

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

2019 ANNUAL GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT



## PROFESSIONAL CERTIFICATION

This 2019 Annual 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).

ACC certifies that all site constituents were below the applicable Georgia maximum contaminant levels (MCL) in all 2019 samples except for the beryllium concentration in the June sample from groundwater monitoring well GWC-27. The occurrence of beryllium was documented as pre-dating waste placement, not attributed to a release from the unit, and is not a statistically significant increase above background.

ATLANTIC COAST CONSULTING, INC.

Evan B. Perry,  
Project Manager  
Date: January 31, 2020



Richard T. Deason, P.E.  
CEO  
Date: January 31, 2020



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## 1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2019 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Wansley CCR Landfill (the 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 sampling events conducted in January, June, and September 2019 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 report serves as both the second semi-annual in accordance with 391-3-4-.10(6)(a) and combined annual monitoring in accordance with 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 Location 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. Also, 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). Localized removal of overburden materials during site development may allow a more direct connection between surface water in the ponds and the underlying bedrock (Golder, 2018). 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 generally flows 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 2019 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with § 257.93. Samples were collected from each well in the certified monitoring system shown on Figure 2 in January, June, and September 2019. The supplemental sampling event of June 2019 was conducted to align future State- and Federal-required groundwater sampling and reporting schedules.

### **2.1 Monitoring Well Installation and Maintenance**

There was no change to the groundwater monitoring system in 2019; the network remained the same as in the 2018 (previous) reporting year. Monitoring well-related activities were limited to the following: visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.

### **2.2 Detection Monitoring Program**

Detection monitoring is performed on a semi-annual basis in accordance with the approved Georgia EPD Solid Waste Permit and the site's D&O Plan. A routine semiannual sampling event was conducted in January 2019 and the data were reported to Georgia EPD in April 2019. To realign future sampling schedules, an additional sampling event was conducted in June 2019. The second semiannual sampling event was conducted in September 2019.

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

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

- A state-modified Appendix I list of detection parameters according to EPD Rules for Solid Waste Management 391-3-4-.14 and the approved D&O plan. The state-modified analyte list includes antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc.

Copies of the analytical data packages for semiannual detection monitoring events are included in Appendix B, Laboratory Analytical and Field Sampling Reports.

### 2.3 Additional Sampling

Surface water sampling was completed at the locations included in the D&O plan during each semiannual monitoring event where flow was occurring at the time of sampling. Samples are analyzed for the same Appendix I and Appendix III list of parameters that is used for groundwater monitoring.

Effluent samples from flue gas desulfurization (FGD) Equipment Units 1 and 2 were collected during each semiannual monitoring event for the list of metals specified in the D&O plan and are discussed in section 3.4.

### 2.4 Alternate Source Demonstrations

There were statistically significant increases (SSIs) above background identified during 2019 that have not previously been addressed by an alternate source demonstration (ASD). In accordance with § 257.94(e)(2), an ASD for Appendix III SSIs identified during the June event and verified in September was prepared and placed into the operating record on November 28, 2019. An addendum to a previous ASD (SCS, 2017) to address SSIs for Appendix I/II metals required under the existing permit was completed on January 24, 2020. The ASDs are provided in Appendix A, Alternate Source Demonstrations.

## 3.0 SAMPLE METHODOLOGY AND ANALYSIS

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

### 3.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater elevations were recorded from each well in the network at the Site. Groundwater elevations recorded during the monitoring events are summarized in Tables 3A, 3B, and 3C, Summary of Groundwater Elevations – January, June, and September 2019, respectively. Groundwater elevation data were used to develop Figures 3, 4, and 5, Potentiometric Surface Contour Map – January, June, and September 2019, respectively. As shown on the figures, a potentiometric high exists near well GWA-28 in the western portion of the site and near well GWA-2 in the eastern portion of the site; groundwater flows semi-radially from these highs. Across the entire site, groundwater generally flows to the east. The groundwater flow patterns observed during the 2019 monitoring events are consistent with historical patterns.

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

#### Equation

$$v = \frac{K (dh/dl)}{\mu} \text{ where: } v = \text{ground water velocity}$$

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

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average permeability based on previous slug test data, and an estimated effective porosity of 0.10. Groundwater flow velocities have been calculated and are tabulated on Tables 4A, 4B, and 4C, Groundwater Flow Velocity Calculations – January, June, and September 2019, respectively. The calculated flow velocities were approximately 0.46, 0.49, and 0.49 feet per day in the January, June, and September 2019 events, respectively.

### 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. A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, oxidation-reduction potential, dissolved oxygen (DO), and temperature) during well purging prior to sampling. Turbidity was measured using a Hach 2100Q portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- $\pm 0.1$  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 Test America, Inc. (TAL) of Pittsburgh, Pennsylvania following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix B.

During the January and June 2019 sampling events, all wells were sampled. During the September 2019 sampling event, GWC-31 purged dry and did not sufficiently recover to allow for sampling of all parameters (only metals collected) all other network wells were sampled.

### 3.3 Laboratory Analyses

Groundwater samples were collected during three groundwater monitoring events in 2019. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix B. Samples were analyzed for Appendix III parameters and metals required by the current state permit during monitoring events performed in 2019.

Analytical data collected in respective 2019 monitoring events (January 2019, June 2019, and September 2019) are summarized in Tables 5A, 5B, and 5C, Summary of Groundwater Analytical Data – January, June, and September 2019, respectively.



Laboratory analyses were performed by TAL. TAL is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, TAL 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 B.

### **3.4 Surface Water and Effluent Sampling**

Surface water samples were collected from SWA-1, SWA-6, SWC-2, SWC-3, SWC-5, and SWC-7 during all three events. Location SWC-8 was sampled during the January event, but was dry in June and September. Locations SWC-4 and SWC-9 were dry during all three events. Results are presented in Tables 6A, 6B, and 6C, Surface Water Analytical Results – January, June, September 2019.

Effluent samples from flue gas desulfurization (FGD) equipment Units 1 and 2 were collected during the January and September events. Unit 2 was not in operation during the June event, therefore only Unit 1 was sampled. Results for the effluent samples are presented on Tables 7A, 7B, and 7C, Effluent Analytical Results – January, June, and September 2019.

Field parameter logs and laboratory analytical reports for surface water and effluent samples collected during each monitoring event are included in Appendix B.

### **3.5 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 was evaluated during data validation and is included in Appendix B.

Groundwater quality data in this report was validated in accordance with US EPA guidance (US EPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post digestions spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using US EPA procedures as guidance (US EPA, 2017). A summary of the data validation is included in Appendix B.

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**

Statistical analysis of groundwater monitoring data was performed following the appropriate certified statistical methodology for the Site.

## 4.1 Statistical Methods

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). To develop the statistical methods, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III parameter and metals required by the existing EPD permit. 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.

The following guidance is also applicable to both the interwell and intrawell statistical methods at the site:

- Statistical analyses are not performed on analytes containing 100 percent non-detects (USEPA, 2009).
- When data contain less than 15 percent non-detects in background, simple substitution of one-half the RL is utilized in the statistical analysis. The RL utilized for non-detects is the Practical Quantitation Limit as reported by the laboratory.
- When data contain between 15 to 50 percent non-detects the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the RL.
- Nonparametric PL are used on data containing greater than 50 percent non-detects.

### 4.1.1 Appendix III Constituents

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PL) combined with a 1-of-2 verification resample plan for Appendix III 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 a statistically significant increase (SSI) is identified. When a re-sample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

A summary of the statistical methodology used at the Site for routine groundwater monitoring is provided in Table 8, Statistical Method Summary.

#### 4.1.2 Permit-Required Appendix I Metals

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 evaluation of state metals. The statistical methodology was revised to an intrawell method following the June monitoring event. The January statistical results are presented in Appendix B.

Statistical tests used to evaluate the 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. Intrawell prediction limits are constructed from historical data within a given well, and the most recent sample is compared to background.

In an intrawell comparison, analytical results from an individual well are compared to historical analytical results in that same well. If data from a sampling event initially exceeds the PL, the resampling strategy may be used to verify the result. 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.

Table 8 includes a summary of the metals included in the EPD permit and the statistical method.

#### 4.2 Statistical Analyses Results for Appendix III Parameters

Analytical data from the 2019 monitoring events in January, June, and September 2019 were statistically analyzed in accordance with the statistical methods. The statistical analysis and comparison to prediction limits are included as Appendix C, Statistical Analyses.

Verified SSIs were not observed during the 2019 monitoring events, or the SSI has been addressed by an ASD.

##### 4.2.1 January 2019 Detection Monitoring Event

Based on the statistical results presented in Appendix C, the following summarizes parameters exhibiting PL exceedances:

- Boron: GWC-14
- Chloride: GWC-14

##### 4.2.2 June 2019 Detection Monitoring Event

Based on the statistical results presented in Appendix C, the following summarizes parameters exhibiting PL Exceedances:

- Boron: GWC-14
- Chloride: GWC-14

- pH: GWC-18
- Sulfate: GWA-28 (upgradient), GWA-29 (upgradient), GWC-5, GWC-12, GWC-17, and GWC-30

The September sampling event was completed within 90 days of receipt of data from the June sampling event and served as verification resampling. The initial exceedances for pH at GWC-18 and sulfate (GWC-17 and GWC-30) were not verified by resampling. The levels for GWA-28 and GWA-29 were also not substantiated by resampling, however these wells are hydraulically upgradient from the unit and exceedances are therefore cannot be considered SSIs. The verified exceedances for GWC-5 and GWC-12 are discussed in Section 4.2.3.

#### 4.2.3 September 2019 Detection Monitoring Event

Based on the statistical results presented in Appendix C, the following summarizes parameters exhibiting PL Exceedances during the September monitoring event:

- Boron: GWC-9 and GWC-14
- Chloride: GWC-9 and GWC-14
- pH: GWC-10
- Sulfate: GWC-5 and GWC-12

The SSIs for boron and chloride are consistent with the 2017 monitoring results and have been previously addressed by an ASD completed in April 2018. The exceedances for sulfate at GWC-5 and GWC-12 are considered verified but are not site related impacts as documented in the ASD included in Appendix A. The exceedance identified for pH was not verified; therefore, it is not an SSI. Verification resampling for pH at GWC-10 was completed in January 2020; a field sampling log documenting the resample is included in Appendix B. A summary of current SSIs for Appendix III parameters and summary of ASDs is provided in the table below.

Location	Constituent	SSI Verification Status	ASD Status for Constituent	Date of ASD
<b>Current SSIs</b>				
GWC-9	Boron	Verified	Completed	4/2018
GWC-14	Boron	Verified	Completed	4/2018
GWC-9	Chloride	Verified	Completed	4/2018
GWC-14	Chloride	Verified	Completed	4/2018
GWC-5	Sulfate	Verified	Completed	11/2019
GWC-12	Sulfate	Verified	Completed	11/2019
<b>Historical Statistical Exceedances Addressed by ASDs (concentrations currently not at SSI levels)</b>				
pH: GWC-10 (12/2018 ASD) and GWC-18 (12/2018 ASD)				
Fluoride: GWC-32 (4/2018 ASD) and GWC-33 (6/2018 ASD)				
TDS: GWC-23 (12/2018 ASD)				

### 4.3 Statistical Analyses Results for Appendix I Permit Parameters

As discussed above, wells and analytes with all data below the reporting limit do not require statistical analysis. A summary of wells exhibiting 100% non-detects is included in Appendix B Results for 2019 are discussed in this section.

#### 4.3.1 January 2019 Detection Monitoring Event

The concentrations of state permit metals exceeded interwell PLs in the following wells:

- Cobalt in GWC-6, GWC-9, and GWC-14,
- Nickel in GWC-7, GWC-9, and GWC-14,
- Silver in GWC-10, and
- Zinc in GWC-32.

The verified SSIs of these constituents were previously addressed in an EPD-approved alternate source demonstration (ASD). (SCS, 2017) or not considered SSIs based on subsequent sample results.

#### 4.3.3 June 2019 Detection Monitoring Event

Following the January event EPD approved the use of intra-well prediction limits for the Appendix I metals. The June event is the first event using the intrawell prediction limits. Based on the statistical results presented in Appendix B, the following summarizes parameters exhibiting initial exceedances of the intrawell statistical analysis in the June monitoring event:

- Barium (GWC-21),
- Beryllium (GWC-32),
- Chromium (GWC-5, GWC-6, GWC-9, GWC-16, GWC-17, GWC-22, GWC-24, and GWC-26),
- Nickel (GWC-8 and GWC-26),
- Vanadium (GWC-17, GWC-18, GWC-19, and GWC-22), and
- Zinc (GWC-14).

As approved by the EPD, verification resampling of these initial intrawell exceedances was conducted during the September sampling event.

#### 4.3.3 September 2019 Detection Monitoring Event

A subset of the June exceedances was not verified by the September results, including: barium (GWC-21), chromium (GWC-17, GWC-22, and GWC-24), nickel (GWC-8 and GWC-26) and vanadium (GWC-17, GWC-18, GWC-19 and GWC-22). Except for beryllium (GWC-32), an additional Pass 3-of-3 resample was not collected and the remaining initial exceedances reported following the June event are now considered verified SSIs.

In addition to the June exceedances that were verified by the September results, initial exceedances were identified following analysis of the September data set (completed

January 17, 2020). Verification resampling of unverified SSIs for barium, chromium, nickel and zinc was not completed since the natural occurrence of these metals in site groundwater was previously documented in an ASD (SCS, 2017). However, as discussed below the exceedances for these metals will be reviewed in a new ASD to ensure the site-wide occurrence of these metals is applicable to the specific wells where the metals are reported.

Initial exceedances for copper, mercury and silver identified in the September data set along with beryllium at GWC-32 were resampled in January 2020. Except for the concentration of copper in the GWC-31 resample, all concentrations were less than relevant prediction limits and are therefore not considered verified SSIs. The resample concentration of copper in the GWC-31 sample again slightly exceeded its prediction limit and is therefore considered a verified exceedance. The laboratory analytical report and field sampling data for the resamples are included in Appendix B. A summary of the January 2020 verification resample results is provided below.

Initial Exceedance	Location	Verified as an SSI by Resample?
Beryllium	GWC-32	No
Copper	GWC-25	No
Copper	GWC-31	Yes*
Mercury	GWC-8	No
Silver	GWC-31	No

\* This SSI and exceedances for barium, chromium, nickel, and zinc that were not resampled will be addressed in accordance with GA EPD rule 391-3-4-.14(23)(c).

Pursuant to GA EPD rule 391-3-4-.14(23)(c), GPC has 90 days from the date of determination of the SSIs (i.e. 90 days from January 17, 2020) to either initiate assessment monitoring or prepare an ASD. The table below summarizes current verified Appendix I SSIs following completion of the September statistical analysis and review of January 2020 verification results. GPC anticipates completing an ASD for these SSIs prior to April 16, 2020.

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

Constituent	Location
	GWC-34
	GWC-35
Copper	GWC-31
Nickel	GWC-6
Zinc	GWC-6
	GWC-14
	GWC-25
	GWC-31
<b>Current and Historical Statistical Exceedances Previously Addressed by ASDs</b>	
Barium: GWC-9 (3/2017 ASD), GWC-11 (3/2017 ASD) Beryllium: GWC-27 (6/2018 ASD) Chromium: GWC-10 (3/2017 ASD), GWC-11 (3/2017 ASD), GWC-16 (3/2017 ASD) GWC-31 (3/2017 ASD) Cobalt: GWC-8 (3/2017 ASD), GWC-9 (3/2017 ASD), GWC-14 (3/2017 ASD) Nickel: GWC-5 (3/2017 ASD), GWC-7 (3/2017 ASD), GWC-9 (3/2017 ASD), GWC- 14 (3/2017 ASD), GWC-25 (3/2017 ASD), GWC-31 (6/2018 ASD) Vanadium: GWC-10 (3/2017 ASD), GWC-22 (3/2017 ASD) Zinc: GWC-32 (3/2017 ASD)	

Pending completion of an ASD, the site will remain in detection monitoring.

## 5.0 MONITORING PROGRAM STATUS

The Site groundwater monitoring network remains in detection monitoring. Apparent statistical exceedances and SSIs of Appendix III parameters have been addressed by ASDs completed by ACC in 2018 and 2019. The 2019 ASD is included in Appendix A. Statistical exceedances for metals required by the existing permit have either been addressed by an ASD completed by SCS in 2017 or will be addressed in an ASD to be completed prior to April 16, 2020.

## 6.0 CONCLUSIONS AND FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data for the Site identified SSIs of Appendix III groundwater monitoring parameters and metals required by the existing EPD permit. Exceedance for Appendix III parameters have been addressed by ASDs. Exceedances for state permit metals have been addressed by previously completed ASDs or are pending completion of an ASD. The site remains in detection monitoring.

The next semiannual monitoring event is planned for the first half of 2020.

## 7.0 REFERENCES

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## TABLES

**Table 1**  
**Monitoring Network Well Summary**

Well	Installation Date (mm/dd/yyyy)	Bottom Depth (ft BTOC)	Bottom Elevation (ft MSL)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (ft MSL)	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. ft MSL indicates feet mean sea level.

**Table 2**  
**Groundwater Sampling Event Summary**

Well	Hydraulic Location	Jan. 17 - Feb. 1, 2019	Jun.24-27, 2019	Sept. 9-17, 2019
Purpose of Sampling Event		First Semiannual	Supplemental	Second Semiannual
GWA-1	Upgradient	D-04	D-05	D-06
GWA-2	Upgradient	D-04	D-05	D-06
GWA-3	Upgradient	D-04	D-05	D-06
GWA-4	Upgradient	D-04	D-05	D-06
GWC-5	Downgradient	D-04	D-05	D-06
GWC-6	Downgradient	D-04	D-05	D-06
GWC-7	Downgradient	D-04	D-05	D-06
GWC-8	Downgradient	D-04	D-05	D-06
GWC-9	Downgradient	D-04	D-05	D-06
GWC-10	Downgradient	D-04	D-05	D-06
GWC-11	Downgradient	D-04	D-05	D-06
GWC-12	Downgradient	D-04	D-05	D-06
GWC-13	Downgradient	D-04	D-05	D-06
GWC-14	Downgradient	D-04	D-05	D-06
GWC-15	Downgradient	D-04	D-05	D-06
GWC-16	Downgradient	D-04	D-05	D-06
GWC-17	Downgradient	D-04	D-05	D-06
GWC-18	Downgradient	D-04	D-05	D-06
GWC-19	Downgradient	D-04	D-05	D-06
GWC-20	Downgradient	D-04	D-05	D-06
GWC-21	Downgradient	D-04	D-05	D-06
GWC-22	Downgradient	D-04	D-05	D-06
GWC-23	Downgradient	D-04	D-05	D-06
GWC-24	Downgradient	D-04	D-05	D-06
GWC-25	Downgradient	D-04	D-05	D-06
GWC-26	Downgradient	D-04	D-05	D-06
GWC-27	Downgradient	D-04	D-05	D-06
GWA-28	Upgradient	D-04	D-05	D-06
GWA-29	Upgradient	D-04	D-05	D-06
GWC-30	Downgradient	D-04	D-05	D-06
GWC-31	Downgradient	D-04	D-05	D-06
GWC-32	Downgradient	D-04	D-05	D-06
GWC-33	Downgradient	D-04	D-05	D-06
GWC-34	Downgradient	D-04	D-05	D-06
GWC-35	Downgradient	D-04	D-05	D-06

Notes:

1. D-XX = Detection Event Number.
2. D-01 through D-03 were performed in 2017-2018.

**Table 3A**  
**Groundwater Elevations**  
**January 2019**

Well ID	TOC Elevation (ft MSL)	Depth-to- Water (ft BTOC)	Groundwater Elevation (ft MSL)
GWA-1	778.00	15.26	762.74
GWA-2	816.00	39.82	776.18
GWA-3	789.98	22.94	767.04
GWA-4	779.39	22.33	757.06
GWC-5	755.60	13.95	741.65
GWC-6	749.78	16.04	733.74
GWC-7	730.97	7.75	723.22
GWC-8	723.30	8.46	714.84
GWC-9	712.56	7.01	705.55
GWC-10	709.47	11.28	698.19
GWC-11	700.96	5.79	695.17
GWC-12	724.22	26.75	697.47
GWC-13	693.75	5.57	688.18
GWC-14	692.81	9.10	683.71
GWC-15	687.57	5.82	681.75
GWC-16	690.12	9.73	680.39
GWC-17	704.34	19.38	684.96
GWC-18	700.20	12.48	687.72
GWC-19	700.86	6.31	694.55
GWC-20	705.63	4.47	701.16
GWC-21	721.07	11.33	709.74
GWC-22	744.14	22.81	721.33
GWC-23	773.47	33.23	740.24
GWC-24	789.98	38.32	751.66
GWC-25	812.11	47.17	764.94
GWC-26	785.42	26.81	758.61
GWC-27	814.07	39.89	774.18
GWA-28	849.03	24.11	824.92
GWA-29	834.70	40.56	794.14
GWC-30	791.03	23.46	767.57
GWC-31	797.54	28.12	769.42
GWC-32	785.22	24.36	760.86
GWC-33	760.03	13.31	746.72
GWC-34	735.09	4.27	730.82
GWC-35	730.89	7.90	722.99

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Depths to water measured January 16, 2019.

**Table 3B**  
**Summary of Groundwater Elevations**  
**June 2019**

Well ID	TOC Elevation (ft MSL)	Depth-to-Water (ft BTOC)	Groundwater Elevation (ft MSL)
GWA-1	778.00	18.45	759.55
GWA-2	816.00	40.53	775.47
GWA-3	789.98	21.92	768.06
GWA-4	779.39	24.26	755.13
GWC-5	755.60	16.92	738.68
GWC-6	749.78	18.00	731.78
GWC-7	730.97	7.74	723.23
GWC-8	723.30	9.17	714.13
GWC-9	712.56	7.52	705.04
GWC-10	709.47	11.37	698.10
GWC-11	700.96	6.14	694.82
GWC-12	724.22	26.96	697.26
GWC-13	693.75	5.92	687.83
GWC-14	692.81	9.53	683.28
GWC-15	687.57	6.48	681.09
GWC-16	690.12	10.07	680.05
GWC-17	704.34	20.86	683.48
GWC-18	700.20	14.05	686.15
GWC-19	700.86	8.48	692.38
GWC-20	705.63	5.15	700.48
GWC-21	721.07	13.46	707.61
GWC-22	744.14	22.15	721.99
GWC-23	773.47	33.25	740.22
GWC-24	789.98	37.74	752.24
GWC-25	812.11	48.15	763.96
GWC-26	785.42	25.37	760.05
GWC-27	814.07	39.77	774.30
GWA-28	849.03	24.99	824.04
GWA-29	834.70	44.05	790.65
GWC-30	791.03	26.07	764.96
GWC-31	797.54	30.28	767.26
GWC-32	785.22	24.98	760.24
GWC-33	760.03	13.58	746.45
GWC-34	735.09	4.65	730.44
GWC-35	730.89	8.37	730.89

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Depths to water measured June 24, 2019.

**Table 3C**  
**Summary of Groundwater Elevations**  
**September 2019**

Well ID	TOC Elevation (ft MSL)	Depth-to-Water (ft BTOC)	Groundwater Elevation (ft MSL)
GWA-1	778.00	23.01	754.99
GWA-2	816.00	43.38	772.62
GWA-3	789.98	23.86	766.12
GWA-4	779.39	23.88	755.51
GWC-5	755.60	19.61	735.99
GWC-6	749.78	19.58	730.20
GWC-7	730.97	8.67	722.30
GWC-8	723.30	10.31	712.99
GWC-9	712.56	8.04	704.52
GWC-10	709.47	12.30	697.17
GWC-11	700.96	7.33	693.63
GWC-12	724.22	26.96	697.26
GWC-13	693.75	6.80	686.95
GWC-14	692.81	10.15	682.66
GWC-15	687.57	7.40	680.17
GWC-16	690.12	12.08	678.04
GWC-17	704.34	22.09	682.25
GWC-18	700.20	17.21	682.99
GWC-19	700.86	11.88	688.98
GWC-20	705.63	7.55	698.08
GWC-21	721.07	17.81	703.26
GWC-22	744.14	25.27	718.87
GWC-23	773.47	35.96	737.51
GWC-24	789.98	41.42	748.56
GWC-25	812.11	49.67	762.44
GWC-26	785.42	28.13	757.29
GWC-27	814.07	43.19	770.88
GWA-28	849.03	26.05	822.98
GWA-29	834.70	47.02	787.68
GWC-30	791.03	28.39	762.64
GWC-31	797.54	34.40	763.14
GWC-32	785.22	25.82	759.40
GWC-33	760.03	13.75	746.28
GWC-34	735.09	5.20	729.89
GWC-35	730.89	8.63	722.26

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Depths to water measured September 9, 2019.

**Table 4A**  
**CALCULATED GROUNDWATER FLOW RATE**  
**January 2019**

Equation

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

k = hydraulic conductivity  
i = hydraulic gradient  
P<sub>e</sub> = effective porosity

Values Used in Calculation

Value			Source
k =	4.1E-04 1.16	cm/sec ft/day	See note 1.
i <sub>1</sub> =	0.035	unitless	from GWA-4 to GWC-5
i <sub>2</sub> =	0.047	unitless	from GWA-1 to GWC-19
i <sub>3</sub> =	0.037	unitless	from GWA-2 to GWC-16
i =	0.040	unitless	Average (i <sub>1</sub> , i <sub>2</sub> , i <sub>3</sub> )
P <sub>e</sub> =	0.10	unitless	See note 1.

Calculation

$$v = \frac{(1.16) (0.04)}{0.10} \quad v = 0.46 \text{ ft/day}$$

Notes

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

**Table 4B**  
**Groundwater Flow Velocity Calculations**  
**June 2019**

Equation

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

where: v = ground water velocity  
K = hydraulic conductivity  
i = hydraulic gradient  
P<sub>e</sub> = effective porosity

Values Used in Calculation

Value			Source
K =	4.1E-04 1.16	cm/sec ft/day	See note 1.
i <sub>1</sub> =	0.044	unitless	from GWA-4 to GWC-5 from GWA-1 to GWC-19 from GWA-2 to GWC-16
i <sub>2</sub> =	0.046	unitless	
i <sub>3</sub> =	0.037	unitless	
i =	0.042	unitless	Average (i <sub>1</sub> , i <sub>2</sub> , i <sub>3</sub> )
P <sub>e</sub> =	0.10	unitless	See note 1.

Calculation

$$v = \frac{(1.16)(0.042)}{0.10} \qquad v = 0.49 \text{ ft/day}$$

Notes

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



**Table 4C**  
**Groundwater Flow Velocity Calculations**  
**September 2019**

Equation

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

where: v = ground water velocity  
K = hydraulic conductivity  
i = hydraulic gradient  
P<sub>e</sub> = effective porosity

Values Used in Calculation

Value			Source
K =	4.1E-04 1.16	cm/sec ft/day	See note 1.
i <sub>1</sub> =	0.044	unitless	from GWA-4 to GWC-5 from GWA-1 to GWC-19 from GWA-2 to GWC-16
i <sub>2</sub> =	0.045	unitless	
i <sub>3</sub> =	0.036	unitless	
i =	0.042	unitless	Average (i <sub>1</sub> , i <sub>2</sub> , i <sub>3</sub> )
P <sub>e</sub> =	0.10	unitless	See note 1.

Calculation

$$v = \frac{(1.16)(0.042)}{0.10} \qquad v = 0.49 \text{ ft/day}$$

Notes

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

**Table 5A**  
**Summary of Groundwater Analytical Data**  
**January 2019**

Substance	MCL/ (SMCL)	GWA-1	GWA-2	GWA-3	GWA-4	GWA-28	GWA-29	GWC-5	GWC-6
		1/17/2019	1/17/2019	1/18/2019	1/17/2019	1/21/2019	1/18/2019	1/30/2019	1/30/2019
Appendix III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	0.74	3.5	10	22	3.0	4.2	34
	Chloride	(250)	1.8	3.7	19	11	1.2	1.3	15
	Fluoride	4	ND	ND	ND (0.028 J)	ND (0.060 J)	1.6	2.0	ND (0.11 J)
	Sulfate	(250)	ND (0.50 J)	2.5	34	9.4	1.6	6.4	31
	TDS	(500)	20	46	140	160	58	81	220
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND (0.00040 J)
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND
	Barium	2	0.010	0.010	0.033	0.12	0.00088	ND (0.00070 J)	0.016
	Beryllium	0.004	ND (0.000074 J)	ND	ND	ND	ND (0.00041 J)	ND (0.0021 J)	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0012 J)	ND (0.0016 J)	ND (0.0017 J)	ND (0.0013 J)	ND (0.0014 J)	ND (0.0020 J)	ND (0.0021 J)
	Cobalt	N/R	ND (0.00033 J)	ND (0.00018 J)	ND (0.00011 J)	0.0038	ND	ND	ND (0.00068 J)
	Copper	1.3	ND	ND	ND	ND	ND	0.0059	ND
	Lead	0.015	ND	ND	ND (0.00011 J)	ND	ND	ND	ND (0.00014 J)
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	ND (0.00094 J)	0.0011	ND (0.00087 J)	0.0017	ND (0.00040 J)	0.0022	0.0032
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	ND	ND	ND (0.00061 J)	ND (0.00016 J)
	Thallium	0.002	ND (0.000066 J)	ND	ND	ND	ND	ND	ND
Vanadium	N/A	0.0012	0.0016	0.0019	0.0016	0.0012	0.0015	0.0031	
Zinc	(5)	ND (0.0037 J)	ND (0.0024 J)	0.0088	ND	0.0065	0.022	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced)
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL)
5. 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.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV

**Table 5A**  
**Summary of Groundwater Analytical Data**  
**January 2019**

Substance	MCL/ (SMCL)	GWC-7	GWC-8	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13	GWC-14	
		1/21/2019	1/22/2019	1/22/2019	1/31/2019	1/24/2019	1/25/2019	1/22/2019	1/22/2019	
Appendix III	Boron	N/R	ND	ND	ND (0.038 J)	ND	ND	ND (0.036 J)	ND	0.63
	Calcium	N/R	52	22	11	15	3.8	46	4.4	25
	Chloride	(250)	17	2.8	2.3	4.0	ND (0.94 J)	23	1.2	80
	Fluoride	4	0.22	ND (0.062 J)	ND (0.065 J)	0.78	ND (0.076 J)	0.21	ND (0.10 J)	ND (0.057 J)
	Sulfate	(250)	64	12	12	20	ND (0.77 J)	25	2.8	13
	TDS	(500)	340	86	68	150	ND	170	42	200
Required by GWMP	Antimony	0.006	ND	ND	ND	ND (0.00048 J)	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND (0.00059 J)	ND	ND (0.00065 J)	ND	ND	ND (0.00041 J)
	Barium	2	0.083	0.040	0.11	0.025	0.090	0.024	0.0029	0.15
	Beryllium	0.004	ND	ND (0.000058 J)	ND (0.000079 J)	ND	ND (0.00015 J)	ND	ND	ND (0.00040 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND (0.00021 J)
	Chromium	0.1	ND (0.0012 J)	ND (0.0014 J)	0.0027	ND (0.0018 J)	0.0030	ND (0.0011 J)	ND (0.0013 J)	ND (0.0013 J)
	Cobalt	N/R	ND (0.00051 J)	0.013	0.028	0.0063	ND (0.0015 J)	ND (0.00032 J)	ND	0.22
	Copper	1.3	ND	ND	ND	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND (0.00013 J)	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	0.0077	0.0025	0.0080	0.0018	ND (0.00035 J)	ND	ND (0.00033 J)	0.014
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	0.0055	ND (0.00033 J)	ND (0.00017 J)	ND	ND
	Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND (0.00047 J)
Vanadium	N/A	0.0030	0.0015	0.0014	0.0015	0.0032	ND	0.0015	ND	
Zinc	(5)	ND	ND	ND	ND (0.0039 J)	ND	ND	ND	0.0094	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced)
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL)
5. 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.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV

**Table 5A**  
**Summary of Groundwater Analytical Data**  
**January 2019**

Substance	MCL/ (SMCL)	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21	GWC-22
		1/22/2019	1/25/2019	1/24/2019	1/28/2019	1/28/2019	1/28/2019	1/24/2019	1/24/2019
Appendix III	Boron	N/R	0.10	ND	ND	ND	ND	ND	ND
	Calcium	N/R	13	7.0	7.7	7.0	9.9	8.6	4.1
	Chloride	(250)	9.1	1.5	1.2	1.7	2.2	2.0	4.1
	Fluoride	4	ND (0.071 J)	ND (0.027 J)	ND	ND	ND	ND	ND
	Sulfate	(250)	2.0	ND (0.66 J)	ND (0.88 J)	ND (0.69 J)	1.2	ND (0.90 J)	ND
	TDS	(500)	79	51	82	77	69	95	42
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND
	Barium	2	0.012	0.019	0.016	0.037	0.12	0.033	0.046
	Beryllium	0.004	ND	ND (0.000072 J)	ND	ND	ND (0.00011 J)	ND	ND (0.000079 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0013 J)	0.0038	ND (0.0014 J)	ND (0.0012 J)	ND	ND (0.0011 J)	ND (0.0012 J)
	Cobalt	N/R	ND (0.00016 J)	ND (0.00013 J)	ND	ND	ND (0.00043 J)	ND	0.0028
	Copper	1.3	0.0030	ND	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND (0.00016 J)	ND (0.00011 J)	ND (0.00014 J)	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	ND	ND	ND	ND	ND (0.00090 J)	ND	ND (0.00051 J)
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND (0.00035 J)	ND (0.00047 J)	ND	ND	ND	ND (0.00063 J)
	Thallium	0.002	ND	ND	ND	ND	ND	ND	ND
Vanadium	N/A	0.0012	0.0052	0.0027	0.0015	ND	0.0019	ND	
Zinc	(5)	ND	ND	ND	ND (0.0033 J)	ND (0.0049 J)	0.014	ND (0.0034 J)	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced)
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL)
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9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV

**Table 5A**  
**Summary of Groundwater Analytical Data**  
**January 2019**

Substance	MCL/ (SMCL)	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
		1/25/2019	1/31/2019	1/24/2019	1/24/2019	1/24/2019	1/30/2019	1/31/2019	1/30/2019
Appendix III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	3.7	0.39	5.4	1.9	0.71	3.4	11
	Chloride	(250)	2.0	4.1	8.7	3.1	1.1	1.2	1.3
	Fluoride	4	ND	ND	ND	ND	ND (0.039 J)	ND (0.10 J)	1.3
	Sulfate	(250)	ND (0.38 J)	ND	1.4	ND (0.57 J)	ND (0.39 J)	1.2	10
	TDS	(500)	ND	30	54	34	ND	53	160
Required by GWMP	Antimony	0.006	ND	ND (0.00048 J)	ND	ND	ND	ND (0.00040 J)	ND (0.00042 J)
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND
	Barium	2	0.0069	0.011	0.030	0.036	0.0090	0.013	ND (0.0016 J)
	Beryllium	0.004	ND	ND	ND (0.000067 J)	ND (0.000081 J)	ND (0.00039 J)	ND	ND (0.00057 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0017 J)	ND (0.0022 J)	0.0026	ND (0.0018 J)	ND (0.0015 J)	ND (0.0018 J)	0.0031
	Cobalt	N/R	ND (0.000084 J)	0.0029	ND (0.0014 J)	ND (0.00012 J)	ND (0.0019 J)	ND	ND
	Copper	1.3	ND	ND (0.00063 J)	0.0030	ND (0.0017 J)	ND	ND	ND (0.00064 J)
	Lead	0.015	ND	ND (0.00013 J)	ND (0.00021 J)	ND (0.000098 J)	ND (0.000098 J)	ND	ND (0.00015 J)
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	ND (0.00044 J)	0.0018	0.0027	ND (0.00087 J)	ND (0.00035 J)	ND	0.0011
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND (0.00039 J)	ND (0.00069 J)	ND (0.00034 J)	ND (0.00019 J)	ND (0.00061 J)	ND	ND (0.00036 J)
	Thallium	0.002	ND	ND	ND	ND	ND (0.00020 J)	ND	ND
Vanadium	N/A	0.0012	0.0015	0.0018	0.0013	ND	0.0021	0.0014	
Zinc	(5)	ND	0.0060	0.013	ND	ND (0.0041 J)	ND	0.0080	

Notes:

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3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
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5. 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.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule
7. TDS indicates total dissolved solids.
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9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV

**Table 5A**  
**Summary of Groundwater Analytical Data**  
**January 2019**

Substance	MCL/ (SMCL)	GWC-33	GWC-34	GWC-35
		1/30/2019	1/28/2019	1/21/2019
Appendix III	Boron	N/R	ND	ND
	Calcium	N/R	17	2.9
	Chloride	(250)	2.2	1.3
	Fluoride	4	2.3	ND (0.19 J)
	Sulfate	(250)	14	1.6
	TDS	(500)	100	33
Required by GWMP	Antimony	0.006	ND (0.00055 J)	ND
	Arsenic	0.01	ND	ND
	Barium	2	0.021	0.013
	Beryllium	0.004	ND (0.00036 J)	ND (0.000061 J)
	Cadmium	0.005	ND	ND
	Chromium	0.1	0.0026	ND (0.00076 J)
	Cobalt	N/R	ND (0.00012 J)	ND
	Copper	1.3	ND	ND
	Lead	0.015	ND	ND (0.00022 J)
	Mercury	0.002	ND	ND
	Nickel	0.1	ND (0.00054 J)	ND (0.00047 J)
	Selenium	0.05	ND	ND
	Silver	N/A	ND (0.00035 J)	ND
	Thallium	0.002	ND	ND
	Vanadium	N/A	0.0014	ND
Zinc	(5)	0.0096	ND (0.0031 J)	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced)
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL)
5. 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.
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7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated
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**Table 5B**  
**Summary of Groundwater Analytical Data**  
**June 2019**

Substance	MCL/ (SMCL)	GWA-1	GWA-2	GWA-3	GWA-4	GWA-28	GWA-29	GWC-5	GWC-6	
		6/24/2019	6/24/2019	6/25/2019	6/24/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	
Appendix III	Boron	N/R	ND (0.034 J)	ND	ND	ND	ND	ND	ND (0.045 J)	ND (0.044 J)
	Calcium	N/R	0.76	5.0	10	27	3.0	4.8	39	12
	Chloride	(250)	1.7	6.1	ND	11	1.3	24	10	6.0
	Fluoride	4	ND (0.031 J)	ND (0.032 J)	ND (0.030 J)	ND (0.080 J)	1.9	ND (0.034 J)	ND (0.081 J)	ND (0.059 J)
	Sulfate	(250)	ND	ND (0.91 J)	ND	10	2.2	26	31	9.3
	TDS	(500)	21	72	130	170	88	97	120	41
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND (0.00054 J)	ND (0.00043 J)	ND	ND (0.00032 J)	ND	ND	ND	ND
	Barium	2	ND (0.0096 J)	0.011	0.082	0.12	ND	ND	0.020	0.045
	Beryllium	0.004	ND (0.00029 J)	ND (0.00023 J)	ND	ND	ND (0.00039 J)	0.0023	ND	ND
	Cadmium	0.005	ND	ND	ND (0.00014 J)	ND	ND	ND	ND	ND
	Chromium	0.1	0.0042	0.0022	0.0027	0.0022	0.0024	0.0030	0.0029	0.0027
	Cobalt	N/R	ND (0.00019 J)	ND (0.00019 J)	ND (0.00042 J)	0.0060	ND	ND (0.00012 J)	0.0054	0.012
	Copper	1.3	ND	ND (0.0011 J)	0.0040	ND	ND	0.0085	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND (0.00029 J)	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	ND (0.00095 J)	0.0013	0.0021	0.0022	ND (0.00088 J)	0.0028	0.0051	0.0052
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	ND	ND	0.0017	ND	ND
	Thallium	0.002	ND (0.00020 J)	ND	ND	ND	ND	ND	ND	ND
Vanadium	N/A	0.0028	0.0018	0.0028	0.0020	0.0025	0.0023	0.0033	0.0016	
Zinc	(5)	ND (0.0048 J)	ND (0.0046 J)	0.014	ND (0.0036 J)	0.011	0.041	ND	ND (0.0033 J)	

Notes:

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**Table 5B**  
**Summary of Groundwater Analytical Data**  
**June 2019**

Substance	MCL/ (SMCL)	GWC-7	GWC-8	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13	GWC-14	
		6/25/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/25/2019	6/25/2019	
Appendix III	Boron	N/R	ND	ND	ND (0.068 J)	ND (0.053 J)	ND	ND (0.057 J)	ND	0.71
	Calcium	N/R	50	29	14	16	11	43	4.3	26
	Chloride	(250)	16	3.9	7.7	4.2	3.2	21	1.3	82
	Fluoride	4	0.21	ND (0.055 J)	ND (0.066 J)	0.68	ND (0.096 J)	ND (0.16 J)	ND (0.084 J)	ND (0.054 J)
	Sulfate	(250)	59	14	11	13	ND (0.47 J)	25	3.0	13
	TDS	(500)	400	200	160	46	87	140	56	280
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND (0.00035 J)	ND (0.00045 J)	ND (0.00086 J)	ND	0.0015	ND	ND	ND (0.00048 J)
	Barium	2	0.075	0.060	0.18	0.020	0.26	0.020	ND (0.0069 J)	0.16
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND (0.00041 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND (0.00021 J)
	Chromium	0.1	0.0021	0.0024	0.0048	0.0021	0.0041	0.0021	0.0022	0.0023
	Cobalt	N/R	0.0039	0.035	0.043	0.0051	0.0037	ND (0.00039 J)	ND	0.23
	Copper	1.3	ND	ND (0.00074 J)	ND	ND (0.00064 J)	ND	ND	ND	ND (0.00080 J)
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	0.010	0.0053	0.010	0.0014	ND	ND	ND (0.00068 J)	0.016
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND (0.00046 J)
Vanadium	N/A	0.0035	0.0026	0.0020	0.0014	0.0035	0.0013	0.0021	0.0014	
Zinc	(5)	ND	ND (0.0043 J)	0.0050	ND (0.0044 J)	ND	ND	ND	0.014	

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**Table 5B**  
**Summary of Groundwater Analytical Data**  
**June 2019**

Substance	MCL/ (SMCL)	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21	GWC-22	
		6/25/2019	6/25/2019	6/25/2019	6/27/2019	6/26/2019	6/25/2019	6/25/2019	6/25/2019	
Appendix III	Boron	N/R	ND (0.066 J)	ND	ND	ND	ND (0.036 J)	ND	ND	ND
	Calcium	N/R	9.8	7.0	8.4	7.0	7.3	9.0	5.0	12
	Chloride	(250)	5.8	1.5	1.2	1.6	1.5	1.9	3.5	1.7
	Fluoride	4	ND (0.068 J)	ND (0.052 J)	ND (0.051 J)	ND (0.046 J)	ND (0.046 J)	ND (0.049 J)	ND (0.032 J)	ND (0.052 J)
	Sulfate	(250)	2.0	ND (0.84 J)	1.1	ND (0.85 J)	ND (0.88 J)	ND (0.99 J)	ND	ND (0.76 J)
	TDS	(500)	99	91	110	77	ND	100	63	110
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND (0.00038 J)	ND	ND	ND	ND (0.00037 J)	ND
	Barium	2	ND (0.0096 J)	0.018	0.017	0.035	0.077	0.034	0.046	0.026
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND (0.00017 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND (0.00057 J)
	Chromium	0.1	0.0022	0.0045	0.0042	0.0022	0.0023	0.0023	0.0021	0.0030
	Cobalt	N/R	ND (0.00012 J)	ND	ND	ND	ND (0.00042 J)	ND (0.00012 J)	0.0028	ND
	Copper	1.3	ND	ND	ND	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	ND (0.00031 J)	ND (0.00067 J)	ND (0.00092 J)	ND	ND (0.00051 J)	ND (0.00048 J)	ND (0.00085 J)	ND (0.00031 J)
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	N/A	0.0019	0.0056	0.0050	0.0031	0.0023	0.0038	0.0021	0.0092	
Zinc	(5)	ND	ND	ND	ND	ND (0.0038 J)	ND	ND (0.0039 J)	ND	

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**Table 5B**  
**Summary of Groundwater Analytical Data**  
**June 2019**

Substance	MCL/ (SMCL)	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32	
		6/26/2019	6/26/2019	6/25/2019	6/25/2019	6/26/2019	6/27/2019	6/26/2019	6/27/2019	
Appendix III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND	
	Calcium	N/R	3.6	ND (0.34 J)	3.5	1.8	3.7	3.6	11	7.6
	Chloride	(250)	2.0	4.4	9.0	3.0	1.1	1.4	1.5	1.1
	Fluoride	4	ND (0.042 J)	ND (0.040 J)	ND (0.033 J)	ND (0.047 J)	0.85	ND (0.073 J)	1.3	2.0
	Sulfate	(250)	ND (0.64 J)	ND (0.71 J)	1.6	ND (0.78 J)	3.2	1.7	9.9	9.9
	TDS	(500)	44	ND	58	49	ND	30	110	47
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	2	ND (0.0041 J)	ND (0.0093 J)	0.032	0.038	0.017	ND (0.0071 J)	ND	ND
	Beryllium	0.004	ND	ND (0.00017 J)	ND	ND	0.0056	ND	ND (0.00084 J)	0.0017
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	0.0023	0.0027	0.0030	0.0030	0.0022	0.0025	0.0037	0.0022
	Cobalt	N/R	ND	0.0010	0.0010	ND (0.00017 J)	0.0023	ND	ND	ND (0.00017 J)
	Copper	1.3	ND	ND (0.00094 J)	0.0029	0.0020	ND	ND	ND (0.0019 J)	ND
	Lead	0.015	ND	ND (0.00016 J)	ND	ND	ND	ND	ND (0.00022 J)	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	ND	0.0016	0.0021	0.0031	ND	ND	ND (0.00034 J)	ND (0.00059 J)
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium	0.002	ND	ND	ND	ND	ND (0.00019 J)	ND	ND	ND
Vanadium	N/A	0.0019	0.0014	0.0019	0.0024	0.0011	0.0029	0.0015	0.0021	
Zinc	(5)	ND	0.0062	0.010	ND (0.0045 J)	ND	ND	0.011	0.082	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced)
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL)
5. 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.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV

**Table 5B**  
**Summary of Groundwater Analytical Data**  
**June 2019**

Substance	MCL/ (SMCL)	GWC-33	GWC-34	GWC-35
		6/26/2019	6/26/2019	6/26/2019
<b>Appendix III</b>	<b>Boron</b>	N/R	ND	ND
	<b>Calcium</b>	N/R	19	2.8
	<b>Chloride</b>	(250)	2.2	1.2
	<b>Fluoride</b>	4	2.4	ND (0.11 J)
	<b>Sulfate</b>	(250)	10	1.9
	<b>TDS</b>	(500)	100	61
<b>Required by GWMP</b>	<b>Antimony</b>	0.006	ND	ND
	<b>Arsenic</b>	0.01	ND	ND
	<b>Barium</b>	2	ND (0.0057 J)	0.011
	<b>Beryllium</b>	0.004	ND (0.00027 J)	ND (0.00032 J)
	<b>Cadmium</b>	0.005	ND	ND
	<b>Chromium</b>	0.1	0.0022	0.0022
	<b>Cobalt</b>	N/R	0.0025	ND
	<b>Copper</b>	1.3	ND	ND
	<b>Lead</b>	0.015	ND	ND
	<b>Mercury</b>	0.002	ND	ND
	<b>Nickel</b>	0.1	ND (0.00068 J)	ND (0.00047 J)
	<b>Selenium</b>	0.05	ND	ND
	<b>Silver</b>	N/A	ND	ND
	<b>Thallium</b>	0.002	ND (0.00020 J)	ND (0.00014 J)
	<b>Vanadium</b>	N/A	0.0017	0.0020
<b>Zinc</b>	(5)	0.0056	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced)
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL)
5. 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.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV

**Table 5C**  
**Summary of Groundwater Analytical Data**  
**September 2019**

Substance	MCL/ (SMCL)	GWA-1	GWA-2	GWA-3	GWA-4	GWA-28	GWA-29	GWC-5	GWC-6
		9/9/2019	9/10/2019	9/11/2019	9/10/2019	9/10/2019	9/10/2019	9/12/2019	9/12/2019
Appendix III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	0.80	4.2	11	31	2.9	4.8	31
	Chloride	(250)	1.9	5.1	22	17	1.3	1.3	13
	Fluoride	4	ND	ND	ND (0.033 J)	ND (0.091 J)	1.8	2.6	ND (0.078 J)
	Sulfate	(250)	ND	ND (0.90 J)	43	11	1.3	9.2	34
	TDS	(500)	16	52	130	190	86	120	230
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND
	Barium	2	0.012	0.015	0.094	0.16	ND (0.0022 J)	ND (0.0033 J)	0.030
	Beryllium	0.004	ND (0.00019 J)	ND	ND (0.00030 J)	ND	ND (0.00049 J)	0.0023	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0017 J)	ND (0.0019 J)	ND	ND	ND (0.0018 J)	ND (0.0019 J)	0.0033
	Cobalt	N/R	ND (0.00019 J)	ND (0.00029 J)	ND (0.00017 J)	0.0062	ND	ND (0.000089 J)	0.0062
	Copper	1.3	ND	ND (0.0014 J)	ND (0.0015 J)	ND	ND	0.0074	ND
	Lead	0.015	ND	ND (0.00014 J)	ND (0.00017 J)	ND	ND	ND (0.00028 J)	ND
	Mercury	0.002	ND	ND	ND	ND	ND	0.00021	ND
	Nickel	0.1	ND (0.00099 J)	0.0014	0.0022	0.0017	ND (0.00047 J)	0.0024	0.0085
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	ND	ND	0.0015	ND
	Thallium	0.002	ND (0.00015 J)	ND	ND	ND	ND	ND	ND
Vanadium	N/A	ND	0.0011	0.0014	ND	0.0012	ND	0.0031	
Zinc	(5)	0.0064	0.0064	0.020	0.0060	0.010	0.031	0.0067	

Notes:

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3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL)
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6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV
11. NS Indicates not sampled due to insufficient water column

**Table 5C**  
**Summary of Groundwater Analytical Data**  
**September 2019**

Substance	MCL/ (SMCL)	GWC-7	GWC-8	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13	GWC-14	
		9/10/2019	9/10/2019	9/16/2019	9/17/2019	9/16/2019	9/11/2019	9/12/2019	9/12/2019	
Appendix III	Boron	N/R	ND	ND	0.19	ND	ND	ND (0.042 J)	ND	1.8
	Calcium	N/R	50	30	19	7.2	14	42	4.2	52
	Chloride	(250)	15	6.0	29	3.6	3.1	23	1.0	190
	Fluoride	4	0.28	ND (0.10 J)	ND (0.062 J)	0.29	ND (0.12 J)	0.17	ND (0.065 J)	ND
	Sulfate	(250)	52	14	16	12	ND	26	2.2	22
	TDS	(500)	380	220	190	120	190	220	73	470
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND (0.00043 J)	ND (0.00069 J)	ND	0.0018	ND (0.00036 J)	ND	ND
	Barium	2	0.086	0.066	0.18	0.026	0.35	0.022	ND (0.0054 J)	0.32
	Beryllium	0.004	ND	ND	ND	ND	ND	ND (0.00024 J)	ND	ND (0.00092 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND (0.00052 J)
	Chromium	0.1	ND	ND (0.0018 J)	0.0027	ND	0.0035	0.0023	0.0027	0.0020
	Cobalt	N/R	0.0035	0.041	0.042	0.0060	0.0034	ND (0.00017 J)	ND	0.013
	Copper	1.3	ND	ND (0.00065 J)	ND	ND (0.00070 J)	ND	ND (0.00096 J)	ND	ND (0.0017 J)
	Lead	0.015	ND	ND	ND	ND (0.00014 J)	ND	ND	ND	ND
	Mercury	0.002	ND	0.00040	ND	ND	ND	ND	ND	ND
	Nickel	0.1	0.0089	0.0026	0.0091	0.0013	ND	ND (0.00088 J)	ND (0.00055 J)	0.016
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND (0.0032 J)
	Silver	N/A	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND (0.00047 J)
Vanadium	N/A	0.0024	0.0014	0.0014	ND	0.0035	0.0011	0.0015	0.0012	
Zinc	(5)	0.0063	0.0051	ND (0.0049 J)	0.013	0.0050	0.0056	0.0085	0.019	

Notes:

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3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L)
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9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV
11. NS Indicates not sampled due to insufficient water column

**Table 5C**  
**Summary of Groundwater Analytical Data**  
**September 2019**

Substance	MCL/ (SMCL)	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21	GWC-22
		9/17/2019	9/11/2019	9/11/2019	9/11/2019	9/12/2019	9/11/2019	9/11/2019	9/10/2019
Appendix III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	7.7	7.1	8.0	7.0	5.4	8.4	4.1
	Chloride	(250)	2.8	1.6	1.1	1.5	1.3	1.9	2.9
	Fluoride	4	ND (0.071 J)	ND (0.038 J)	ND (0.043 J)	ND (0.036 J)	ND (0.031 J)	ND (0.039 J)	ND
	Sulfate	(250)	1.4	ND (0.60 J)	ND (0.99 J)	ND (0.70 J)	ND (0.39 J)	1.1	ND (0.42 J)
	TDS	(500)	75	85	92	64	87	74	16
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND (0.00047 J)	ND
	Barium	2	ND (0.0072 J)	0.020	0.018	0.040	0.058	0.035	0.028
	Beryllium	0.004	ND	ND (0.00024 J)	ND (0.00018 J)	ND (0.00019 J)	ND	ND	ND (0.00020 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND (0.00018 J)
	Chromium	0.1	ND	0.0043	ND	ND	0.0024	0.0027	0.0022
	Cobalt	N/R	ND	ND	ND	ND	ND (0.00035 J)	ND	0.0017
	Copper	1.3	ND	ND (0.00065 J)	ND (0.00066 J)	ND	ND	ND (0.00085 J)	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND (0.00017 J)
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.1	ND	ND (0.00077 J)	ND (0.00092 J)	ND (0.00066 J)	ND (0.00044 J)	0.0010	ND (0.00066 J)
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	ND	ND	ND	ND
	Thallium	0.002	ND	ND	ND	ND	ND	ND	ND (0.00026 J)
Vanadium	N/A	0.0013	0.0048	0.0023	0.0017	0.0015	0.0027	ND	
Zinc	(5)	ND (0.0041 J)	0.0062	0.012	ND (0.0038 J)	0.0086	0.0061	0.0068	

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**Table 5C**  
**Summary of Groundwater Analytical Data**  
**September 2019**

Substance	MCL/ (SMCL)	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
		9/12/2019	9/11/2019	9/11/2019	9/12/2019	9/12/2019	9/10/2019	9/11/2019	9/12/2019
Appendix III	Boron	N/R	ND	ND (0.053 J)	ND	ND	ND	ND	ND
	Calcium	N/R	3.6	0.90	6.0	1.8	1.2	4.0	12
	Chloride	(250)	1.9	4.2	7.9	2.3	ND (0.88 J)	1.3	NS
	Fluoride	4	ND (0.033 J)	ND	ND (0.039 J)	ND	0.18	ND (0.10 J)	NS
	Sulfate	(250)	ND (0.54 J)	ND (0.59 J)	5.7	ND	ND (0.82 J)	1.3	NS
	TDS	(500)	58	ND	53	61	50	46	NS
Required by GWMP	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND (0.00041 J)	ND	ND	ND	ND (0.00032 J)
	Barium	2	ND (0.0053 J)	0.020	0.056	0.039	0.012	ND (0.0098 J)	ND (0.0055 J)
	Beryllium	0.004	ND	ND	ND (0.00019 J)	ND	0.0012	ND	ND (0.00092 J)
	Cadmium	0.005	ND	ND	ND (0.00020 J)	ND	ND	ND	ND
	Chromium	0.1	0.0024	0.0023	0.0034	0.0033	0.0024	ND (0.0019 J)	0.0084
	Cobalt	N/R	ND (0.000093 J)	0.0013	0.013	ND (0.00012 J)	0.0022	ND	ND (0.00044 J)
	Copper	1.3	ND (0.00068 J)	ND (0.0013 J)	0.0072	ND (0.0010 J)	ND (0.0011 J)	ND	0.0063
	Lead	0.015	ND	ND (0.00015 J)	ND (0.00024 J)	ND	ND (0.00016 J)	ND	0.0013
	Mercury	0.002	ND	ND	ND	ND	ND	ND (0.00014 J)	ND
	Nickel	0.1	ND (0.00044 J)	0.0018	0.024	ND (0.00081 J)	ND (0.00044 J)	ND	0.010
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND
	Silver	N/A	ND	ND	ND	ND	ND	ND	0.0078
	Thallium	0.002	ND	ND (0.00023 J)	ND (0.00028 J)	ND	ND (0.00021 J)	ND	ND
Vanadium	N/A	0.0010	ND	0.0013	0.0014	ND	0.0018	0.0025	
Zinc	(5)	ND (0.0042 J)	0.0081	0.037	0.0059	0.0079	0.019	0.081	

Notes:

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7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
10. N/A indicates substance does not have an MCL or SMCL and is not included in Appendix IV
11. NS Indicates not sampled due to insufficient water column

**Table 5C**  
**Summary of Groundwater Analytical Data**  
**September 2019**

Substance	MCL/ (SMCL)	GWC-33	GWC-34	GWC-35
		9/12/2019	9/11/2019	9/12/2019
Appendix III	Boron	N/R	ND	ND
	Calcium	N/R	14	3.3
	Chloride	(250)	2.1	1.1
	Fluoride	4	2.4	0.15
	Sulfate	(250)	12	1.6
	TDS	(500)	110	20
Required by GWMP	Antimony	0.006	ND	ND
	Arsenic	0.01	ND	ND
	Barium	2	ND (0.0090 J)	0.014
	Beryllium	0.004	ND (0.00044 J)	ND
	Cadmium	0.005	ND	ND
	Chromium	0.1	0.0032	0.0034
	Cobalt	N/R	0.00083	ND (0.00011 J)
	Copper	1.3	ND	ND (0.0013 J)
	Lead	0.015	ND (0.00031 J)	ND
	Mercury	0.002	ND	ND
	Nickel	0.1	ND (0.00078 J)	0.0014
	Selenium	0.05	ND	ND
	Silver	N/A	ND	ND
	Thallium	0.002	ND	ND
	Vanadium	N/A	0.0014	ND
Zinc	(5)	0.010	0.0068	

Notes:

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**Table 6A**  
**Surface Water Analytical Results and Field Parameters**  
**January 2019**

Substance	SWA-1	SWA-6	SWC-2	SWC-3	SWC-4	SWC-5	SWC-7	SWC-8	
	1/28/2019	1/28/2019	1/28/2019	1/28/2019	1/28/2019	1/28/2019	1/28/2019	1/28/2019	
Appendix III	Boron	ND	ND (0.035 J)	ND	ND	ND	0.14	0.055	ND
	Calcium	2.0	3.2	13	8.0	4.9	14	4.3	10
	Chloride	2.2	3.4	4.0	25	3.3	19	4.8	4.1
	Fluoride	ND (0.027 J)	ND (0.038 J)	ND (0.11 J)	ND (0.19 J)	ND (0.060 J)	ND (0.079 J)	ND (0.055 J)	ND (0.034 J)
	Sulfate	2.3	3.6	1.2	2.3	1.6	9.7	6.2	14
	TDS	18	37	120	140	73	100	56	66
Required by GWMP	Antimony	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND (0.00084 J)	ND (0.00048 J)	ND (0.00047 J)	ND (0.00059 J)	ND (0.00049 J)	ND (0.00087 J)	ND
	Barium	0.021	0.023	0.061	0.037	0.051	0.062	0.026	0.040
	Beryllium	ND (0.00012 J)	ND (0.000091 J)	ND	ND (0.000081 J)	ND	ND	ND (0.000089 J)	ND
	Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	ND (0.0017 J)	ND (0.00091 J)	ND (0.0013 J)	ND (0.0017 J)	ND (0.0011 J)	ND (0.0011 J)	ND (0.00082 J)	ND (0.0011 J)
	Cobalt	ND (0.00038 J)	ND (0.00051 J)	0.0044	0.10	0.010	0.0025	ND (0.00061 J)	0.0029
	Copper	ND	ND	ND	ND	ND	ND	ND	ND
	Lead	ND (0.00045 J)	ND (0.00037 J)	ND (0.00021 J)	ND (0.00014 J)	ND (0.00016 J)	ND (0.00035 J)	ND (0.00033 J)	ND (0.00021 J)
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	ND (0.00051 J)	ND (0.00051 J)	ND (0.00043 J)	0.0031	ND (0.00043 J)	0.0017	ND (0.00062 J)	ND (0.00061 J)
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND (0.00039 J)	ND	ND	ND	ND
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	0.0016	0.0010	0.0011	ND	ND	0.0013	ND	ND	
Zinc	ND (0.0036 J)	ND (0.0045 J)	ND (0.0029 J)	ND	ND	ND (0.0030 J)	ND (0.0045 J)	ND (0.0032 J)	

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 6B**  
**Surface Water Analytical Results and Field Parameters**  
**June 2019**

Substance	SWA-1	SWA-6	SWC-2	SWC-3	SWC-5	SWC-7	
	6/27/2019	6/27/2019	6/27/2019	6/27/2019	6/27/2019	6/27/2019	
Required by GWMP	Antimony	ND	ND	ND	ND	ND	
	Arsenic	ND	ND (0.00047 J)	0.0012	0.0025	ND	ND (0.00041 J)
	Barium	0.013	0.019	0.050	0.076	0.080	0.020
	Beryllium	ND	ND	ND	ND (0.00041 J)	ND	ND
	Cadmium	ND	ND	ND	ND	ND	ND
	Chromium	0.0023	0.0023	0.0029	0.0063	0.0022	0.0022
	Cobalt	ND (0.00012 J)	ND (0.00022 J)	0.0043	0.098	0.011	0.00032 J
	Copper	ND	ND	ND	0.0053	0.0052	ND
	Lead	ND (0.00021 J)	0.0011	ND (0.00018 J)	0.0045	ND (0.00023 J)	ND (0.00016 J)
	Mercury	ND	ND	ND	ND	ND	ND
	Nickel	ND	ND (0.00033 J)	ND (0.00037 J)	0.0058	0.0056	ND (0.00041 J)
	Selenium	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND
	Thallium	ND	ND	ND	ND	ND	ND
	Zinc	0.0018	0.0014	0.0017	0.016	0.0011	0.0015

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 6C**  
**Surface Water Analytical Results and Field Parameters**  
**September 2019**

Substance	SWA-1	SWA-6	SWC-2	SWC-3	SWC-5	SWC-7	
	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	
Appendix III	Boron	ND (0.040 J)	0.32	ND	ND (0.064 J)	0.18	0.35
	Calcium	4.0	10	16	7.5	14	12
	Chloride	2.8	14	3.2	39	21	18
	Fluoride	ND (0.089 J)	ND (0.10 J)	ND (0.17 J)	0.21	ND (0.076 J)	ND (0.097 J)
	Sulfate	2.1	9.3	ND (0.49 J)	1.8	11	11
	TDS	50	100	120	240	130	89
Required by GWMP	Antimony	ND	ND	ND	ND	ND	ND
	Arsenic	ND (0.00034 J)	ND (0.00070 J)	0.0013	0.0010	ND	ND (0.00085 J)
	Barium	0.017	0.022	0.047	0.044	0.083	0.026
	Beryllium	ND (0.00023 J)	ND (0.00027 J)	ND (0.00021 J)	ND (0.00038 J)	ND	ND
	Cadmium	ND	ND	ND	ND	ND	ND
	Chromium	ND	ND	0.0023	ND (0.0016 J)	ND	ND
	Cobalt	ND (0.00021 J)	ND (0.00031 J)	0.0043	0.16	0.010	ND (0.00024 J)
	Copper	ND	ND	ND (0.00083 J)	ND	ND	ND
	Lead	ND (0.00017 J)	ND (0.00018 J)	ND (0.00047 J)	ND (0.00037 J)	ND (0.00035 J)	ND
	Mercury	ND	ND	ND	ND	ND	ND
	Nickel	ND	ND (0.00058 J)	ND (0.00062 J)	0.0054	0.0049	ND (0.00039 J)
	Selenium	ND	ND	ND	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND
	Thallium	ND	ND	ND	ND	ND	ND
Vanadium	0.0010	0.0012	0.0028	0.0018	0.0012	ND	
Zinc	ND (0.0045 J)	0.0057	0.0061	0.0064	0.011	ND (0.0042 J)	

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 7A  
Effluent Analytical Results  
January 2019**

Substance	Effluent Unit 1	Effluent Unit 2
	2/1/2019	2/1/2019
Antimony	0.0039	0.0031
Arsenic	0.046	0.037
Barium	0.53	0.54
Beryllium	0.0046	0.0044
Cadmium	0.0051	0.0060
Chromium	0.13	0.10
Cobalt	0.030	0.014
Copper	0.19	0.13
Lead	0.059	0.053
Mercury	0.052	0.070
Nickel	0.17	0.14
Selenium	0.50	0.44
Silver	ND (0.00021 J)	ND (0.00025 J)
Thallium	0.0021	0.0041
Vanadium	0.073	0.081
Zinc	0.30	0.30

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 7B  
Effluent Analytical Results  
June 2019**

Substance	Effluent Unit 1
	6/27/2019
Antimony	0.0029
Arsenic	0.046
Barium	0.21
Beryllium	0.0010
Cadmium	0.0014
Chromium	0.032
Cobalt	0.0048
Copper	0.018
Lead	0.022
Mercury	0.015
Nickel	0.035
Selenium	0.29
Silver	ND
Thallium	0.0015
Vanadium	0.019
Zinc	0.041

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 7C**  
**Effluent Analytical Results**  
**September 2019**

Substance	Effluent Unit 1	Effluent Unit 2
	9/17/2019	9/17/2019
Antimony	0.0088	0.0062
Arsenic	0.090	0.054
Barium	0.52	0.59
Beryllium	0.0057	0.0048
Cadmium	0.0055	0.0060
Chromium	0.14	0.17
Cobalt	0.019	0.025
Copper	0.089	0.15
Lead	0.093	0.067
Mercury	0.072	0.10
Nickel	0.13	0.16
Selenium	0.44	0.54
Silver	ND (0.00046 J)	ND (0.00047 J)
Thallium	0.0065	0.0033
Vanadium	0.083	0.055
Zinc	0.26	0.23

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 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	Intrawell (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



PROJECT:  
**PLANT WANSLEY CCR LANDFILL**

1371 LIBERTY CHURCH ROAD  
 CARROLLTON, GEORGIA

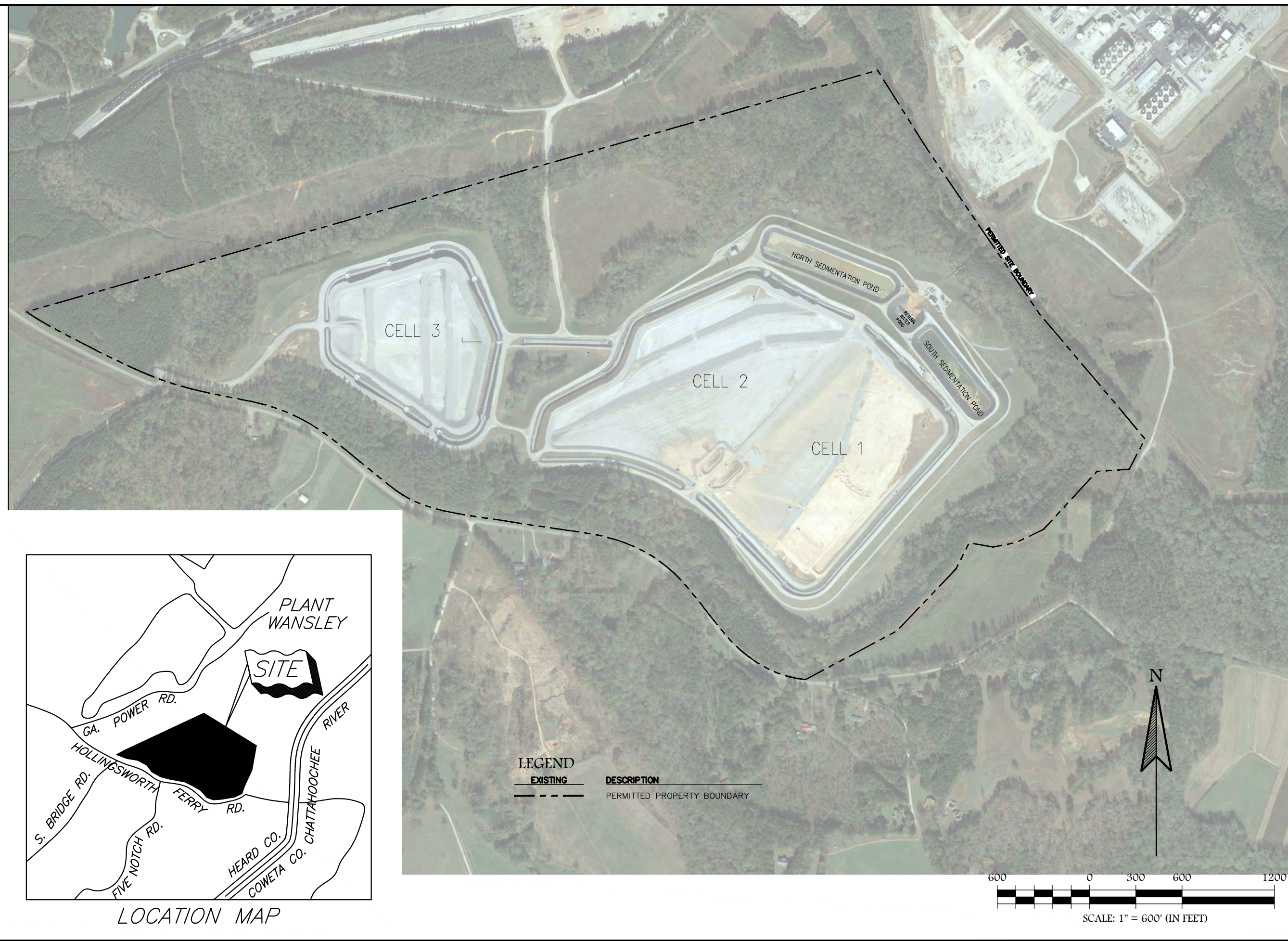
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**PLANT WANSLEY CCR LANDFILL MAP**

FIGURE **1**





**ATLANTIC COAST CONSULTING, INC.**  
 1150 Northmeadow Pkwy.  
 Suite 100  
 Roswell, GA 30076  
 770.594.5998  
 www.atlcc.net

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1371 LIBERTY CHURCH ROAD  
 CARROLTON, GEORGIA

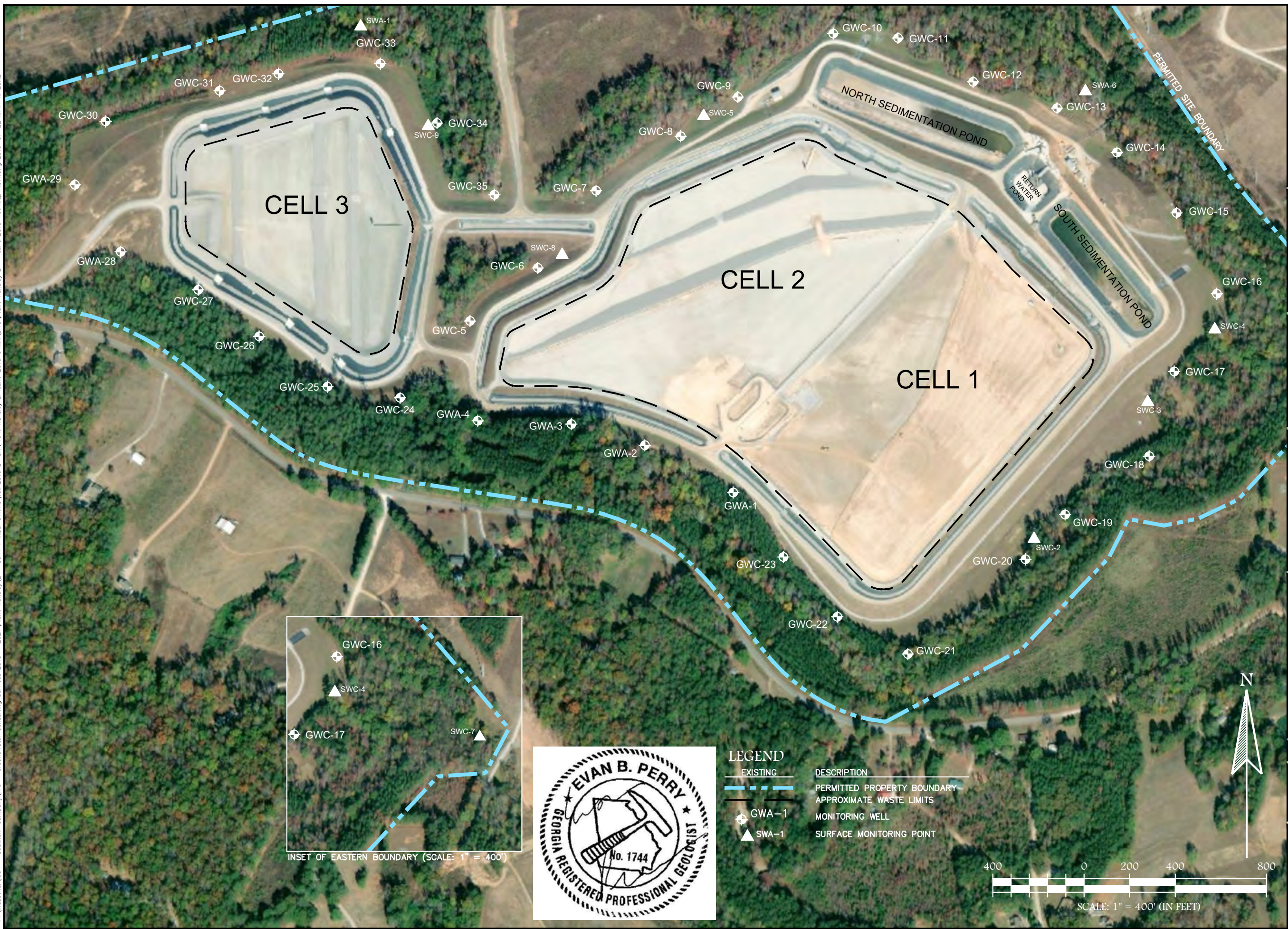
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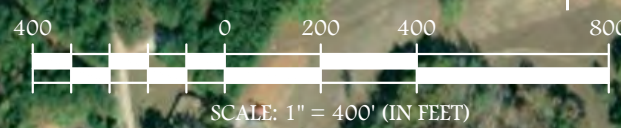
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 July 2019

**WELL LOCATION MAP**

FIGURE 2



LEGEND	
—	EXISTING
- - - -	PERMITTED PROPERTY BOUNDARY
- . - . - .	APPROXIMATE WASTE LIMITS
⊕	MONITORING WELL
▲	SURFACE MONITORING POINT



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**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

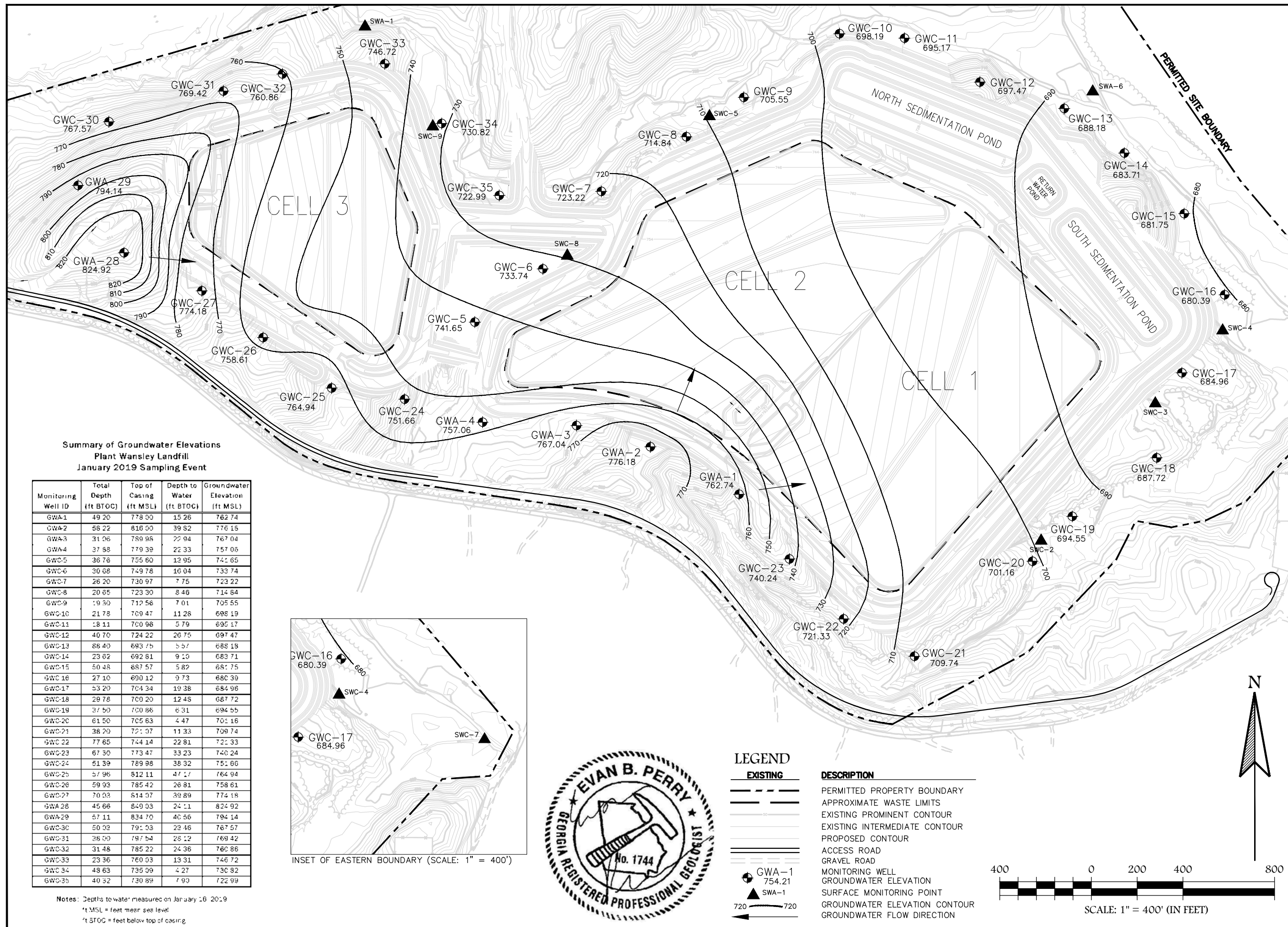
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NO.	DESCRIPTION	DATE

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PROJECT NUMBER:  
 IO54-110  
 March 2019

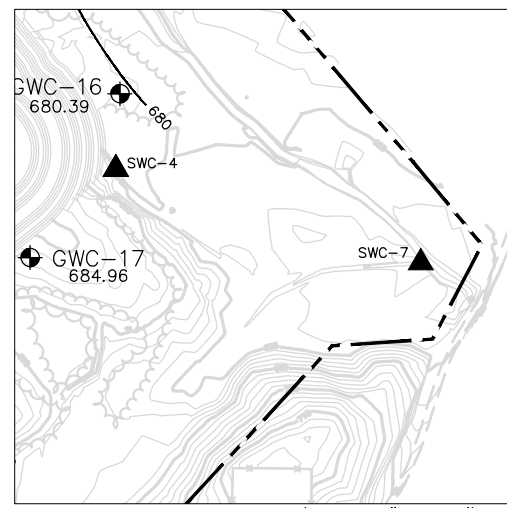
JANUARY 2019  
 POTENTIOMETRIC  
 SURFACE MAP



Summary of Groundwater Elevations  
 Plant Wansley Landfill  
 January 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	49.20	778.00	15.26	762.74
GWA-2	56.22	816.00	39.62	776.38
GWA-3	31.06	789.98	22.94	767.04
GWA-4	37.88	779.38	22.33	757.05
GWC-5	36.76	755.60	12.95	742.65
GWC-6	30.68	749.78	16.04	733.74
GWC-7	26.20	730.97	7.75	723.22
GWC-8	20.65	723.30	8.46	714.84
GWC-9	19.30	712.58	7.01	705.55
GWC-10	21.78	709.47	11.28	698.19
GWC-11	18.11	700.98	5.79	695.17
GWC-12	40.70	724.22	26.75	697.47
GWC-13	88.40	683.75	5.57	688.18
GWC-14	23.62	692.61	9.10	683.51
GWC-15	50.48	687.57	5.82	681.75
GWC-16	27.10	690.12	9.73	680.39
GWC-17	53.20	704.34	19.38	684.96
GWC-18	29.78	709.20	12.48	687.72
GWC-19	37.50	700.86	6.31	694.55
GWC-20	61.50	705.63	4.47	701.16
GWC-21	38.20	721.07	11.33	709.74
GWC-22	77.65	744.14	22.81	721.33
GWC-23	67.30	773.47	33.23	740.24
GWC-24	51.39	789.98	38.32	751.66
GWC-25	57.96	812.11	47.17	764.94
GWC-26	59.93	785.42	26.81	758.61
GWC-27	70.03	814.07	39.89	774.18
GWA-28	45.66	840.03	24.11	824.92
GWA-29	57.11	834.70	40.56	794.14
GWC-30	50.03	791.03	22.48	767.57
GWC-31	36.00	787.54	28.12	769.42
GWC-32	31.48	785.22	24.36	760.86
GWC-33	23.36	760.03	13.31	746.72
GWC-34	48.63	735.09	4.27	730.82
GWC-35	40.32	730.89	7.90	722.99

Notes: Depths to water measured on January 16, 2019  
 \*ft MSL = feet mean sea level  
 \*ft BTOC = feet below top of casing



INSET OF EASTERN BOUNDARY (SCALE: 1" = 400')



**LEGEND**

	<b>EXISTING</b>	<b>DESCRIPTION</b>
----	PERMITTED PROPERTY BOUNDARY	
- - - -	APPROXIMATE WASTE LIMITS	
=====	EXISTING PROMINENT CONTOUR	
- . - . - .	EXISTING INTERMEDIATE CONTOUR	
=====	PROPOSED CONTOUR	
===== -----	ACCESS ROAD	
===== -----	GRAVEL ROAD	
⊕	GWA-1 754.21	MONITORING WELL
▲	SWA-1	GROUNDWATER ELEVATION
▲	720	SURFACE MONITORING POINT
→	720	GROUNDWATER ELEVATION CONTOUR
→		GROUNDWATER FLOW DIRECTION

Scale bar: 400 0 200 400 800  
 SCALE: 1" = 400' (IN FEET)

North arrow pointing up.

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**ATLANTIC COAST CONSULTING, INC.**  
 1150 Northmeadow Pkwy.  
 Suite 100  
 Roswell, GA 30076  
 770.594.5998  
 www.atlcc.net

PROJECT:  
**PLANT WANSLEY  
 CCR LANDFILL**

1371 LIBERTY CHURCH ROAD  
 CARROLLTON, GEORGIA

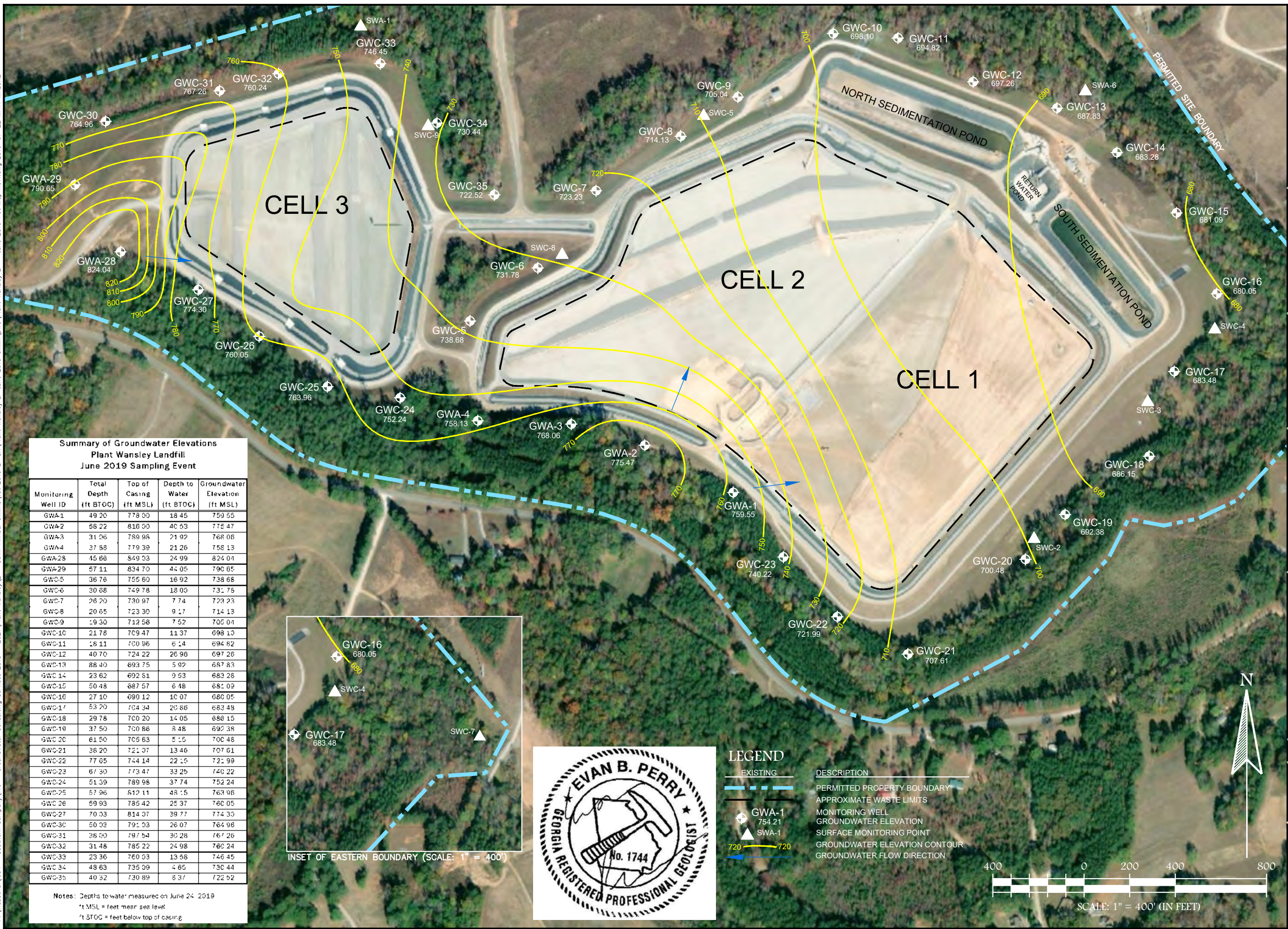
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PROJECT NUMBER:  
**I054-110**  
 July 2019

**JUNE 2019  
 POTENTIOMETRIC  
 SURFACE MAP**

FIGURE **4**



**Summary of Groundwater Elevations  
 Plant Wansley Landfill  
 June 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	49.20	778.00	18.45	759.55
GWA-2	56.22	816.00	40.53	775.47
GWA-3	31.06	789.98	21.92	768.06
GWA-4	37.88	779.38	21.26	758.13
GWA-2S	45.66	849.03	24.99	824.04
GWA-29	57.11	834.70	44.05	790.65
GWC-5	36.76	755.60	16.92	738.68
GWC-6	30.68	749.78	18.00	731.78
GWC-7	26.20	730.97	7.74	723.23
GWC-8	20.65	723.30	9.17	714.13
GWC-9	19.30	712.56	7.52	705.04
GWC-10	21.78	709.47	11.37	698.10
GWC-11	18.11	700.96	6.14	694.82
GWC-12	40.70	724.22	26.96	697.26
GWC-13	88.40	893.75	5.92	687.83
GWC-14	23.62	692.51	9.53	683.28
GWC-15	50.48	687.57	6.48	681.09
GWC-16	27.10	690.12	10.07	680.05
GWC-17	53.20	704.34	20.86	683.48
GWC-18	29.78	700.20	14.05	686.15
GWC-19	37.50	700.88	8.48	692.38
GWC-20	61.50	705.63	5.15	700.48
GWC-21	38.20	721.07	13.46	707.61
GWC-22	77.65	744.14	22.15	721.99
GWC-23	67.30	773.47	33.25	740.22
GWC-24	51.39	789.98	37.74	752.24
GWC-25	57.96	817.11	48.15	768.96
GWC-26	59.93	785.42	25.37	760.05
GWC-27	70.33	814.07	38.77	774.30
GWC-30	50.33	791.03	26.07	764.96
GWC-31	36.00	787.54	30.28	767.26
GWC-32	31.48	785.22	24.98	760.24
GWC-33	23.36	760.03	13.56	746.45
GWC-34	48.63	735.39	4.65	730.74
GWC-35	40.32	730.89	8.37	722.52

Notes: Depths to water measured on June 24, 2019  
 ft MSL = feet mean sea level  
 ft BTOC = feet below top of casing



INSET OF EASTERN BOUNDARY (SCALE: 1" = 400')



**LEGEND**

EXISTING	DESCRIPTION
	PERMITTED PROPERTY BOUNDARY
	APPROXIMATE WASTE LIMITS
	MONITORING WELL
	GROUNDWATER ELEVATION
	SURFACE MONITORING POINT
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION





**ATLANTIC COAST CONSULTING, INC.**  
 1150 Northmeadow Pkwy.  
 Suite 100  
 Roswell, GA 30076  
 770.594.5998  
 www.atlcc.net

PROJECT:  
**PLANT WANSLEY CCR LANDFILL**

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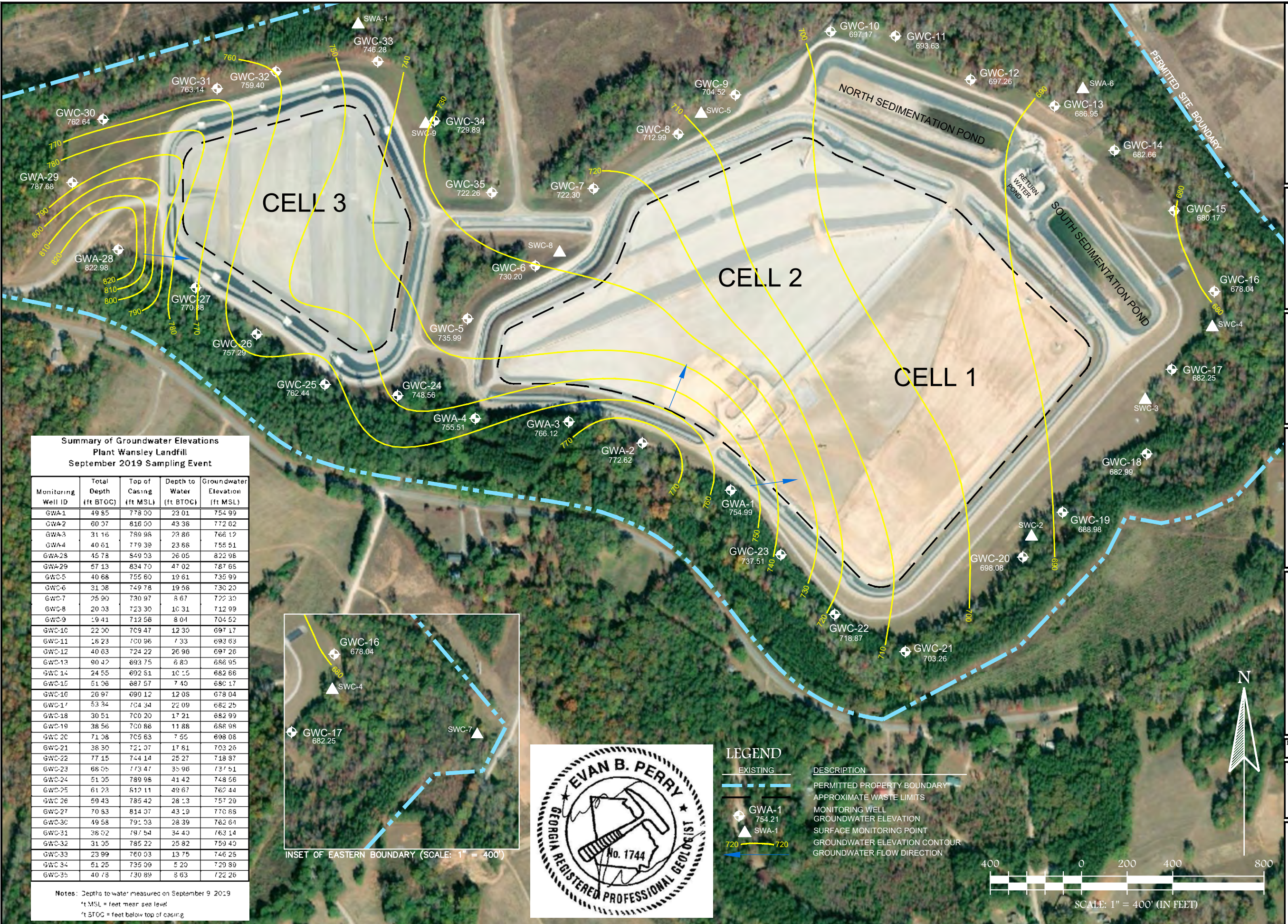
NO.	DESCRIPTION	DATE

Drawn by: MM      Checked by: EP

PROJECT NUMBER:  
**I054-110**  
 November 2019

**SEPTEMBER 2019 POTENTIOMETRIC SURFACE MAP**

FIGURE 5



**Summary of Groundwater Elevations**  
**Plant Wansley Landfill**  
**September 2019 Sampling Event**

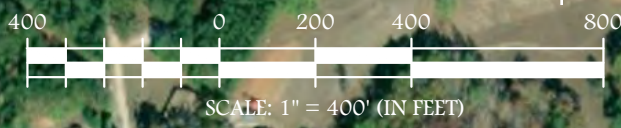
Monitoring Well ID	Total Depth (ft BTOC)	Top of Casing (ft MSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
GWA-1	49.55	778.00	23.01	754.99
GWA-2	60.07	816.00	43.36	772.62
GWA-3	31.16	789.98	23.86	766.12
GWA-4	40.61	779.39	23.66	755.51
GWA-28	45.78	849.03	26.05	822.98
GWA-29	57.13	834.70	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	16.31	712.99
GWC-9	19.41	712.56	8.04	704.52
GWC-10	22.00	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	5.29	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



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## APPENDICES

**APPENDIX A**

**ALTERNATE SOURCE DEMONSTRATION**

**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.

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## 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	<b>2.2</b>	1.3
GWA-29	14	<b>26</b>	9.2
GWC-5	28	<b>31</b>	<b>34</b>
GWC-12	25	<b>25</b>	<b>26</b>
GWC-17	1.0	<b>1.1</b>	ND (0.99 J)
GWC-30	1.5	<b>1.7</b>	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  $1 \times 10^{-5}$  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.

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## 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.

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## 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.

Southern Company Generation Engineering and Construction Services, Design and Operation Plans, Plant Wansley Coal Combustion By-Product Disposal Facility, 2012.

University of Georgia Weather Network, <http://www.georgiaweather.net>, Plant Wansley station, Roopville, Georgia.



## FIGURES

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## FIGURES

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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

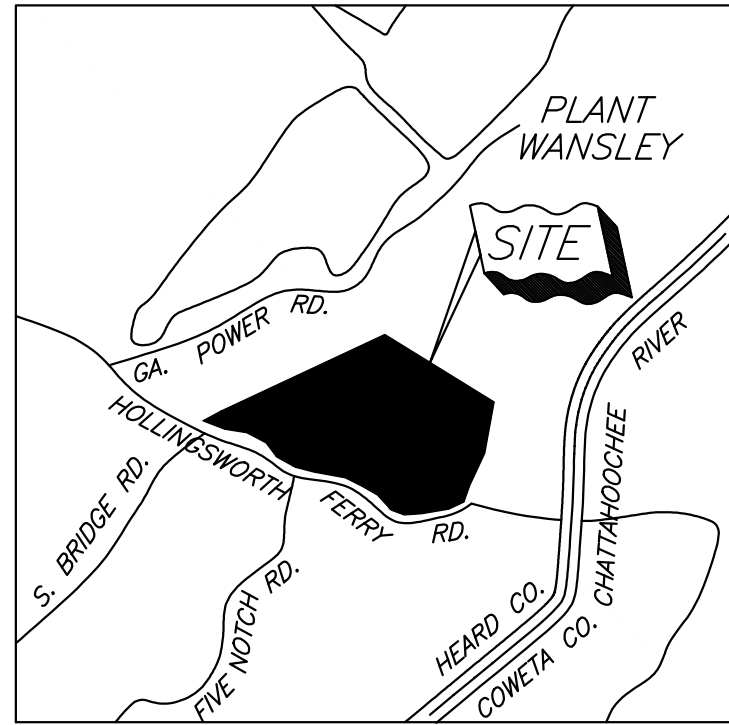
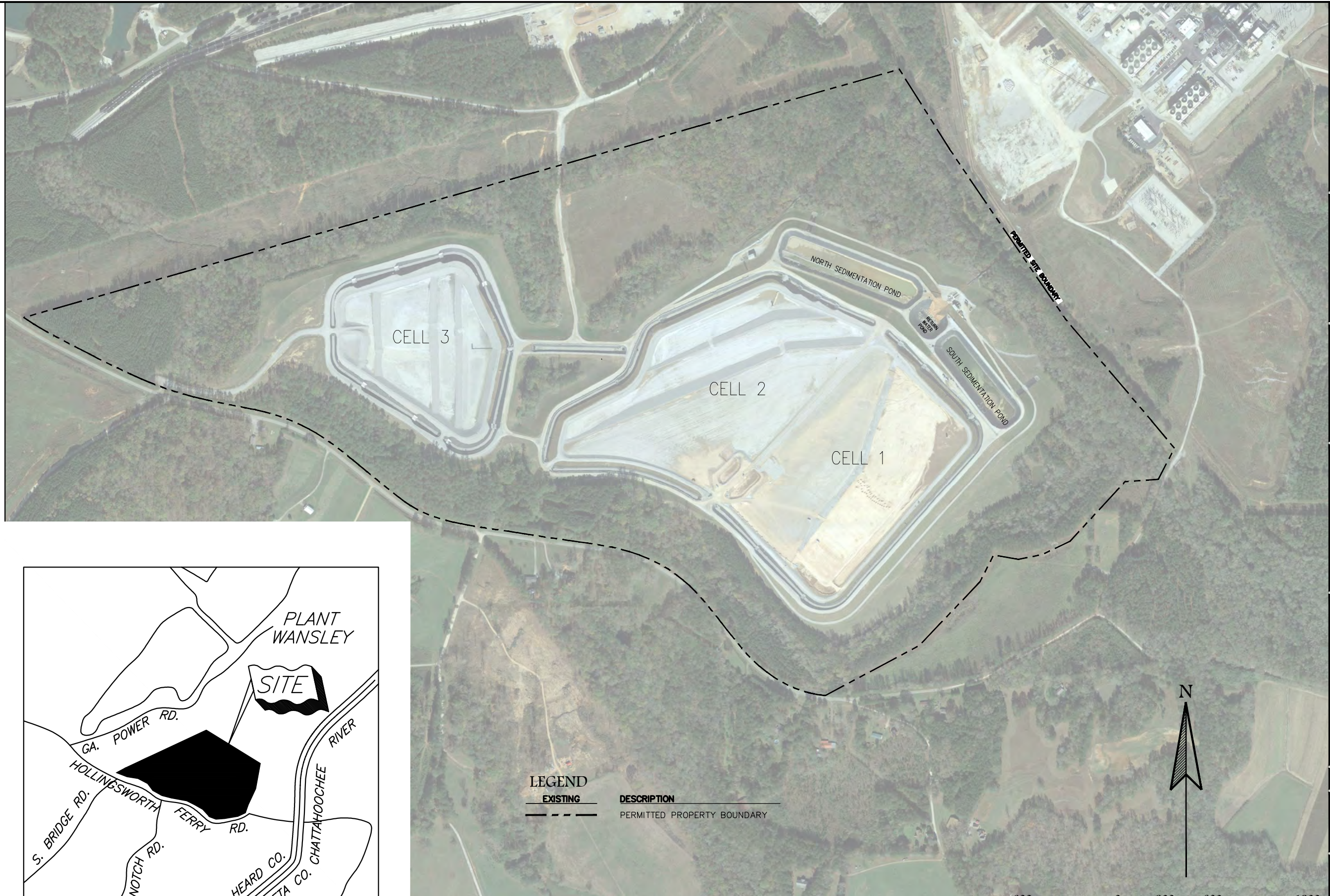
REVISIONS

Drawn by: MM      Checked by: EP

PROJECT NUMBER:  
 IO54-110  
 March 2019

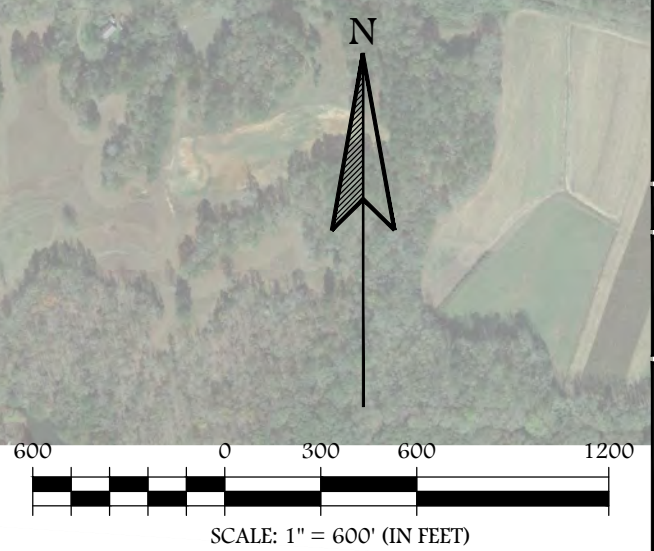
PLANT WANSLEY CCR LANDFILL MAP

FIGURE 1



LOCATION MAP

LEGEND	DESCRIPTION
—	EXISTING
- - - -	PERMITTED PROPERTY BOUNDARY





**ATLANTIC COAST CONSULTING, INC.**  
 1150 Northmeadow Pkwy.  
 Suite 100  
 Roswell, GA 30076  
 770.594.5998  
 www.atlcc.net

PROJECT:  
**PLANT WANSLEY CCR LANDFILL**

1371 LIBERTY CHURCH ROAD  
 CARROLLTON, GEORGIA

REVISIONS

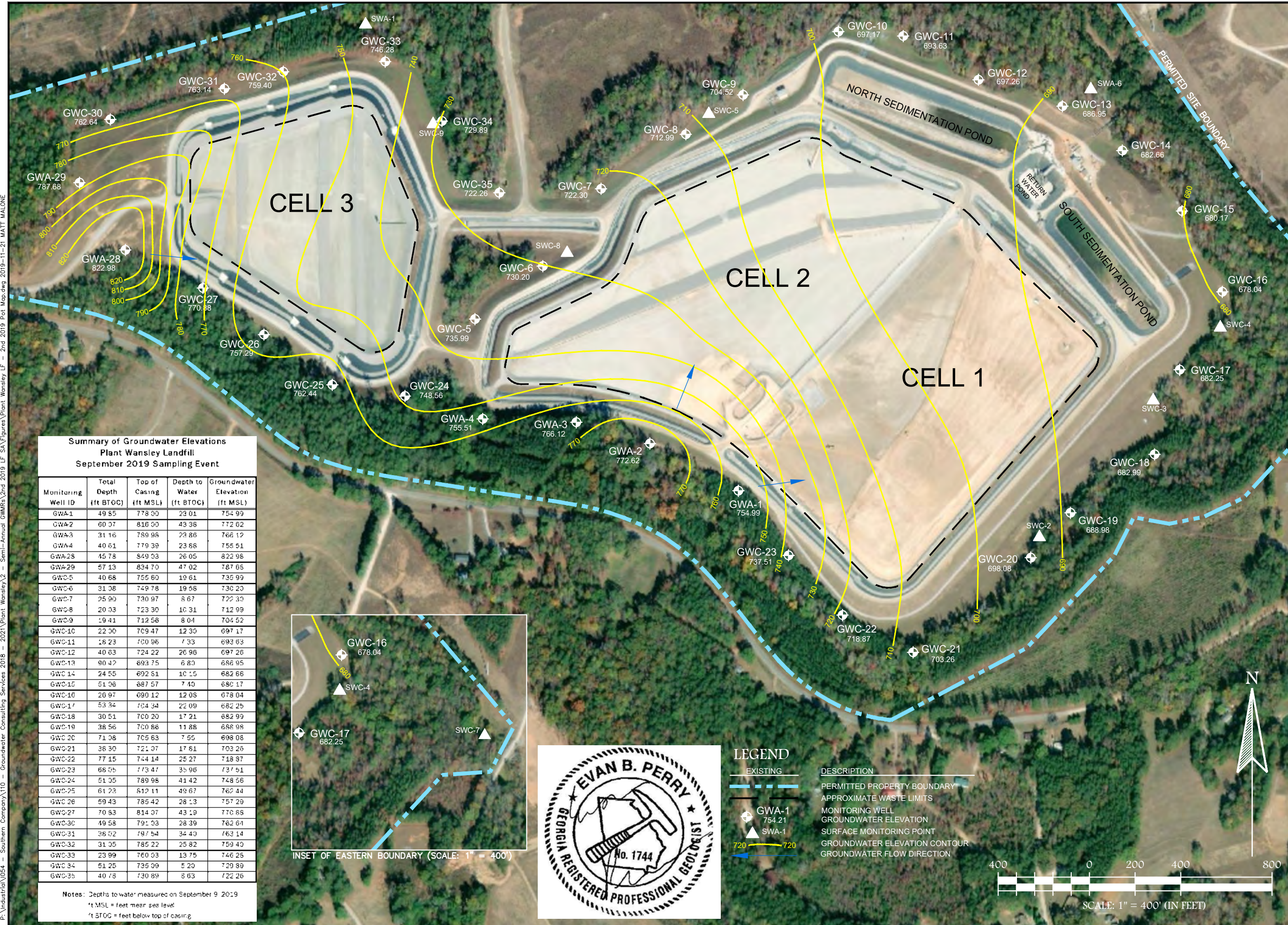
NO.	DATE	DESCRIPTION

Drawn by: MM      Checked by: EP

PROJECT NUMBER:  
**I054-110**  
 November 2019

**SEPTEMBER 2019 POTENTIOMETRIC SURFACE MAP**

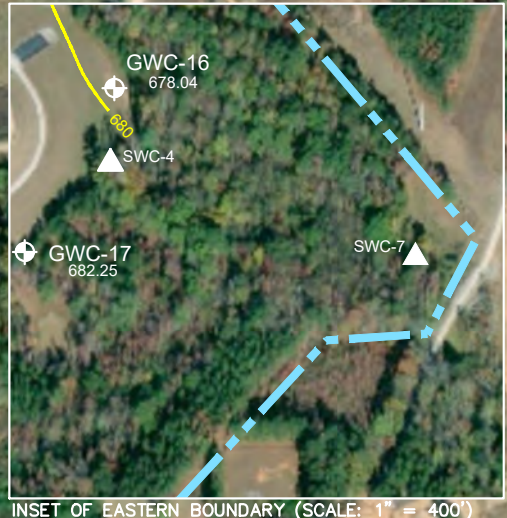
FIGURE 2



**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	23.86	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	16.31	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	8.63	722.26

Notes: Depths to water measured on September 9 2019  
 † MSL = feet mean sea level  
 † BTOC = feet below top of casing



INSET OF EASTERN BOUNDARY (SCALE: 1" = 400')



**LEGEND**

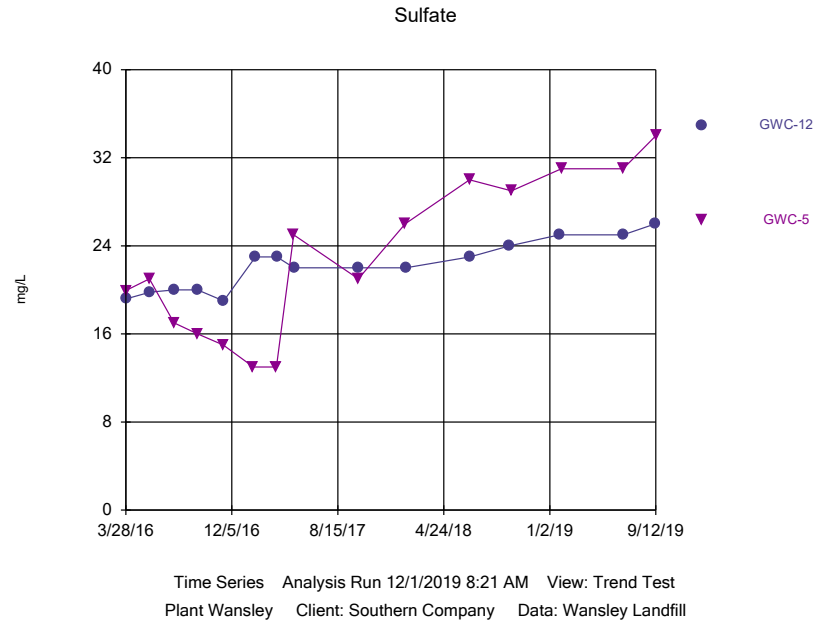
EXISTING	DESCRIPTION
	PERMITTED PROPERTY BOUNDARY
	APPROXIMATE WASTE LIMITS
	MONITORING WELL
	GROUNDWATER ELEVATION
	SURFACE MONITORING POINT
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION



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

### Figure 3. Sulfate Time Series - GWC-5 and GWC-12 / Upgradient Locations

Sanitas™ v.9.6.23 Sanitas software licensed to ACC. UG



Sanitas™ v.9.6.23 Sanitas software licensed to ACC. UG  
Hollow symbols indicate censored values.

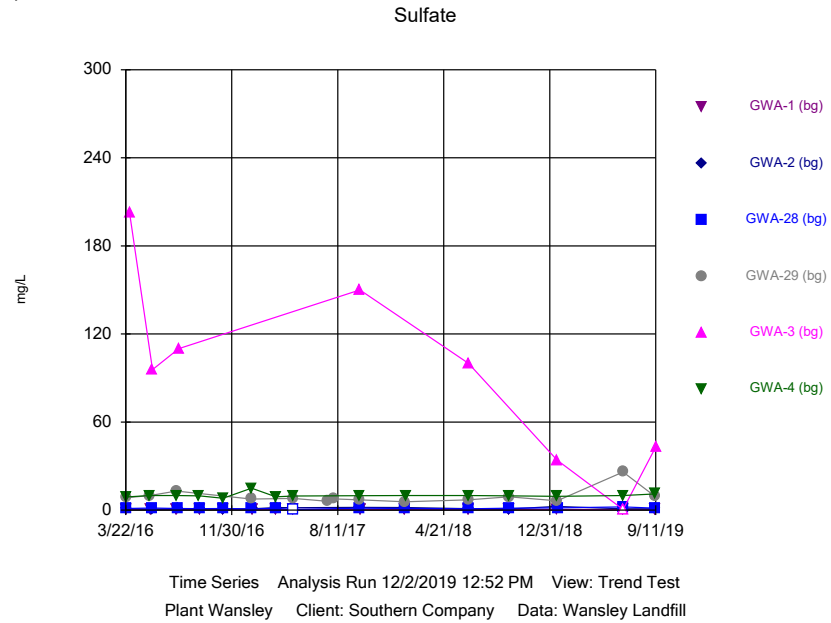
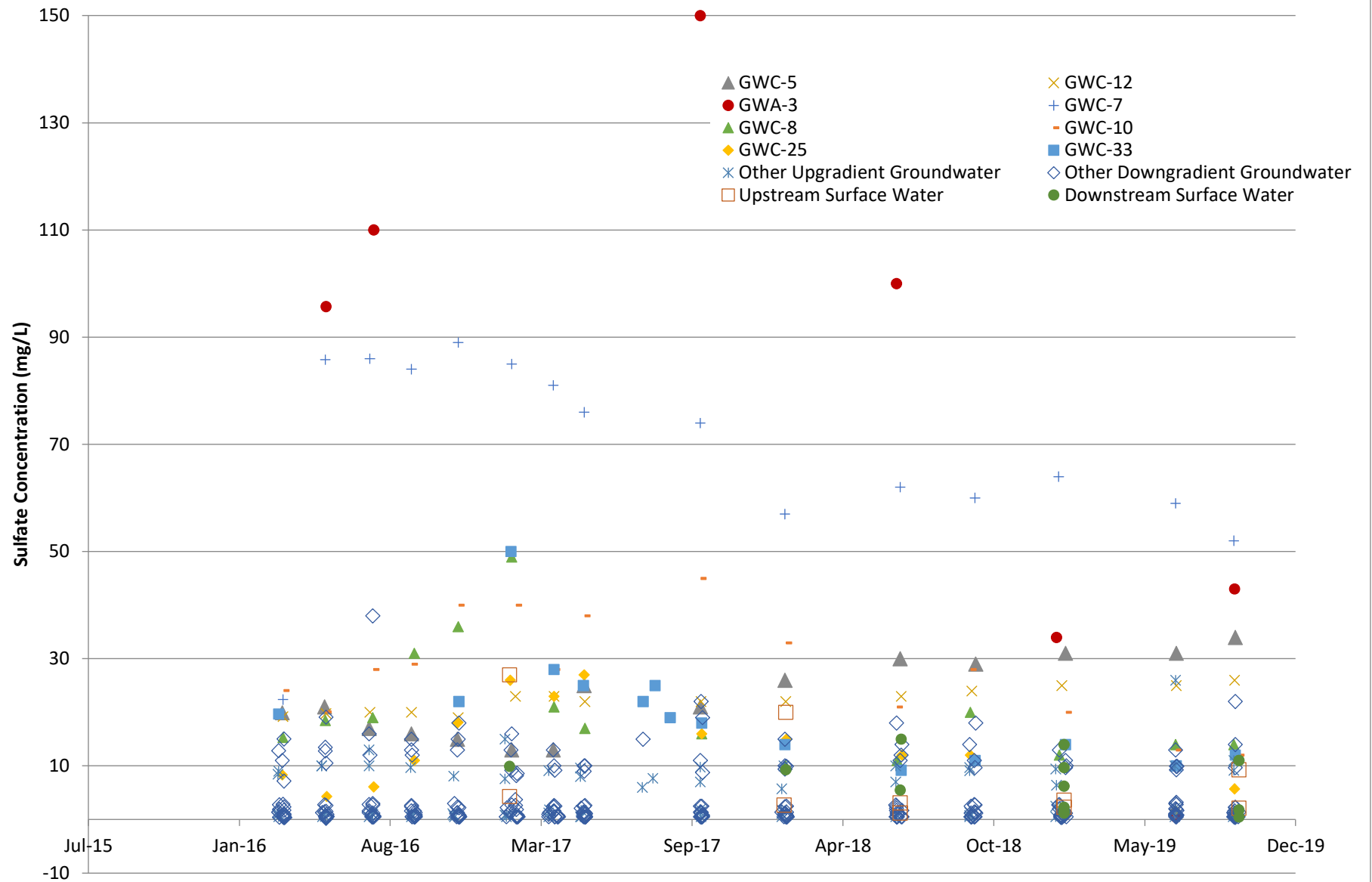


Figure 4 - GWC-5 and GWC-12 Sulfate Concentrations vs. Site-Wide Range



**APPENDIX B**

**LABORATORY ANALYTICAL AND FIELD SAMPLING  
REPORTS**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-85917-1

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

1/31/2019 4:17:37 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

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results through

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Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-85917-1

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**Job ID: 180-85917-1**

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**Laboratory: TestAmerica Pittsburgh**

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## Narrative

**Job Narrative**  
**180-85917-1**

### Comments

No additional comments.

### Receipt

The samples were received on 1/19/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° 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.



# Definitions/Glossary

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

TestAmerica Job ID: 180-85917-1

## 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

TestAmerica Job ID: 180-85917-1

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-85917-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-85917-1	GWA-1	Water	01/17/19 12:06	01/19/19 09:30
180-85917-2	GWA-2	Water	01/17/19 13:46	01/19/19 09:30
180-85917-3	GWA-3	Water	01/18/19 09:30	01/19/19 09:30
180-85917-4	GWA-4	Water	01/17/19 17:30	01/19/19 09:30
180-85917-5	GWA-29	Water	01/18/19 10:32	01/19/19 09:30
180-85917-6	EB-1-1-18-19	Water	01/18/19 10:45	01/19/19 09:30
180-85917-7	DUP-1	Water	01/17/19 00:00	01/19/19 09:30

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# Method Summary

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

TestAmerica Job ID: 180-85917-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

#### Protocol References:

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

# Lab Chronicle

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

TestAmerica Job ID: 180-85917-1

## Client Sample ID: GWA-1

Date Collected: 01/17/19 12:06

Date Received: 01/19/19 09:30

## Lab Sample ID: 180-85917-1

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			268824	01/26/19 18:23	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:36	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268500	01/22/19 17:28	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWA-2

Date Collected: 01/17/19 13:46

Date Received: 01/19/19 09:30

## Lab Sample ID: 180-85917-2

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			268824	01/26/19 19:40	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:39	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268500	01/22/19 17:28	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWA-3

Date Collected: 01/18/19 09:30

Date Received: 01/19/19 09:30

## Lab Sample ID: 180-85917-3

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			268824	01/26/19 19:55	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:43	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268613	01/23/19 14:37	JAS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWA-4

Date Collected: 01/17/19 17:30

Date Received: 01/19/19 09:30

## Lab Sample ID: 180-85917-4

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	300.0		1			268824	01/26/19 20:11	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268457	01/22/19 11:12	NAM	TAL PIT

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-85917-1

## Client Sample ID: GWA-4

Date Collected: 01/17/19 17:30

Date Received: 01/19/19 09:30

## Lab Sample ID: 180-85917-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:46	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268500	01/22/19 17:28	TAM	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: GWA-29

Date Collected: 01/18/19 10:32

Date Received: 01/19/19 09:30

## Lab Sample ID: 180-85917-5

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			268824	01/26/19 20:27	CMR	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:49	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268613	01/23/19 14:37	JAS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: EB-1-1-18-19

Date Collected: 01/18/19 10:45

Date Received: 01/19/19 09:30

## Lab Sample ID: 180-85917-6

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			268824	01/26/19 20:43	CMR	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:53	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268613	01/23/19 14:37	JAS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: DUP-1

Date Collected: 01/17/19 00:00

Date Received: 01/19/19 09:30

## Lab Sample ID: 180-85917-7

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	300.0		1	1 mL	1.0 mL	268824	01/26/19 20:59	CMR	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:56	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268500	01/22/19 17:28	TAM	TAL PIT
		Instrument ID: NOEQUIP								

TestAmerica Pittsburgh



# Lab Chronicle

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

TestAmerica Job ID: 180-85917-1

## Laboratory References:

TAL PIT = 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

Batch Type: Analysis

CMR = Carl Reagle

JAS = Joshua Schmidt

RSK = Robert Kurtz

TAM = Tessa Mastalski

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# Client Sample Results

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

TestAmerica Job ID: 180-85917-1

**Client Sample ID: GWA-1**  
**Date Collected: 01/17/19 12:06**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-1**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			01/26/19 18:23	1
Fluoride	<0.026		0.20	0.026	mg/L			01/26/19 18:23	1
Sulfate	0.50	J	1.0	0.38	mg/L			01/26/19 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/22/19 11:12	01/23/19 18:36	1
Calcium	0.74		0.25	0.12	mg/L		01/22/19 11:12	01/23/19 18:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20		10	10	mg/L			01/22/19 17:28	1

**Client Sample ID: GWA-2**  
**Date Collected: 01/17/19 13:46**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-2**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.71	mg/L			01/26/19 19:40	1
Fluoride	<0.026		0.20	0.026	mg/L			01/26/19 19:40	1
Sulfate	2.5		1.0	0.38	mg/L			01/26/19 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/22/19 11:12	01/23/19 18:39	1
Calcium	3.5		0.25	0.12	mg/L		01/22/19 11:12	01/23/19 18:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		10	10	mg/L			01/22/19 17:28	1

**Client Sample ID: GWA-3**  
**Date Collected: 01/18/19 09:30**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-3**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		1.0	0.71	mg/L			01/26/19 19:55	1
Fluoride	0.028	J	0.20	0.026	mg/L			01/26/19 19:55	1
Sulfate	34		1.0	0.38	mg/L			01/26/19 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/22/19 11:12	01/23/19 18:43	1
Calcium	10		0.25	0.12	mg/L		01/22/19 11:12	01/23/19 18:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			01/23/19 14:37	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-85917-1

**Client Sample ID: GWA-4**  
**Date Collected: 01/17/19 17:30**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-4**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			01/26/19 20:11	1
Fluoride	0.060	J	0.20	0.026	mg/L			01/26/19 20:11	1
Sulfate	9.4		1.0	0.38	mg/L			01/26/19 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/22/19 11:12	01/23/19 18:46	1
Calcium	22		0.25	0.12	mg/L		01/22/19 11:12	01/23/19 18:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			01/22/19 17:28	1

**Client Sample ID: GWA-29**  
**Date Collected: 01/18/19 10:32**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-5**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			01/26/19 20:27	1
Fluoride	2.0		0.20	0.026	mg/L			01/26/19 20:27	1
Sulfate	6.4		1.0	0.38	mg/L			01/26/19 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/22/19 11:12	01/23/19 18:49	1
Calcium	4.2		0.25	0.12	mg/L		01/22/19 11:12	01/23/19 18:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	81		10	10	mg/L			01/23/19 14:37	1

**Client Sample ID: EB-1-1-18-19**  
**Date Collected: 01/18/19 10:45**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-6**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/26/19 20:43	1
Fluoride	<0.026		0.20	0.026	mg/L			01/26/19 20:43	1
Sulfate	<0.38		1.0	0.38	mg/L			01/26/19 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/22/19 11:12	01/23/19 18:53	1
Calcium	<0.12		0.25	0.12	mg/L		01/22/19 11:12	01/23/19 18:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/23/19 14:37	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-85917-1

**Client Sample ID: DUP-1**

**Date Collected: 01/17/19 00:00**

**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-7**

**Matrix: Water**

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.6</b>		1.0	0.71	mg/L			01/26/19 20:59	1
Fluoride	<0.026		0.20	0.026	mg/L			01/26/19 20:59	1
Sulfate	<0.38		1.0	0.38	mg/L			01/26/19 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/22/19 11:12	01/23/19 18:56	1
<b>Calcium</b>	<b>0.77</b>		0.25	0.12	mg/L		01/22/19 11:12	01/23/19 18:56	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>23</b>		10	10	mg/L			01/22/19 17:28	1

# QC Sample Results

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

TestAmerica Job ID: 180-85917-1

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-268824/6**  
**Matrix: Water**  
**Analysis Batch: 268824**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/26/19 13:19	1
Fluoride	<0.026		0.20	0.026	mg/L			01/26/19 13:19	1
Sulfate	<0.38		1.0	0.38	mg/L			01/26/19 13:19	1

**Lab Sample ID: LCS 180-268824/5**  
**Matrix: Water**  
**Analysis Batch: 268824**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.1		mg/L		92	90 - 110
Fluoride	1.25	1.19		mg/L		95	90 - 110
Sulfate	25.0	22.9		mg/L		92	90 - 110

**Lab Sample ID: 180-85917-1 MS**  
**Matrix: Water**  
**Analysis Batch: 268824**

**Client Sample ID: GWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.8		25.0	25.7		mg/L		96	80 - 120
Fluoride	<0.026		1.25	1.29		mg/L		104	80 - 120
Sulfate	0.50	J	25.0	24.4		mg/L		96	80 - 120

**Lab Sample ID: 180-85917-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 268824**

**Client Sample ID: GWA-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	1.8		25.0	26.8		mg/L		100	80 - 120	4	20
Fluoride	<0.026		1.25	1.36		mg/L		109	80 - 120	5	20
Sulfate	0.50	J	25.0	25.6		mg/L		100	80 - 120	5	20

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-268457/1-A**  
**Matrix: Water**  
**Analysis Batch: 268648**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268457**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/22/19 11:12	01/23/19 18:16	1
Calcium	<0.12		0.25	0.12	mg/L		01/22/19 11:12	01/23/19 18:16	1

**Lab Sample ID: LCS 180-268457/2-A**  
**Matrix: Water**  
**Analysis Batch: 268648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268457**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.990		mg/L		99	80 - 120
Calcium	50.0	49.2		mg/L		98	80 - 120

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-85917-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-268500/2  
Matrix: Water  
Analysis Batch: 268500

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			01/22/19 17:28	1

Lab Sample ID: LCS 180-268500/1  
Matrix: Water  
Analysis Batch: 268500

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	204	218		mg/L		107	80 - 120

Lab Sample ID: MB 180-268613/2  
Matrix: Water  
Analysis Batch: 268613

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			01/23/19 14:37	1

Lab Sample ID: LCS 180-268613/1  
Matrix: Water  
Analysis Batch: 268613

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	204	230		mg/L		113	80 - 120

# QC Association Summary

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

TestAmerica Job ID: 180-85917-1

## HPLC/IC

### Analysis Batch: 268824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-1	GWA-1	Total/NA	Water	300.0	
180-85917-2	GWA-2	Total/NA	Water	300.0	
180-85917-3	GWA-3	Total/NA	Water	300.0	
180-85917-4	GWA-4	Total/NA	Water	300.0	
180-85917-5	GWA-29	Total/NA	Water	300.0	
180-85917-6	EB-1-1-18-19	Total/NA	Water	300.0	
180-85917-7	DUP-1	Total/NA	Water	300.0	
MB 180-268824/6	Method Blank	Total/NA	Water	300.0	
LCS 180-268824/5	Lab Control Sample	Total/NA	Water	300.0	
180-85917-1 MS	GWA-1	Total/NA	Water	300.0	
180-85917-1 MSD	GWA-1	Total/NA	Water	300.0	

## Metals

### Prep Batch: 268457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-1	GWA-1	Total Recoverable	Water	3005A	
180-85917-2	GWA-2	Total Recoverable	Water	3005A	
180-85917-3	GWA-3	Total Recoverable	Water	3005A	
180-85917-4	GWA-4	Total Recoverable	Water	3005A	
180-85917-5	GWA-29	Total Recoverable	Water	3005A	
180-85917-6	EB-1-1-18-19	Total Recoverable	Water	3005A	
180-85917-7	DUP-1	Total Recoverable	Water	3005A	
MB 180-268457/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-268457/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 268648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-1	GWA-1	Total Recoverable	Water	EPA 6020	268457
180-85917-2	GWA-2	Total Recoverable	Water	EPA 6020	268457
180-85917-3	GWA-3	Total Recoverable	Water	EPA 6020	268457
180-85917-4	GWA-4	Total Recoverable	Water	EPA 6020	268457
180-85917-5	GWA-29	Total Recoverable	Water	EPA 6020	268457
180-85917-6	EB-1-1-18-19	Total Recoverable	Water	EPA 6020	268457
180-85917-7	DUP-1	Total Recoverable	Water	EPA 6020	268457
MB 180-268457/1-A	Method Blank	Total Recoverable	Water	EPA 6020	268457
LCS 180-268457/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	268457

## General Chemistry

### Analysis Batch: 268500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-1	GWA-1	Total/NA	Water	SM 2540C	
180-85917-2	GWA-2	Total/NA	Water	SM 2540C	
180-85917-4	GWA-4	Total/NA	Water	SM 2540C	
180-85917-7	DUP-1	Total/NA	Water	SM 2540C	
MB 180-268500/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-268500/1	Lab Control Sample	Total/NA	Water	SM 2540C	

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-85917-1

## General Chemistry (Continued)

### Analysis Batch: 268613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-3	GWA-3	Total/NA	Water	SM 2540C	
180-85917-5	GWA-29	Total/NA	Water	SM 2540C	
180-85917-6	EB-1-1-18-19	Total/NA	Water	SM 2540C	
MB 180-268613/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-268613/1	Lab Control Sample	Total/NA	Water	SM 2540C	

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### Chain of Custody Record

<b>Client Information</b> Client Contact: <u>Joju Abraham</u> Company: <u>Southern Company</u> Address: <u>PO BOX 2641 GSC8</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35291</u> Phone: _____ Email: <u>JAbraham@southernco.com</u> Project Name: <u>CCR - Plant Wansley - Landfill</u> Site: <u>Georgia</u>		Sampler: <u>Ryan Walker</u> Lab PM: <u>Bortot, Veronica</u> Phone: <u>770-212-0052</u> E-Mail: <u>veronica.bortot@testamericainc.com</u> Carrier Tracking No(s): _____	
Due Date Requested: _____ TAT Requested (days): _____ PO #: <u>SCS10347656</u> WO #: _____ Project #: _____ 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: _____ M - Hexane N - None O - Ash/NaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification <u>GWA-1</u> <u>GWA-2</u> <u>GWA-3</u> <u>GWA-4</u> <u>FWA-29</u> <u>EB-1-1-18-19</u> <u>Dup-1</u>		Total Number of Containers: _____ Special Instructions: APP III	
Sample Date <u>1-17-19</u> <u>1-17-19</u> <u>1-18-19</u> <u>1-17-19</u> <u>1-18-19</u> <u>1-17-19</u>	Sample Time <u>1206</u> <u>1346</u> <u>0930</u> <u>1730</u> <u>1032</u> <u>1045</u> <u>-</u>	Sample Type (C=Comp, G=grab) <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u>	Matrix (W=water, S=solid, O=wastebott, BT=Tissue, A=Air) <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u>
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App. III (EPA 6020/7470) Cl, F, SO <sub>4</sub> , & TDS (EPA 300.0 & SM 2540C)		Preservation Code: X <u>D</u> N X <u>N</u> V X <u>N</u> V X <u>N</u> V X <u>N</u> V X <u>N</u> V X <u>N</u> V X <u>N</u> V X <u>N</u> V	
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) Empty Kit Relinquished by: _____ Date: _____		Special Instructions/QC Requirements: Method of Shipment: _____	
Relinquished by: <u>Ryan Walker</u> Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u> Received by: <u>[Signature]</u> Received by: <u>[Signature]</u>	
Date: <u>1-18-19</u> Date: <u>1/18/19</u> Date: <u>1/18/19</u>		Date/Time: <u>13:30</u> Date/Time: <u>16:10</u> Date/Time: <u>13:30</u>	
Custody Seals Intact: <u>Yes</u> Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____	



Chain of Custody Record

Client Information		Lab PM		Carrier Tracking Note(s)	
Southern Company		Bortot, Veronica			
Address: PO BOX 2641 GSC8		E-Mail: veronica.bortot@testamericainc.com			
City: Birmingham		State, Zip: AL, 35291			
Phone:		PO #: SCS10347656			
Email: JAbraham@southernco.com		WO #:			
Project Name: CCR - Plant Wansley - Landfill		Project #: 18019922			
Site: Georgia		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested		Total Number of Containers	Special Instructions/Note:
					X	D	X	D				
GWA-1	1-17-19	1206	G	Water	N	N	N	N			1	STATE METALS LIST ONLY Bottles stored in 4th
GWA-2	1-17-19	1346	G	Water	N	N	N	N			1	APP III
GWA-3	1-18-19	0930	G	Water	N	N	N	N			1	
GWA-4	1-17-19	1730	G	Water	N	N	N	N			1	
GWA-29	1-18-19	1032	G	Water	N	N	N	N			1	
EB-1-18-19	1-18-19	1045	G	Water	N	N	N	N			1	
Dup-1	1-17-19	-	G	Water	N	N	N	N			1	
				Water								
				Water								
				Water								
				Water								

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B
<input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify)	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	<input type="checkbox"/> Archive For _____ Months
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>	Date: 1-18-19	Date/Time: 1/18/19 13:30	
Relinquished by: <i>[Signature]</i>	Date: 1/18/19	Date/Time: 1/18/19 16:00	
Relinquished by: <i>[Signature]</i>	Date: 1/19-19	Date/Time: 1/19-19 19:30	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Cooler Temperature(s) °C and Other Remarks:		



12:00  
5  
3068  
01.19  
A

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Custody

SIGNATURE

TestAmerica

722159

ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE

SHIP DATE: 18 JAN 19  
ACTWGT: 39.80 LB  
CAD: 859116/CAFE3211

NORCROSS, GA 30093  
UNITED STATES US

BILL RECEIPT

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**

**PITTSBURGH PA 15238**

(412) 963-7058

REF: SOUTHERN CO



**FedEx**  
Express



180-85917 Waybil

TRK# 4651 0080 3000  
0201

**PRIORITY OVERNIGHT**

**XO AGCA**

**15238**  
PA-US **PIT**

Uncorrected temp  
Thermometer ID

1.2  
1.0 °C

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18



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## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-85917-1

**Login Number: 85917**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-85917-2

TestAmerica Sample Delivery Group: State

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/1/2019 4:16:29 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-85917-2  
SDG: State

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**Job ID: 180-85917-2**

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**Laboratory: TestAmerica Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-85917-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 1/19/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

**Metals**

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

TestAmerica Job ID: 180-85917-2  
SDG: State

## 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)
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

TestAmerica Job ID: 180-85917-2  
SDG: State

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-85917-2  
SDG: State

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-85917-1	GWA-1	Water	01/17/19 12:06	01/19/19 09:30
180-85917-2	GWA-2	Water	01/17/19 13:46	01/19/19 09:30
180-85917-3	GWA-3	Water	01/18/19 09:30	01/19/19 09:30
180-85917-4	GWA-4	Water	01/17/19 17:30	01/19/19 09:30
180-85917-5	GWA-29	Water	01/18/19 10:32	01/19/19 09:30
180-85917-6	EB-1-1-18-19	Water	01/18/19 10:45	01/19/19 09:30
180-85917-7	DUP-1	Water	01/17/19 00:00	01/19/19 09:30



# Method Summary

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

TestAmerica Job ID: 180-85917-2  
SDG: State

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

**Laboratory References:**

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



# Lab Chronicle

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

TestAmerica Job ID: 180-85917-2  
SDG: State

**Client Sample ID: GWA-1**

**Date Collected: 01/17/19 12:06**

**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-1**

**Matrix: 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	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:36	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	269258	01/31/19 12:35	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269374	02/01/19 12:13	KA	TAL PIT
		Instrument ID: HGY								

**Client Sample ID: GWA-2**

**Date Collected: 01/17/19 13:46**

**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-2**

**Matrix: 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	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:39	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	269258	01/31/19 12:35	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269374	02/01/19 12:14	KA	TAL PIT
		Instrument ID: HGY								

**Client Sample ID: GWA-3**

**Date Collected: 01/18/19 09:30**

**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-3**

**Matrix: 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	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:43	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	269258	01/31/19 12:35	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269374	02/01/19 12:15	KA	TAL PIT
		Instrument ID: HGY								

**Client Sample ID: GWA-4**

**Date Collected: 01/17/19 17:30**

**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-4**

**Matrix: 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	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:46	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	269258	01/31/19 12:35	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269374	02/01/19 12:16	KA	TAL PIT
		Instrument ID: HGY								

# Lab Chronicle

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

TestAmerica Job ID: 180-85917-2  
SDG: State

**Client Sample ID: GWA-29**

**Lab Sample ID: 180-85917-5**

**Date Collected: 01/18/19 10:32**

**Matrix: Water**

**Date Received: 01/19/19 09:30**

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	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:49	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269258	01/31/19 12:35	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269374	02/01/19 12:17	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: EB-1-1-18-19**

**Lab Sample ID: 180-85917-6**

**Date Collected: 01/18/19 10:45**

**Matrix: Water**

**Date Received: 01/19/19 09:30**

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	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:53	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269258	01/31/19 12:35	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269374	02/01/19 12:18	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: DUP-1**

**Lab Sample ID: 180-85917-7**

**Date Collected: 01/17/19 00:00**

**Matrix: Water**

**Date Received: 01/19/19 09:30**

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	268457	01/22/19 11:12	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			268648	01/23/19 18:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269258	01/31/19 12:35	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269374	02/01/19 12:22	KA	TAL PIT
Instrument ID: HGY										

**Laboratory References:**

TAL PIT = 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

KA = Kayla Kalamasz

RSK = Robert Kurtz

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-85917-2  
SDG: State

**Client Sample ID: GWA-1**  
**Date Collected: 01/17/19 12:06**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-1**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/22/19 11:12	01/23/19 18:36	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/22/19 11:12	01/23/19 18:36	1
<b>Barium</b>	<b>0.010</b>		0.0025	0.00037	mg/L		01/22/19 11:12	01/23/19 18:36	1
<b>Beryllium</b>	<b>0.000074</b>	<b>J</b>	0.0025	0.000057	mg/L		01/22/19 11:12	01/23/19 18:36	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/22/19 11:12	01/23/19 18:36	1
<b>Cobalt</b>	<b>0.00033</b>	<b>J</b>	0.0025	0.000075	mg/L		01/22/19 11:12	01/23/19 18:36	1
<b>Chromium</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.00063	mg/L		01/22/19 11:12	01/23/19 18:36	1
Copper	<0.0013		0.0020	0.0013	mg/L		01/22/19 11:12	01/23/19 18:36	1
<b>Nickel</b>	<b>0.00094</b>	<b>J</b>	0.0010	0.00031	mg/L		01/22/19 11:12	01/23/19 18:36	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/22/19 11:12	01/23/19 18:36	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/22/19 11:12	01/23/19 18:36	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/22/19 11:12	01/23/19 18:36	1
<b>Thallium</b>	<b>0.000066</b>	<b>J</b>	0.00050	0.000063	mg/L		01/22/19 11:12	01/23/19 18:36	1
<b>Vanadium</b>	<b>0.0012</b>		0.0010	0.00090	mg/L		01/22/19 11:12	01/23/19 18:36	1
<b>Zinc</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0024	mg/L		01/22/19 11:12	01/23/19 18:36	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		01/31/19 12:35	02/01/19 12:13	1

**Client Sample ID: GWA-2**  
**Date Collected: 01/17/19 13:46**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/22/19 11:12	01/23/19 18:39	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/22/19 11:12	01/23/19 18:39	1
<b>Barium</b>	<b>0.010</b>		0.0025	0.00037	mg/L		01/22/19 11:12	01/23/19 18:39	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/22/19 11:12	01/23/19 18:39	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/22/19 11:12	01/23/19 18:39	1
<b>Cobalt</b>	<b>0.00018</b>	<b>J</b>	0.0025	0.000075	mg/L		01/22/19 11:12	01/23/19 18:39	1
<b>Chromium</b>	<b>0.0016</b>	<b>J</b>	0.0025	0.00063	mg/L		01/22/19 11:12	01/23/19 18:39	1
Copper	<0.0013		0.0020	0.0013	mg/L		01/22/19 11:12	01/23/19 18:39	1
<b>Nickel</b>	<b>0.0011</b>		0.0010	0.00031	mg/L		01/22/19 11:12	01/23/19 18:39	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/22/19 11:12	01/23/19 18:39	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/22/19 11:12	01/23/19 18:39	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/22/19 11:12	01/23/19 18:39	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/22/19 11:12	01/23/19 18:39	1
<b>Vanadium</b>	<b>0.0016</b>		0.0010	0.00090	mg/L		01/22/19 11:12	01/23/19 18:39	1
<b>Zinc</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0024	mg/L		01/22/19 11:12	01/23/19 18:39	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		01/31/19 12:35	02/01/19 12:14	1

# Client Sample Results

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

TestAmerica Job ID: 180-85917-2  
SDG: State

**Client Sample ID: GWA-3**  
**Date Collected: 01/18/19 09:30**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-3**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/22/19 11:12	01/23/19 18:43	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/22/19 11:12	01/23/19 18:43	1
<b>Barium</b>	<b>0.033</b>		0.0025	0.00037	mg/L		01/22/19 11:12	01/23/19 18:43	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/22/19 11:12	01/23/19 18:43	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/22/19 11:12	01/23/19 18:43	1
<b>Cobalt</b>	<b>0.00011</b>	<b>J</b>	0.0025	0.000075	mg/L		01/22/19 11:12	01/23/19 18:43	1
<b>Chromium</b>	<b>0.0017</b>	<b>J</b>	0.0025	0.00063	mg/L		01/22/19 11:12	01/23/19 18:43	1
Copper	<0.0013		0.0020	0.0013	mg/L		01/22/19 11:12	01/23/19 18:43	1
<b>Nickel</b>	<b>0.00087</b>	<b>J</b>	0.0010	0.00031	mg/L		01/22/19 11:12	01/23/19 18:43	1
<b>Lead</b>	<b>0.00011</b>	<b>J</b>	0.0010	0.000094	mg/L		01/22/19 11:12	01/23/19 18:43	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/22/19 11:12	01/23/19 18:43	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/22/19 11:12	01/23/19 18:43	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/22/19 11:12	01/23/19 18:43	1
<b>Vanadium</b>	<b>0.0019</b>		0.0010	0.00090	mg/L		01/22/19 11:12	01/23/19 18:43	1
<b>Zinc</b>	<b>0.0088</b>		0.0050	0.0024	mg/L		01/22/19 11:12	01/23/19 18:43	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		01/31/19 12:35	02/01/19 12:15	1

**Client Sample ID: GWA-4**  
**Date Collected: 01/17/19 17:30**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/22/19 11:12	01/23/19 18:46	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/22/19 11:12	01/23/19 18:46	1
<b>Barium</b>	<b>0.12</b>		0.0025	0.00037	mg/L		01/22/19 11:12	01/23/19 18:46	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/22/19 11:12	01/23/19 18:46	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/22/19 11:12	01/23/19 18:46	1
<b>Cobalt</b>	<b>0.0038</b>		0.0025	0.000075	mg/L		01/22/19 11:12	01/23/19 18:46	1
<b>Chromium</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.00063	mg/L		01/22/19 11:12	01/23/19 18:46	1
Copper	<0.0013		0.0020	0.0013	mg/L		01/22/19 11:12	01/23/19 18:46	1
<b>Nickel</b>	<b>0.0017</b>		0.0010	0.00031	mg/L		01/22/19 11:12	01/23/19 18:46	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/22/19 11:12	01/23/19 18:46	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/22/19 11:12	01/23/19 18:46	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/22/19 11:12	01/23/19 18:46	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/22/19 11:12	01/23/19 18:46	1
<b>Vanadium</b>	<b>0.0016</b>		0.0010	0.00090	mg/L		01/22/19 11:12	01/23/19 18:46	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/22/19 11:12	01/23/19 18:46	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		01/31/19 12:35	02/01/19 12:16	1

# Client Sample Results

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

TestAmerica Job ID: 180-85917-2  
SDG: State

**Client Sample ID: GWA-29**

**Date Collected: 01/18/19 10:32**

**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-5**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00061</b>	<b>J</b>	0.0010	0.00012	mg/L		01/22/19 11:12	01/23/19 18:49	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/22/19 11:12	01/23/19 18:49	1
<b>Barium</b>	<b>0.00070</b>	<b>J</b>	0.0025	0.00037	mg/L		01/22/19 11:12	01/23/19 18:49	1
<b>Beryllium</b>	<b>0.0021</b>	<b>J</b>	0.0025	0.000057	mg/L		01/22/19 11:12	01/23/19 18:49	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/22/19 11:12	01/23/19 18:49	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/22/19 11:12	01/23/19 18:49	1
<b>Chromium</b>	<b>0.0020</b>	<b>J</b>	0.0025	0.00063	mg/L		01/22/19 11:12	01/23/19 18:49	1
<b>Copper</b>	<b>0.0059</b>		0.0020	0.0013	mg/L		01/22/19 11:12	01/23/19 18:49	1
<b>Nickel</b>	<b>0.0022</b>		0.0010	0.00031	mg/L		01/22/19 11:12	01/23/19 18:49	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/22/19 11:12	01/23/19 18:49	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/22/19 11:12	01/23/19 18:49	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/22/19 11:12	01/23/19 18:49	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/22/19 11:12	01/23/19 18:49	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		01/22/19 11:12	01/23/19 18:49	1
<b>Zinc</b>	<b>0.022</b>		0.0050	0.0024	mg/L		01/22/19 11:12	01/23/19 18:49	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		01/31/19 12:35	02/01/19 12:17	1

**Client Sample ID: EB-1-1-18-19**

**Date Collected: 01/18/19 10:45**

**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-6**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/22/19 11:12	01/23/19 18:53	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/22/19 11:12	01/23/19 18:53	1
Barium	<0.00037		0.0025	0.00037	mg/L		01/22/19 11:12	01/23/19 18:53	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/22/19 11:12	01/23/19 18:53	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/22/19 11:12	01/23/19 18:53	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/22/19 11:12	01/23/19 18:53	1
<b>Chromium</b>	<b>0.0019</b>	<b>J</b>	0.0025	0.00063	mg/L		01/22/19 11:12	01/23/19 18:53	1
Copper	<0.0013		0.0020	0.0013	mg/L		01/22/19 11:12	01/23/19 18:53	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/22/19 11:12	01/23/19 18:53	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/22/19 11:12	01/23/19 18:53	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/22/19 11:12	01/23/19 18:53	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/22/19 11:12	01/23/19 18:53	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/22/19 11:12	01/23/19 18:53	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		01/22/19 11:12	01/23/19 18:53	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/22/19 11:12	01/23/19 18:53	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		01/31/19 12:35	02/01/19 12:18	1



# Client Sample Results

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

TestAmerica Job ID: 180-85917-2  
 SDG: State

**Client Sample ID: DUP-1**  
**Date Collected: 01/17/19 00:00**  
**Date Received: 01/19/19 09:30**

**Lab Sample ID: 180-85917-7**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/22/19 11:12	01/23/19 18:56	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/22/19 11:12	01/23/19 18:56	1
<b>Barium</b>	<b>0.010</b>		0.0025	0.00037	mg/L		01/22/19 11:12	01/23/19 18:56	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/22/19 11:12	01/23/19 18:56	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/22/19 11:12	01/23/19 18:56	1
<b>Cobalt</b>	<b>0.00019</b>	<b>J</b>	0.0025	0.000075	mg/L		01/22/19 11:12	01/23/19 18:56	1
<b>Chromium</b>	<b>0.0017</b>	<b>J</b>	0.0025	0.00063	mg/L		01/22/19 11:12	01/23/19 18:56	1
Copper	<0.0013		0.0020	0.0013	mg/L		01/22/19 11:12	01/23/19 18:56	1
<b>Nickel</b>	<b>0.0010</b>		0.0010	0.00031	mg/L		01/22/19 11:12	01/23/19 18:56	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/22/19 11:12	01/23/19 18:56	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/22/19 11:12	01/23/19 18:56	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/22/19 11:12	01/23/19 18:56	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/22/19 11:12	01/23/19 18:56	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00090	mg/L		01/22/19 11:12	01/23/19 18:56	1
<b>Zinc</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0024	mg/L		01/22/19 11:12	01/23/19 18:56	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		01/31/19 12:35	02/01/19 12:22	1

# QC Sample Results

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

TestAmerica Job ID: 180-85917-2  
SDG: State

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-268457/1-A**  
**Matrix: Water**  
**Analysis Batch: 268648**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268457**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/22/19 11:12	01/23/19 18:16	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/22/19 11:12	01/23/19 18:16	1
Barium	<0.00037		0.0025	0.00037	mg/L		01/22/19 11:12	01/23/19 18:16	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/22/19 11:12	01/23/19 18:16	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/22/19 11:12	01/23/19 18:16	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/22/19 11:12	01/23/19 18:16	1
Chromium	<0.00063		0.0025	0.00063	mg/L		01/22/19 11:12	01/23/19 18:16	1
Copper	<0.0013		0.0020	0.0013	mg/L		01/22/19 11:12	01/23/19 18:16	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/22/19 11:12	01/23/19 18:16	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/22/19 11:12	01/23/19 18:16	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/22/19 11:12	01/23/19 18:16	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/22/19 11:12	01/23/19 18:16	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/22/19 11:12	01/23/19 18:16	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		01/22/19 11:12	01/23/19 18:16	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/22/19 11:12	01/23/19 18:16	1

**Lab Sample ID: LCS 180-268457/2-A**  
**Matrix: Water**  
**Analysis Batch: 268648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268457**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.0500	0.0512		mg/L		102	80 - 120
Arsenic	0.0400	0.0363		mg/L		91	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Beryllium	0.0500	0.0505		mg/L		101	80 - 120
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Cobalt	0.500	0.459		mg/L		92	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Copper	0.250	0.241		mg/L		97	80 - 120
Nickel	0.500	0.537		mg/L		107	80 - 120
Lead	0.0200	0.0201		mg/L		101	80 - 120
Antimony	0.500	0.537		mg/L		107	80 - 120
Selenium	0.0100	0.00938		mg/L		94	80 - 120
Thallium	0.0500	0.0468		mg/L		94	80 - 120
Vanadium	0.500	0.508		mg/L		102	80 - 120
Zinc	0.500	0.451		mg/L		90	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-269258/1-A**  
**Matrix: Water**  
**Analysis Batch: 269298**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 269258**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		01/31/19 12:35	01/31/19 17:28	1

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-85917-2  
SDG: State

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-269258/2-A  
Matrix: Water  
Analysis Batch: 269298

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 269258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00244		mg/L		98	80 - 120

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# QC Association Summary

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

TestAmerica Job ID: 180-85917-2  
SDG: State

## Metals

### Prep Batch: 268457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-1	GWA-1	Total Recoverable	Water	3005A	
180-85917-2	GWA-2	Total Recoverable	Water	3005A	
180-85917-3	GWA-3	Total Recoverable	Water	3005A	
180-85917-4	GWA-4	Total Recoverable	Water	3005A	
180-85917-5	GWA-29	Total Recoverable	Water	3005A	
180-85917-6	EB-1-1-18-19	Total Recoverable	Water	3005A	
180-85917-7	DUP-1	Total Recoverable	Water	3005A	
MB 180-268457/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-268457/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 268648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-1	GWA-1	Total Recoverable	Water	EPA 6020	268457
180-85917-2	GWA-2	Total Recoverable	Water	EPA 6020	268457
180-85917-3	GWA-3	Total Recoverable	Water	EPA 6020	268457
180-85917-4	GWA-4	Total Recoverable	Water	EPA 6020	268457
180-85917-5	GWA-29	Total Recoverable	Water	EPA 6020	268457
180-85917-6	EB-1-1-18-19	Total Recoverable	Water	EPA 6020	268457
180-85917-7	DUP-1	Total Recoverable	Water	EPA 6020	268457
MB 180-268457/1-A	Method Blank	Total Recoverable	Water	EPA 6020	268457
LCS 180-268457/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	268457

### Prep Batch: 269258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-1	GWA-1	Total/NA	Water	7470A	
180-85917-2	GWA-2	Total/NA	Water	7470A	
180-85917-3	GWA-3	Total/NA	Water	7470A	
180-85917-4	GWA-4	Total/NA	Water	7470A	
180-85917-5	GWA-29	Total/NA	Water	7470A	
180-85917-6	EB-1-1-18-19	Total/NA	Water	7470A	
180-85917-7	DUP-1	Total/NA	Water	7470A	
MB 180-269258/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-269258/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 269298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-269258/1-A	Method Blank	Total/NA	Water	EPA 7470A	269258
LCS 180-269258/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	269258

### Analysis Batch: 269374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85917-1	GWA-1	Total/NA	Water	EPA 7470A	269258
180-85917-2	GWA-2	Total/NA	Water	EPA 7470A	269258
180-85917-3	GWA-3	Total/NA	Water	EPA 7470A	269258
180-85917-4	GWA-4	Total/NA	Water	EPA 7470A	269258
180-85917-5	GWA-29	Total/NA	Water	EPA 7470A	269258
180-85917-6	EB-1-1-18-19	Total/NA	Water	EPA 7470A	269258
180-85917-7	DUP-1	Total/NA	Water	EPA 7470A	269258

TestAmerica Pittsburgh

# Chain of Custody Record

<b>Client Information</b> Client Contact: <u>Joju Abraham</u> Company: <u>Southern Company</u> Address: <u>PO BOX 2641 GSC8</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35291</u> Phone: _____ Email: <u>JAbraham@southernco.com</u> Project Name: <u>CCR - Plant Wansley - Landfill</u> Site: <u>Georgia</u>		Sampler: <u>Ryan Walker</u> Lab PM: <u>Bortot, Veronica</u> Phone: <u>770-212-0052</u> E-Mail: <u>veronica.bortot@testamericainc.com</u> Carrier Tracking No(s): _____	
Due Date Requested: _____ TAT Requested (days): _____ PO #: <u>SCS10347656</u> WO #: _____ Project #: _____ 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: _____ M - Hexane N - None O - Ash/NaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification <u>GWA-1</u> <u>GWA-2</u> <u>GWA-3</u> <u>GWA-4</u> <u>FWA-29</u> <u>EB-1-1-18-19</u> <u>Dup-1</u>		Total Number of Containers: _____ Special Instructions/ APP III	
Sample Date <u>1-17-19</u> <u>1-17-19</u> <u>1-18-19</u> <u>1-17-19</u> <u>1-18-19</u> <u>1-17-19</u>		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App. III (EPA 6020/7470) Cl, F, SO <sub>4</sub> & TDS (EPA 300.0 & SM 2540C)	
Sample Time <u>1206</u> <u>1346</u> <u>0930</u> <u>1730</u> <u>1032</u> <u>1045</u> <u>-</u>		Matrix (W=water, S=solid, O=wastebott, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water Water	
Sample Type (C=Comp, G=grab) <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u>		Preservation Code: D N N N N N N N N N N	
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: <u>Ryan Walker</u> Relinquished by: _____ Relinquished by: _____		Received by: <u>Michelle Watson</u> Received by: _____ Received by: _____	
Date/Time: <u>1-18-19 13:30</u> Date/Time: <u>1-18-19 16:00</u> Date/Time: _____		Date/Time: <u>1-18-19 13:30</u> Date/Time: <u>1-19-19 9:30</u> Date/Time: _____	
Company: <u>Acc</u> Company: <u>TA</u> Company: _____		Company: <u>TA</u> Company: <u>API</u> Company: _____	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: _____	



### Chain of Custody Record

Client Information		Lab PM		Carrier Tracking Note(s)							
Southern Company		Bortot, Veronica									
Address: PO BOX 2641 GSC8		E-Mail: veronica.bortot@testamericainc.com									
City: Birmingham		Phone: 770-312-0052									
State, Zip: AL, 35291		Project #: 18019922									
Phone:		SSOW#:									
Email: JAbraham@southernco.com		Due Date Requested:									
Project Name: CCR - Plant Wansley - Landfill		TAT Requested (days):									
Site: Georgia		PO #: SCS10347656									
		WO #:									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	State Permit Metals (EPA 6020 & 7470) As, Ba, Be, Bi, Br, Cd, Ca, Cr, Co, Cu, Pb, Ni, Sb, Se, Hg, Tl, V, Zn, Hg	Analysis Requested	Preservation Codes:	Total Number of Containers	Special Instructions/Note:
GWA-1	1-17-19	1206	G	Water	N	N			A - HCl M - Hexane N - None O - AsNaO2 P - NaZOMS Q - NaZSO3 R - NaZSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)	1	STATE METALS LIST ONLY Bottles stored in 4
GWA-2	1-17-19	1346	G	Water	N	N				1	APP III
GWA-3	1-18-19	0930	G	Water	N	N				1	
GWA-4	1-17-19	1730	G	Water	N	N				1	
GWA-29	1-18-19	1032	G	Water	N	N				1	
EB-1-18-19	1-18-19	1045	G	Water	N	N				1	
Dup-1	1-17-19	-	G	Water	N	N				1	
				Water							
				Water							
				Water							
				Water							

**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:**

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
<i>[Signature]</i>	1/18/19 11:18	ACC	<i>[Signature]</i>	1/18/19 13:30	TA
<i>[Signature]</i>	1/18/19 16:00	TA	<i>[Signature]</i>		TA
<i>[Signature]</i>		TA	<i>[Signature]</i>		TA

**Empty Kit Relinquished by:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Custody Seals Intact:**  Yes  No  Δ

**Cooler Temperature(s) °C and Other Remarks:**



12:00  
5  
3068  
01.19  
A

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Custody

SIGNATURE

TestAmerica

722159

ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE

SHIP DATE: 18 JAN 19  
ACTWGT: 39.80 LB  
CAD: 859116/CAFE3211

NORCROSS, GA 30093  
UNITED STATES US

BILL RECEIPT

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**

**PITTSBURGH PA 15238**

(412) 963-7058  
REF: SOUTHERN CO



180-85917 Waybil

TRK# 4651 0080 3000  
0201

**PRIORITY OVERNIGHT**

# XO AGCA

**15238**  
PA-US **PIT**

Uncorrected temp  
Thermometer ID

1.2  
1.0 °C

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-85917-2

SDG Number: State

**Login Number: 85917**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-85993-1

TestAmerica Sample Delivery Group: Appendix III

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/12/2019 4:37:43 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

**Job ID: 180-85993-1**

**Laboratory: TestAmerica Pittsburgh**

## Narrative

**Job Narrative**  
**180-85993-1**

### Comments

No additional comments.

### Receipt

The samples were received on 1/24/2019 9:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

### Anions

Method(s) 300.0: The matrix spike (MS) recovery for analytical batch 180-269047 was outside control limits for Chloride. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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.

### 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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

## 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.
F1	MS and/or MSD Recovery is outside acceptance limits.

### 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)
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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-85993-1	GWA-28	Ground Water	01/21/19 16:00	01/24/19 09:12
180-85993-2	GWC-35	Ground Water	01/21/19 16:55	01/24/19 09:12
180-85993-3	GWC-7	Ground Water	01/21/19 17:10	01/24/19 09:12
180-85993-4	FB-1-1-22-19	Water	01/22/19 11:10	01/24/19 09:12
180-85993-5	GWC-13	Ground Water	01/22/19 12:20	01/24/19 09:12
180-85993-6	GWC-14	Ground Water	01/22/19 14:10	01/24/19 09:12
180-85993-7	GWC-15	Ground Water	01/22/19 15:15	01/24/19 09:12
180-85993-8	GWC-8	Ground Water	01/22/19 13:35	01/24/19 09:12
180-85993-9	GWC-9	Ground Water	01/22/19 15:25	01/24/19 09:12
180-85993-10	DUP-2	Water	01/22/19 00:00	01/24/19 09:12

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# Method Summary

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

#### Protocol References:

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

# Lab Chronicle

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

**Client Sample ID: GWA-28**  
**Date Collected: 01/21/19 16:00**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-1**  
**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			269047	01/30/19 09:47	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268890	01/28/19 10:58	JAS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-35**  
**Date Collected: 01/21/19 16:55**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-2**  
**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			269047	01/30/19 10:35	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268890	01/28/19 10:58	JAS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-7**  
**Date Collected: 01/21/19 17:10**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-3**  
**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			269047	01/30/19 11:23	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268890	01/28/19 10:58	JAS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-1-1-22-19**  
**Date Collected: 01/22/19 11:10**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-4**  
**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	300.0		1			268940	01/29/19 14:53	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT



# Lab Chronicle

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

## Client Sample ID: FB-1-1-22-19

## Lab Sample ID: 180-85993-4

Date Collected: 01/22/19 11:10

Matrix: Water

Date Received: 01/24/19 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:25	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268890	01/28/19 10:58	JAS	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: GWC-13

## Lab Sample ID: 180-85993-5

Date Collected: 01/22/19 12:20

Matrix: Ground Water

Date Received: 01/24/19 09:12

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			268940	01/29/19 15:09	CMR	TAL PIT
	Instrument ID: CHIC2100A									
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:28	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268890	01/28/19 10:58	JAS	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: GWC-14

## Lab Sample ID: 180-85993-6

Date Collected: 01/22/19 14:10

Matrix: Ground Water

Date Received: 01/24/19 09:12

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			268940	01/29/19 15:24	CMR	TAL PIT
	Instrument ID: CHIC2100A									
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:39	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268890	01/28/19 10:58	JAS	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: GWC-15

## Lab Sample ID: 180-85993-7

Date Collected: 01/22/19 15:15

Matrix: Ground Water

Date Received: 01/24/19 09:12

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			268940	01/29/19 15:39	CMR	TAL PIT
	Instrument ID: CHIC2100A									
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:42	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268890	01/28/19 10:58	JAS	TAL PIT
	Instrument ID: NOEQUIP									

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

**Client Sample ID: GWC-8**

**Date Collected: 01/22/19 13:35**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-8**

**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			268940	01/29/19 16:25	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:45	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268898	01/28/19 11:46	JAS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-9**

**Date Collected: 01/22/19 15:25**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-9**

**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			268940	01/29/19 16:40	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:49	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268898	01/28/19 11:46	JAS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: DUP-2**

**Date Collected: 01/22/19 00:00**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-10**

**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			268940	01/29/19 16:56	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:52	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	268898	01/28/19 11:46	JAS	TAL PIT
Instrument ID: NOEQUIP										

**Laboratory References:**

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

# Lab Chronicle

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

**Analyst References:**

- Lab: TAL PIT
  - Batch Type: Prep
    - RJR = Ron Rosenbaum
  - Batch Type: Analysis
    - CMR = Carl Reagle
    - JAS = Joshua Schmidt
    - MJH = Matthew Hartman
    - RSK = Robert Kurtz



# Client Sample Results

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

**Client Sample ID: GWA-28**  
Date Collected: 01/21/19 16:00  
Date Received: 01/24/19 09:12

**Lab Sample ID: 180-85993-1**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			01/30/19 09:47	1
Fluoride	1.6		0.20	0.026	mg/L			01/30/19 09:47	1
Sulfate	1.6		1.0	0.38	mg/L			01/30/19 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:15	1
Calcium	3.0		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	58		10	10	mg/L			01/28/19 10:58	1

**Client Sample ID: GWC-35**  
Date Collected: 01/21/19 16:55  
Date Received: 01/24/19 09:12

**Lab Sample ID: 180-85993-2**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5	F1	1.0	0.71	mg/L			01/30/19 10:35	1
Fluoride	0.031	J	0.20	0.026	mg/L			01/30/19 10:35	1
Sulfate	2.7		1.0	0.38	mg/L			01/30/19 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:18	1
Calcium	2.0		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	17		10	10	mg/L			01/28/19 10:58	1

**Client Sample ID: GWC-7**  
Date Collected: 01/21/19 17:10  
Date Received: 01/24/19 09:12

**Lab Sample ID: 180-85993-3**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		1.0	0.71	mg/L			01/30/19 11:23	1
Fluoride	0.22		0.20	0.026	mg/L			01/30/19 11:23	1
Sulfate	64		1.0	0.38	mg/L			01/30/19 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:22	1
Calcium	52		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10	10	mg/L			01/28/19 10:58	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

**Client Sample ID: FB-1-1-22-19**

**Lab Sample ID: 180-85993-4**

Date Collected: 01/22/19 11:10

Matrix: Water

Date Received: 01/24/19 09:12

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/29/19 14:53	1
<b>Fluoride</b>	<b>0.027</b>	<b>J</b>	0.20	0.026	mg/L			01/29/19 14:53	1
Sulfate	<0.38		1.0	0.38	mg/L			01/29/19 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:25	1
Calcium	<0.12		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/28/19 10:58	1

**Client Sample ID: GWC-13**

**Lab Sample ID: 180-85993-5**

Date Collected: 01/22/19 12:20

Matrix: Ground Water

Date Received: 01/24/19 09:12

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			01/29/19 15:09	1
<b>Fluoride</b>	<b>0.10</b>	<b>J</b>	0.20	0.026	mg/L			01/29/19 15:09	1
Sulfate	2.8		1.0	0.38	mg/L			01/29/19 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:28	1
<b>Calcium</b>	<b>4.4</b>		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		10	10	mg/L			01/28/19 10:58	1

**Client Sample ID: GWC-14**

**Lab Sample ID: 180-85993-6**

Date Collected: 01/22/19 14:10

Matrix: Ground Water

Date Received: 01/24/19 09:12

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80		1.0	0.71	mg/L			01/29/19 15:24	1
<b>Fluoride</b>	<b>0.057</b>	<b>J</b>	0.20	0.026	mg/L			01/29/19 15:24	1
Sulfate	13		1.0	0.38	mg/L			01/29/19 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Boron</b>	<b>0.63</b>		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Calcium</b>	<b>25</b>		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			01/28/19 10:58	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

**Client Sample ID: GWC-15**  
Date Collected: 01/22/19 15:15  
Date Received: 01/24/19 09:12

**Lab Sample ID: 180-85993-7**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		1.0	0.71	mg/L			01/29/19 15:39	1
Fluoride	0.071	J	0.20	0.026	mg/L			01/29/19 15:39	1
Sulfate	2.0		1.0	0.38	mg/L			01/29/19 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.10		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:42	1
Calcium	13		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	79		10	10	mg/L			01/28/19 10:58	1

**Client Sample ID: GWC-8**  
Date Collected: 01/22/19 13:35  
Date Received: 01/24/19 09:12

**Lab Sample ID: 180-85993-8**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.71	mg/L			01/29/19 16:25	1
Fluoride	0.062	J	0.20	0.026	mg/L			01/29/19 16:25	1
Sulfate	12		1.0	0.38	mg/L			01/29/19 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:45	1
Calcium	22		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		10	10	mg/L			01/28/19 11:46	1

**Client Sample ID: GWC-9**  
Date Collected: 01/22/19 15:25  
Date Received: 01/24/19 09:12

**Lab Sample ID: 180-85993-9**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		1.0	0.71	mg/L			01/29/19 16:40	1
Fluoride	0.065	J	0.20	0.026	mg/L			01/29/19 16:40	1
Sulfate	12		1.0	0.38	mg/L			01/29/19 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.038	J	0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:49	1
Calcium	11		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	68		10	10	mg/L			01/28/19 11:46	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

**Client Sample ID: DUP-2**

**Date Collected: 01/22/19 00:00**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-10**

**Matrix: Water**

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		1.0	0.71	mg/L			01/29/19 16:56	1
Fluoride	0.040	J	0.20	0.026	mg/L			01/29/19 16:56	1
Sulfate	2.0		1.0	0.38	mg/L			01/29/19 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.091		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 16:52	1
Calcium	13		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 16:52	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	96		10	10	mg/L			01/28/19 11:46	1

# QC Sample Results

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-268940/6**  
**Matrix: Water**  
**Analysis Batch: 268940**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/29/19 05:04	1
Fluoride	<0.026		0.20	0.026	mg/L			01/29/19 05:04	1
Sulfate	<0.38		1.0	0.38	mg/L			01/29/19 05:04	1

**Lab Sample ID: LCS 180-268940/5**  
**Matrix: Water**  
**Analysis Batch: 268940**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.3		mg/L		97	90 - 110
Fluoride	1.25	1.26		mg/L		101	90 - 110
Sulfate	25.0	24.5		mg/L		98	90 - 110

**Lab Sample ID: MB 180-269047/6**  
**Matrix: Water**  
**Analysis Batch: 269047**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/30/19 04:17	1
Fluoride	<0.026		0.20	0.026	mg/L			01/30/19 04:17	1
Sulfate	<0.38		1.0	0.38	mg/L			01/30/19 04:17	1

**Lab Sample ID: LCS 180-269047/5**  
**Matrix: Water**  
**Analysis Batch: 269047**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.9		mg/L		100	90 - 110
Fluoride	1.25	1.26		mg/L		101	90 - 110
Sulfate	25.0	24.9		mg/L		100	90 - 110

**Lab Sample ID: 180-85993-2 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 269047**

**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	F1	25.0	34.4	F1	mg/L		124	80 - 120
Fluoride	0.031	J	1.25	1.34		mg/L		104	80 - 120
Sulfate	2.7		25.0	28.9		mg/L		105	80 - 120

**Lab Sample ID: 180-85993-2 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 269047**

**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	F1	25.0	29.1		mg/L		103	80 - 120	17	20
Fluoride	0.031	J	1.25	1.30		mg/L		102	80 - 120	3	20
Sulfate	2.7		25.0	28.5		mg/L		103	80 - 120	1	20

TestAmerica Pittsburgh



# QC Sample Results

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-268880/1-A**  
**Matrix: Water**  
**Analysis Batch: 269063**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268880**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/28/19 09:04	01/29/19 14:57	1
Calcium	<0.12		0.25	0.12	mg/L		01/28/19 09:04	01/29/19 14:57	1

**Lab Sample ID: LCS 180-268880/2-A**  
**Matrix: Water**  
**Analysis Batch: 269063**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268880**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.04		mg/L		104	80 - 120
Calcium	50.0	52.7		mg/L		105	80 - 120

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-268890/2**  
**Matrix: Water**  
**Analysis Batch: 268890**

**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			01/28/19 10:58	1

**Lab Sample ID: LCS 180-268890/1**  
**Matrix: Water**  
**Analysis Batch: 268890**

**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	204	176		mg/L		86	80 - 120

**Lab Sample ID: 180-85993-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 268890**

**Client Sample ID: GWA-28**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	58		54.0		mg/L		7	10

**Lab Sample ID: MB 180-268898/2**  
**Matrix: Water**  
**Analysis Batch: 268898**

**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			01/28/19 11:46	1

**Lab Sample ID: LCS 180-268898/1**  
**Matrix: Water**  
**Analysis Batch: 268898**

**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	204	166		mg/L		81	80 - 120

# QC Sample Results

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

TestAmerica Job ID: 180-85993-1  
 SDG: Appendix III

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 180-85993-8 DU  
 Matrix: Ground Water  
 Analysis Batch: 268898

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	86		82.0		mg/L		5	10

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# QC Association Summary

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

TestAmerica Job ID: 180-85993-1  
SDG: Appendix III

## HPLC/IC

### Analysis Batch: 268940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-4	FB-1-1-22-19	Total/NA	Water	300.0	
180-85993-5	GWC-13	Total/NA	Ground Water	300.0	
180-85993-6	GWC-14	Total/NA	Ground Water	300.0	
180-85993-7	GWC-15	Total/NA	Ground Water	300.0	
180-85993-8	GWC-8	Total/NA	Ground Water	300.0	
180-85993-9	GWC-9	Total/NA	Ground Water	300.0	
180-85993-10	DUP-2	Total/NA	Water	300.0	
MB 180-268940/6	Method Blank	Total/NA	Water	300.0	
LCS 180-268940/5	Lab Control Sample	Total/NA	Water	300.0	

### Analysis Batch: 269047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-1	GWA-28	Total/NA	Ground Water	300.0	
180-85993-2	GWC-35	Total/NA	Ground Water	300.0	
180-85993-3	GWC-7	Total/NA	Ground Water	300.0	
MB 180-269047/6	Method Blank	Total/NA	Water	300.0	
LCS 180-269047/5	Lab Control Sample	Total/NA	Water	300.0	
180-85993-2 MS	GWC-35	Total/NA	Ground Water	300.0	
180-85993-2 MSD	GWC-35	Total/NA	Ground Water	300.0	

## Metals

### Prep Batch: 268880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-1	GWA-28	Total Recoverable	Ground Water	3005A	
180-85993-2	GWC-35	Total Recoverable	Ground Water	3005A	
180-85993-3	GWC-7	Total Recoverable	Ground Water	3005A	
180-85993-4	FB-1-1-22-19	Total Recoverable	Water	3005A	
180-85993-5	GWC-13	Total Recoverable	Ground Water	3005A	
180-85993-6	GWC-14	Total Recoverable	Ground Water	3005A	
180-85993-7	GWC-15	Total Recoverable	Ground Water	3005A	
180-85993-8	GWC-8	Total Recoverable	Ground Water	3005A	
180-85993-9	GWC-9	Total Recoverable	Ground Water	3005A	
180-85993-10	DUP-2	Total Recoverable	Water	3005A	
MB 180-268880/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-268880/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 269063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-1	GWA-28	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-2	GWC-35	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-3	GWC-7	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-4	FB-1-1-22-19	Total Recoverable	Water	EPA 6020	268880
180-85993-5	GWC-13	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-6	GWC-14	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-7	GWC-15	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-8	GWC-8	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-9	GWC-9	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-10	DUP-2	Total Recoverable	Water	EPA 6020	268880
MB 180-268880/1-A	Method Blank	Total Recoverable	Water	EPA 6020	268880

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-85993-1  
 SDG: Appendix III

## Metals (Continued)

### Analysis Batch: 269063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-268880/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	268880

## General Chemistry

### Analysis Batch: 268890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-1	GWA-28	Total/NA	Ground Water	SM 2540C	
180-85993-2	GWC-35	Total/NA	Ground Water	SM 2540C	
180-85993-3	GWC-7	Total/NA	Ground Water	SM 2540C	
180-85993-4	FB-1-1-22-19	Total/NA	Water	SM 2540C	
180-85993-5	GWC-13	Total/NA	Ground Water	SM 2540C	
180-85993-6	GWC-14	Total/NA	Ground Water	SM 2540C	
180-85993-7	GWC-15	Total/NA	Ground Water	SM 2540C	
MB 180-268890/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-268890/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-85993-1 DU	GWA-28	Total/NA	Ground Water	SM 2540C	

### Analysis Batch: 268898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-8	GWC-8	Total/NA	Ground Water	SM 2540C	
180-85993-9	GWC-9	Total/NA	Ground Water	SM 2540C	
180-85993-10	DUP-2	Total/NA	Water	SM 2540C	
MB 180-268898/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-268898/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-85993-8 DU	GWC-8	Total/NA	Ground Water	SM 2540C	

TestAmerica Pittsburgh  
301 Alpha Drive RDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7068 Fax (412) 963-2469

### Chain of Custody Record



**Client Information**  
 Client Contact: Jolii Anstham  
 Company: Southern Company  
 Address: PO BOX 2641 GSC8  
 City: Birmingham  
 State, Zip: AL, 35281  
 Phone:  
 Email: JAbraham@southernco.com  
 Project Name: CCR - Plant Wansley - Landfill  
 Site: Georgia

**Sample Information**  
 Sampler: H. Auld  
 Phone: 770-594-5998  
 Lab Pkt: Bortot, Veronica  
 E-Mail: Veronica.Bortot@testamerica.com

**Analysis Requested**  
 Due Date Requested:  
 TAT Requested (days):  
 FO #: SCS10347686  
 WFO #:  
 Project #: 18019922  
 SSO/WK:

**Sample Identification**

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Effects Sample (Yes or No)	Notes
GWA-20	1-21-19	1600	G	Water	N	✓
GWC-35	1-21-19	1655	G	Water	N	✓
GWC-7	1-21-19	1710	G	Water	N	✓
FB-1-22-19	1-22-19	1110	G	Water	N	✓
GWC-13	1-22-19	1220	G	Water	N	✓
GWC-14	1-22-19	1410	G	Water	N	✓
GWC-15	1-22-19	1515	G	Water	N	✓
GWC-B	1-22-19	1535	G	Water	N	✓
GWC-9	1-22-19	1525	G	Water	N	✓
DUP-2	1-22-19	-	G	Water	N	✓

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:  
 Relinquished by: ACC  
 Relinquished by: ACC  
 Relinquished by: ACC

Date/Time:  
 Date/Time: 1-23-19 / 1225  
 Date/Time: 1-23-19 / 1610  
 Date/Time:

Company: ACC  
 Company: ACC  
 Company: ACC

Custody Seal No.:  
 A. Yes  B. No

**Special Instructions/Note:**  
 APP III  
 180-65983 Chain of Custody

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/OC Requirements:

Relinquished by: [Signature]  
 Date/Time: 1/23/19  
 Company: ACC  
 Relinquished by: [Signature]  
 Date/Time: 1/24/19  
 Company: ACC  
 Relinquished by: [Signature]  
 Date/Time: 1/24/19  
 Company: ACC

Custody Seal No.:  
 A. Yes  B. No



SIGNATURE

# Test America

THE LEADER IN ENVIRONMENTAL

ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE

SHIP DATE: 23 JAN 19  
ACTWGT: 46.45 LB  
CAD: 859116/CAFF

NORCROSS, GA 30093  
UNITED STATES US

BILL RECEIPT

TO **SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE**

**PITTSBURGH PA 15238**

(412) 963-7058  
REF: SOUTHERN CO.



**THU - 24 JAN 3:00P  
STANDARD OVERNIGHT**

TRK# 4651 0080 3470  
0201

## NA AGCA

**15238  
PA-US PIT**

Uncorrected temp  
Thermometer ID  
Initials  
CF  
PT-WI-SR-001 effective 11/8/18

2.8  
10  
ND

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## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-85993-1

SDG Number: Appendix III

**Login Number: 85993**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-85993-2

TestAmerica Sample Delivery Group: State

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/12/2019 4:36:12 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-85993-2  
SDG: State

---

**Job ID: 180-85993-2**

---

**Laboratory: TestAmerica Pittsburgh**

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## Narrative

**Job Narrative**  
**180-85993-2**

## Comments

No additional comments.

## Receipt

The samples were received on 1/24/2019 9:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

## Metals

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

TestAmerica Job ID: 180-85993-2  
SDG: State

## 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)
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

TestAmerica Job ID: 180-85993-2  
SDG: State

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-85993-2  
SDG: State

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-85993-1	GWA-28	Ground Water	01/21/19 16:00	01/24/19 09:12
180-85993-2	GWC-35	Ground Water	01/21/19 16:55	01/24/19 09:12
180-85993-3	GWC-7	Ground Water	01/21/19 17:10	01/24/19 09:12
180-85993-4	FB-1-1-22-19	Water	01/22/19 11:10	01/24/19 09:12
180-85993-5	GWC-13	Ground Water	01/22/19 12:20	01/24/19 09:12
180-85993-6	GWC-14	Ground Water	01/22/19 14:10	01/24/19 09:12
180-85993-7	GWC-15	Ground Water	01/22/19 15:15	01/24/19 09:12
180-85993-8	GWC-8	Ground Water	01/22/19 13:35	01/24/19 09:12
180-85993-9	GWC-9	Ground Water	01/22/19 15:25	01/24/19 09:12
180-85993-10	DUP-2	Water	01/22/19 00:00	01/24/19 09:12



# Method Summary

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

TestAmerica Job ID: 180-85993-2  
SDG: State

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

**Laboratory References:**

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



# Lab Chronicle

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

TestAmerica Job ID: 180-85993-2  
SDG: State

**Client Sample ID: GWA-28**

**Date Collected: 01/21/19 16:00**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-1**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:09	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-35**

**Date Collected: 01/21/19 16:55**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-2**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:10	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-7**

**Date Collected: 01/21/19 17:10**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-3**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:14	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: FB-1-1-22-19**

**Date Collected: 01/22/19 11:10**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-4**

**Matrix: 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	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:16	KA	TAL PIT
Instrument ID: HGY										

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-85993-2  
SDG: State

## Client Sample ID: GWC-13

Date Collected: 01/22/19 12:20

Date Received: 01/24/19 09:12

## Lab Sample ID: 180-85993-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:28	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:17	KA	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-14

Date Collected: 01/22/19 14:10

Date Received: 01/24/19 09:12

## Lab Sample ID: 180-85993-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:39	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:18	KA	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-15

Date Collected: 01/22/19 15:15

Date Received: 01/24/19 09:12

## Lab Sample ID: 180-85993-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:42	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:19	KA	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-8

Date Collected: 01/22/19 13:35

Date Received: 01/24/19 09:12

## Lab Sample ID: 180-85993-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:45	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:20	KA	TAL PIT
Instrument ID: HGY										



# Lab Chronicle

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

TestAmerica Job ID: 180-85993-2  
SDG: State

**Client Sample ID: GWC-9**

**Date Collected: 01/22/19 15:25**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-9**

**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	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:49	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:21	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: DUP-2**

**Date Collected: 01/22/19 00:00**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-10**

**Matrix: 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	268880	01/28/19 09:04	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269063	01/29/19 16:52	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269500	02/04/19 12:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269637	02/05/19 13:22	KA	TAL PIT
Instrument ID: HGY										

**Laboratory References:**

TAL PIT = 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

KA = Kayla Kalamasz

RSK = Robert Kurtz

# Client Sample Results

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

TestAmerica Job ID: 180-85993-2  
SDG: State

**Client Sample ID: GWA-28**  
**Date Collected: 01/21/19 16:00**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-1**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:15	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:15	1
<b>Barium</b>	<b>0.00088</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:15	1
<b>Beryllium</b>	<b>0.00041</b>	<b>J</b>	0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:15	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:15	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:15	1
<b>Chromium</b>	<b>0.0014</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:15	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:15	1
<b>Nickel</b>	<b>0.00040</b>	<b>J</b>	0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:15	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:15	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:15	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:15	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:15	1
<b>Vanadium</b>	<b>0.0012</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:15	1
<b>Zinc</b>	<b>0.0065</b>		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 16:15	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		02/04/19 12:29	02/05/19 13:09	1

**Client Sample ID: GWC-35**  
**Date Collected: 01/21/19 16:55**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-2**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:18	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:18	1
<b>Barium</b>	<b>0.022</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:18	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:18	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:18	1
<b>Cobalt</b>	<b>0.00025</b>	<b>J</b>	0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:18	1
<b>Chromium</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:18	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:18	1
<b>Nickel</b>	<b>0.0011</b>		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:18	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:18	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:18	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:18	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:18	1
<b>Vanadium</b>	<b>0.0011</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:18	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 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		02/04/19 12:29	02/05/19 13:10	1

# Client Sample Results

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

TestAmerica Job ID: 180-85993-2  
SDG: State

**Client Sample ID: GWC-7**  
**Date Collected: 01/21/19 17:10**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-3**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:22	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:22	1
<b>Barium</b>	<b>0.083</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:22	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:22	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:22	1
<b>Cobalt</b>	<b>0.00051</b>	<b>J</b>	0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:22	1
<b>Chromium</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:22	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:22	1
<b>Nickel</b>	<b>0.0077</b>		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:22	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:22	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:22	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:22	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:22	1
<b>Vanadium</b>	<b>0.0030</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:22	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 16:22	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		02/04/19 12:29	02/05/19 13:14	1

**Client Sample ID: FB-1-1-22-19**  
**Date Collected: 01/22/19 11:10**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:25	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:25	1
Barium	<0.00037		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:25	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:25	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:25	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:25	1
<b>Chromium</b>	<b>0.0014</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:25	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:25	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:25	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:25	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:25	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:25	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:25	1
<b>Vanadium</b>	<b>0.0013</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:25	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 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		02/04/19 12:29	02/05/19 13:16	1

# Client Sample Results

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

TestAmerica Job ID: 180-85993-2  
SDG: State

**Client Sample ID: GWC-13**

**Date Collected: 01/22/19 12:20**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-5**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:28	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:28	1
<b>Barium</b>	<b>0.0029</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:28	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:28	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:28	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:28	1
<b>Chromium</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:28	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:28	1
<b>Nickel</b>	<b>0.00033</b>	<b>J</b>	0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:28	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:28	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:28	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:28	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:28	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:28	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 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		02/04/19 12:29	02/05/19 13:17	1

**Client Sample ID: GWC-14**

**Date Collected: 01/22/19 14:10**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-6**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Arsenic</b>	<b>0.00041</b>	<b>J</b>	0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Barium</b>	<b>0.15</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Beryllium</b>	<b>0.00040</b>	<b>J</b>	0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Cadmium</b>	<b>0.00021</b>	<b>J</b>	0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Cobalt</b>	<b>0.22</b>		0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Chromium</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:39	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Nickel</b>	<b>0.014</b>		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:39	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:39	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:39	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Thallium</b>	<b>0.00047</b>	<b>J</b>	0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:39	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:39	1
<b>Zinc</b>	<b>0.0094</b>		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 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		02/04/19 12:29	02/05/19 13:18	1

# Client Sample Results

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

TestAmerica Job ID: 180-85993-2  
SDG: State

**Client Sample ID: GWC-15**

**Date Collected: 01/22/19 15:15**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-7**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:42	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:42	1
<b>Barium</b>	<b>0.012</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:42	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:42	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:42	1
<b>Cobalt</b>	<b>0.00016</b>	<b>J</b>	0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:42	1
<b>Chromium</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:42	1
<b>Copper</b>	<b>0.0030</b>		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:42	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:42	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:42	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:42	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:42	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:42	1
<b>Vanadium</b>	<b>0.0012</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:42	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 16:42	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		02/04/19 12:29	02/05/19 13:19	1

**Client Sample ID: GWC-8**

**Date Collected: 01/22/19 13:35**

**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-8**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:45	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:45	1
<b>Barium</b>	<b>0.040</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:45	1
<b>Beryllium</b>	<b>0.000058</b>	<b>J</b>	0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:45	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:45	1
<b>Cobalt</b>	<b>0.013</b>		0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:45	1
<b>Chromium</b>	<b>0.0014</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:45	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:45	1
<b>Nickel</b>	<b>0.0025</b>		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:45	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:45	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:45	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:45	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:45	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:45	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 16:45	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		02/04/19 12:29	02/05/19 13:20	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-85993-2  
SDG: State

**Client Sample ID: GWC-9**  
**Date Collected: 01/22/19 15:25**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-9**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:49	1
<b>Arsenic</b>	<b>0.00059</b>	<b>J</b>	0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:49	1
<b>Barium</b>	<b>0.11</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:49	1
<b>Beryllium</b>	<b>0.000079</b>	<b>J</b>	0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:49	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:49	1
<b>Cobalt</b>	<b>0.028</b>		0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:49	1
<b>Chromium</b>	<b>0.0027</b>		0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:49	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:49	1
<b>Nickel</b>	<b>0.0080</b>		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:49	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:49	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:49	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:49	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:49	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:49	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 16:49	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		02/04/19 12:29	02/05/19 13:21	1

**Client Sample ID: DUP-2**  
**Date Collected: 01/22/19 00:00**  
**Date Received: 01/24/19 09:12**

**Lab Sample ID: 180-85993-10**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 16:52	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 16:52	1
<b>Barium</b>	<b>0.012</b>		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 16:52	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 16:52	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 16:52	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 16:52	1
<b>Chromium</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 16:52	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 16:52	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 16:52	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 16:52	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 16:52	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 16:52	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 16:52	1
<b>Vanadium</b>	<b>0.0013</b>		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 16:52	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 16:52	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		02/04/19 12:29	02/05/19 13:22	1

# QC Sample Results

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

TestAmerica Job ID: 180-85993-2  
SDG: State

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-268880/1-A**  
**Matrix: Water**  
**Analysis Batch: 269063**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268880**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/28/19 09:04	01/29/19 14:57	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/28/19 09:04	01/29/19 14:57	1
Barium	0.00292		0.0025	0.00037	mg/L		01/28/19 09:04	01/29/19 14:57	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/28/19 09:04	01/29/19 14:57	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/28/19 09:04	01/29/19 14:57	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/28/19 09:04	01/29/19 14:57	1
Chromium	<0.00063		0.0025	0.00063	mg/L		01/28/19 09:04	01/29/19 14:57	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/28/19 09:04	01/29/19 14:57	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/28/19 09:04	01/29/19 14:57	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/28/19 09:04	01/29/19 14:57	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/28/19 09:04	01/29/19 14:57	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/28/19 09:04	01/29/19 14:57	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/28/19 09:04	01/29/19 14:57	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		01/28/19 09:04	01/29/19 14:57	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/28/19 09:04	01/29/19 14:57	1

**Lab Sample ID: LCS 180-268880/2-A**  
**Matrix: Water**  
**Analysis Batch: 269063**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268880**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.0500	0.0530		mg/L		106	80 - 120
Arsenic	0.0400	0.0382		mg/L		96	80 - 120
Barium	2.00	2.13		mg/L		106	80 - 120
Beryllium	0.0500	0.0518		mg/L		104	80 - 120
Cadmium	0.0500	0.0560		mg/L		112	80 - 120
Cobalt	0.500	0.477		mg/L		95	80 - 120
Chromium	0.200	0.188		mg/L		94	80 - 120
Copper	0.250	0.256		mg/L		102	80 - 120
Nickel	0.500	0.483		mg/L		97	80 - 120
Lead	0.0200	0.0214		mg/L		107	80 - 120
Antimony	0.500	0.518		mg/L		104	80 - 120
Selenium	0.0100	0.00891		mg/L		89	80 - 120
Thallium	0.0500	0.0536		mg/L		107	80 - 120
Vanadium	0.500	0.459		mg/L		92	80 - 120
Zinc	0.500	0.481		mg/L		96	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-269500/1-A**  
**Matrix: Water**  
**Analysis Batch: 269637**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 269500**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/04/19 12:29	02/05/19 12:51	1

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-85993-2  
SDG: State

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-269500/2-A  
Matrix: Water  
Analysis Batch: 269637

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 269500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00246		mg/L		99	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# QC Association Summary

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

TestAmerica Job ID: 180-85993-2  
SDG: State

## Metals

### Prep Batch: 268880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-1	GWA-28	Total Recoverable	Ground Water	3005A	
180-85993-2	GWC-35	Total Recoverable	Ground Water	3005A	
180-85993-3	GWC-7	Total Recoverable	Ground Water	3005A	
180-85993-4	FB-1-1-22-19	Total Recoverable	Water	3005A	
180-85993-5	GWC-13	Total Recoverable	Ground Water	3005A	
180-85993-6	GWC-14	Total Recoverable	Ground Water	3005A	
180-85993-7	GWC-15	Total Recoverable	Ground Water	3005A	
180-85993-8	GWC-8	Total Recoverable	Ground Water	3005A	
180-85993-9	GWC-9	Total Recoverable	Ground Water	3005A	
180-85993-10	DUP-2	Total Recoverable	Water	3005A	
MB 180-268880/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-268880/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 269063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-1	GWA-28	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-2	GWC-35	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-3	GWC-7	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-4	FB-1-1-22-19	Total Recoverable	Water	EPA 6020	268880
180-85993-5	GWC-13	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-6	GWC-14	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-7	GWC-15	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-8	GWC-8	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-9	GWC-9	Total Recoverable	Ground Water	EPA 6020	268880
180-85993-10	DUP-2	Total Recoverable	Water	EPA 6020	268880
MB 180-268880/1-A	Method Blank	Total Recoverable	Water	EPA 6020	268880
LCS 180-268880/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	268880

### Prep Batch: 269500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-1	GWA-28	Total/NA	Ground Water	7470A	
180-85993-2	GWC-35	Total/NA	Ground Water	7470A	
180-85993-3	GWC-7	Total/NA	Ground Water	7470A	
180-85993-4	FB-1-1-22-19	Total/NA	Water	7470A	
180-85993-5	GWC-13	Total/NA	Ground Water	7470A	
180-85993-6	GWC-14	Total/NA	Ground Water	7470A	
180-85993-7	GWC-15	Total/NA	Ground Water	7470A	
180-85993-8	GWC-8	Total/NA	Ground Water	7470A	
180-85993-9	GWC-9	Total/NA	Ground Water	7470A	
180-85993-10	DUP-2	Total/NA	Water	7470A	
MB 180-269500/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-269500/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 269637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-1	GWA-28	Total/NA	Ground Water	EPA 7470A	269500
180-85993-2	GWC-35	Total/NA	Ground Water	EPA 7470A	269500
180-85993-3	GWC-7	Total/NA	Ground Water	EPA 7470A	269500
180-85993-4	FB-1-1-22-19	Total/NA	Water	EPA 7470A	269500
180-85993-5	GWC-13	Total/NA	Ground Water	EPA 7470A	269500
180-85993-6	GWC-14	Total/NA	Ground Water	EPA 7470A	269500

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-85993-2  
SDG: State

## Metals (Continued)

### Analysis Batch: 269637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-85993-7	GWC-15	Total/NA	Ground Water	EPA 7470A	269500
180-85993-8	GWC-8	Total/NA	Ground Water	EPA 7470A	269500
180-85993-9	GWC-9	Total/NA	Ground Water	EPA 7470A	269500
180-85993-10	DUP-2	Total/NA	Water	EPA 7470A	269500
MB 180-269500/1-A	Method Blank	Total/NA	Water	EPA 7470A	269500
LCS 180-269500/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	269500

TestAmerica Pittsburgh  
 301 Alpha Drive RIBC Park  
 Pittsburgh, PA 15238  
 Phone (412) 863-7058 Fax (412) 963-2488

Chain of Custody Record

TestAmerica  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information:</b> Client Contact: Joli Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab P#F: B0401, Veronica E-Mail: veronica.boroff@testamericainc.com Lab P#F: B0401, Veronica E-Mail: veronica.boroff@testamericainc.com		Caster Tracking No(s): AIC to TMA (ATL Swr. Center)		COC No: Page: Job #: Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - HNO3 G - Ammonia H - Acetic Acid I - DI Water J - DI Water K - EDTA L - BDA Other: M - Hexane N - None O - AsH3O2 P - Na2SO4 Q - Na2S2O3 R - Na2S2O8 S - H2SO4 T - TBP-Dodecylhydrate U - Acetone V - MCOA W - pH 4.5 X - EDTA Y - BDA Z - other (specify)	
<b>Due Date Requested:</b> TAT Requested (days): PO#: SCS10847656 WQ #: Project #: 18019822 SSOW#:		<b>Analysis Requested</b>		Total Number of Containers:		Special Instructions/Notes: STATE METALS LIST ONLY Bottles skewed with App III Sub Trace = 1515	
<b>Sample Identification</b> Sample ID: GWA-28 GWC-35 GWC-7 FB-1-1-22-19 GWC-13 GWC-14 GWC-15 GWC-8 GWC-9 DUP-2		Sample Date: 1-21-19 1-21-19 1-21-19 1-22-19 1-22-19 1-22-19 1-22-19 1-22-19 1-22-19		Sample Time: 1600 1655 1710 1110 1220 1410 1515 1335 1525 ---		Matrix (None, Original, Composite) Water Water 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)		Date: 1-23-19 1235 1610		Date: 1-23-19 12:25 1-24-19 9:12		Company: TMA Company: TMA Company: TMA	
Requisitioned by: [Signature] Date: 1-23-19 Requisitioned by: [Signature] Date: 1-23-19 Requisitioned by: [Signature] Date: 1-23-19		Date: 1-23-19 1235 1610		Date: 1-23-19 12:25 1-24-19 9:12		Company: TMA Company: TMA Company: TMA	
Custody Seal(s) Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		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:		Ver: 08/04/2016	



SIGNATURE

# Test America

THE LEADER IN ENVIRONMENTAL

ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE

SHIP DATE: 23 JAN 19  
ACTWGT: 46.45 LB  
CAD: 859116/CAFF

NORCROSS, GA 30093  
UNITED STATES US

BILL RECEIPT

TO **SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE**

**PITTSBURGH PA 15238**

(412) 963-7058  
REF: SOUTHERN CO.



**THU - 24 JAN 3:00P  
STANDARD OVERNIGHT**

TRK# **4651 0080 3470**  
0201

## NA AGCA

**15238  
PA-US PIT**

Uncorrected temp  
Thermometer ID  
Initials *CF*  
PT-WI-SR-001 effective 11/8/18

*2.8*  
*10*  
*ND*

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## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-85993-2

SDG Number: State

**Login Number: 85993**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86122-1

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/12/2019 4:55:33 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-86122-1

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**Job ID: 180-86122-1**

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**Laboratory: TestAmerica Pittsburgh**

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## Narrative

**Job Narrative**  
**180-86122-1**

### Comments

No additional comments.

### Receipt

The samples were received on 1/26/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

### Anions

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

TestAmerica Job ID: 180-86122-1

## 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.

### 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)
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

TestAmerica Job ID: 180-86122-1

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-86122-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86122-1	GWC-21	Ground Water	01/24/19 11:35	01/26/19 09:30
180-86122-2	GWC-17	Ground Water	01/24/19 12:58	01/26/19 09:30
180-86122-3	FB-2-1-24-19	Water	01/24/19 13:20	01/26/19 09:30
180-86122-4	GWC-22	Ground Water	01/24/19 15:05	01/26/19 09:30
180-86122-5	EB-2-1-24-19	Water	01/24/19 12:30	01/26/19 09:30
180-86122-6	GWC-25	Ground Water	01/24/19 11:20	01/26/19 09:30
180-86122-7	GWC-26	Ground Water	01/24/19 12:45	01/26/19 09:30
180-86122-8	GWC-27	Ground Water	01/24/19 14:10	01/26/19 09:30
180-86122-9	GWC-11	Ground Water	01/24/19 16:30	01/26/19 09:30
180-86122-10	GWC-12	Ground Water	01/25/19 11:05	01/26/19 09:30
180-86122-11	GWC-23	Ground Water	01/25/19 11:35	01/26/19 09:30
180-86122-12	GWC-16	Ground Water	01/25/19 12:00	01/26/19 09:30



# Method Summary

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

TestAmerica Job ID: 180-86122-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

#### Protocol References:

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

# Lab Chronicle

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

TestAmerica Job ID: 180-86122-1

**Client Sample ID: GWC-21**  
**Date Collected: 01/24/19 11:35**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-1**  
**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			269340	02/01/19 14:52	JBF	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:02	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269169	01/30/19 14:55	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-17**  
**Date Collected: 01/24/19 12:58**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-2**  
**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			269340	02/01/19 15:39	JBF	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:06	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269169	01/30/19 14:55	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-2-1-24-19**  
**Date Collected: 01/24/19 13:20**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-3**  
**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			269340	02/01/19 15:55	JBF	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:09	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269169	01/30/19 14:55	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-22**  
**Date Collected: 01/24/19 15:05**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-4**  
**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			269340	02/01/19 16:11	JBF	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86122-1

## Client Sample ID: GWC-22

Date Collected: 01/24/19 15:05

Date Received: 01/26/19 09:30

## Lab Sample ID: 180-86122-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:12	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269169	01/30/19 14:55	AVS	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: EB-2-1-24-19

Date Collected: 01/24/19 12:30

Date Received: 01/26/19 09:30

## Lab Sample ID: 180-86122-5

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			269340	02/01/19 16:27	JBF	TAL PIT
	Instrument ID: CHIC2100A									
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:16	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269169	01/30/19 14:55	AVS	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: GWC-25

Date Collected: 01/24/19 11:20

Date Received: 01/26/19 09:30

## Lab Sample ID: 180-86122-6

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			269340	02/01/19 17:14	JBF	TAL PIT
	Instrument ID: CHIC2100A									
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:19	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269169	01/30/19 14:55	AVS	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: GWC-26

Date Collected: 01/24/19 12:45

Date Received: 01/26/19 09:30

## Lab Sample ID: 180-86122-7

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			269340	02/01/19 17:30	JBF	TAL PIT
	Instrument ID: CHIC2100A									
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:23	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269169	01/30/19 14:55	AVS	TAL PIT
	Instrument ID: NOEQUIP									

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86122-1

**Client Sample ID: GWC-27**

**Date Collected: 01/24/19 14:10**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-8**

**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			269340	02/01/19 17:46	JBF	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269171	01/30/19 15:35	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-11**

**Date Collected: 01/24/19 16:30**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-9**

**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			269340	02/01/19 18:02	JBF	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:36	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269171	01/30/19 15:35	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-12**

**Date Collected: 01/25/19 11:05**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-10**

**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			269340	02/01/19 18:18	JBF	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:40	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269171	01/30/19 15:35	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-23**

**Date Collected: 01/25/19 11:35**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-11**

**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			269343	02/01/19 16:40	JBF	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86122-1

**Client Sample ID: GWC-23**

**Date Collected: 01/25/19 11:35**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-11**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:43	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269171	01/30/19 15:35	TAM	TAL PIT
	Instrument ID: NOEQUIP									

**Client Sample ID: GWC-16**

**Date Collected: 01/25/19 12:00**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-12**

**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			269343	02/01/19 16:56	JBF	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:46	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269171	01/30/19 15:35	TAM	TAL PIT
	Instrument ID: NOEQUIP									

**Laboratory References:**

TAL PIT = 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

JBF = Joshua Fritsch

RSK = Robert Kurtz

TAM = Tessa Mastalski



# Client Sample Results

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

TestAmerica Job ID: 180-86122-1

**Client Sample ID: GWC-21**  
**Date Collected: 01/24/19 11:35**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-1**  
**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		1.0	0.71	mg/L			02/01/19 14:52	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 14:52	1
Sulfate	<0.38		1.0	0.38	mg/L			02/01/19 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:02	1
Calcium	4.1		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		10	10	mg/L			01/30/19 14:55	1

**Client Sample ID: GWC-17**  
**Date Collected: 01/24/19 12:58**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-2**  
**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			02/01/19 15:39	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 15:39	1
Sulfate	0.88	J	1.0	0.38	mg/L			02/01/19 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:06	1
Calcium	7.7		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			01/30/19 14:55	1

**Client Sample ID: FB-2-1-24-19**  
**Date Collected: 01/24/19 13:20**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-3**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/01/19 15:55	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 15:55	1
Sulfate	<0.38		1.0	0.38	mg/L			02/01/19 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:09	1
Calcium	<0.12		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/30/19 14:55	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86122-1

**Client Sample ID: GWC-22**  
**Date Collected: 01/24/19 15:05**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-4**  
**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			02/01/19 16:11	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 16:11	1
Sulfate	0.81	J	1.0	0.38	mg/L			02/01/19 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:12	1
Calcium	10		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			01/30/19 14:55	1

**Client Sample ID: EB-2-1-24-19**  
**Date Collected: 01/24/19 12:30**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-5**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/01/19 16:27	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 16:27	1
Sulfate	<0.38		1.0	0.38	mg/L			02/01/19 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:16	1
Calcium	<0.12		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/30/19 14:55	1

**Client Sample ID: GWC-25**  
**Date Collected: 01/24/19 11:20**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-6**  
**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7		1.0	0.71	mg/L			02/01/19 17:14	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 17:14	1
Sulfate	1.4		1.0	0.38	mg/L			02/01/19 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:19	1
Calcium	5.4		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	54		10	10	mg/L			01/30/19 14:55	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86122-1

**Client Sample ID: GWC-26**  
**Date Collected: 01/24/19 12:45**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-7**  
**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.71	mg/L			02/01/19 17:30	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 17:30	1
Sulfate	0.57	J	1.0	0.38	mg/L			02/01/19 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:23	1
Calcium	1.9		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		10	10	mg/L			01/30/19 14:55	1

**Client Sample ID: GWC-27**  
**Date Collected: 01/24/19 14:10**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-8**  
**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		1.0	0.71	mg/L			02/01/19 17:46	1
Fluoride	0.039	J	0.20	0.026	mg/L			02/01/19 17:46	1
Sulfate	0.39	J	1.0	0.38	mg/L			02/01/19 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:33	1
Calcium	0.71		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/30/19 15:35	1

**Client Sample ID: GWC-11**  
**Date Collected: 01/24/19 16:30**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-9**  
**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.94	J	1.0	0.71	mg/L			02/01/19 18:02	1
Fluoride	0.076	J	0.20	0.026	mg/L			02/01/19 18:02	1
Sulfate	0.77	J	1.0	0.38	mg/L			02/01/19 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:36	1
Calcium	3.8		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/30/19 15:35	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86122-1

**Client Sample ID: GWC-12**  
Date Collected: 01/25/19 11:05  
Date Received: 01/26/19 09:30

**Lab Sample ID: 180-86122-10**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		1.0	0.71	mg/L			02/01/19 18:18	1
Fluoride	0.21		0.20	0.026	mg/L			02/01/19 18:18	1
Sulfate	25		1.0	0.38	mg/L			02/01/19 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.036	J	0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:40	1
Calcium	46		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			01/30/19 15:35	1

**Client Sample ID: GWC-23**  
Date Collected: 01/25/19 11:35  
Date Received: 01/26/19 09:30

**Lab Sample ID: 180-86122-11**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			02/01/19 16:40	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 16:40	1
Sulfate	0.38	J	1.0	0.38	mg/L			02/01/19 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:43	1
Calcium	3.7		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/30/19 15:35	1

**Client Sample ID: GWC-16**  
Date Collected: 01/25/19 12:00  
Date Received: 01/26/19 09:30

**Lab Sample ID: 180-86122-12**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			02/01/19 16:56	1
Fluoride	0.027	J	0.20	0.026	mg/L			02/01/19 16:56	1
Sulfate	0.66	J	1.0	0.38	mg/L			02/01/19 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 14:46	1
Calcium	7.0		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 14:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	51		10	10	mg/L			01/30/19 15:35	1

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86122-1

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-269340/6**  
**Matrix: Water**  
**Analysis Batch: 269340**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/01/19 11:14	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 11:14	1
Sulfate	<0.38		1.0	0.38	mg/L			02/01/19 11:14	1

**Lab Sample ID: LCS 180-269340/5**  
**Matrix: Water**  
**Analysis Batch: 269340**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.7		mg/L		99	90 - 110
Fluoride	1.25	1.29		mg/L		103	90 - 110
Sulfate	25.0	24.9		mg/L		99	90 - 110

**Lab Sample ID: 180-86122-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 269340**

**Client Sample ID: GWC-21**  
**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	30.8		mg/L		107	80 - 120
Fluoride	<0.026		1.25	1.50		mg/L		120	80 - 120
Sulfate	<0.38		25.0	27.2		mg/L		109	80 - 120

**Lab Sample ID: 180-86122-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 269340**

**Client Sample ID: GWC-21**  
**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	28.9		mg/L		99	80 - 120	6	20
Fluoride	<0.026		1.25	1.36		mg/L		108	80 - 120	10	20
Sulfate	<0.38		25.0	25.2		mg/L		101	80 - 120	8	20

**Lab Sample ID: MB 180-269343/6**  
**Matrix: Water**  
**Analysis Batch: 269343**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/01/19 11:20	1
Fluoride	<0.026		0.20	0.026	mg/L			02/01/19 11:20	1
Sulfate	<0.38		1.0	0.38	mg/L			02/01/19 11:20	1

**Lab Sample ID: LCS 180-269343/5**  
**Matrix: Water**  
**Analysis Batch: 269343**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.4		mg/L		98	90 - 110
Fluoride	1.25	1.24		mg/L		99	90 - 110
Sulfate	25.0	24.2		mg/L		97	90 - 110

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86122-1

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-268975/1-A**  
**Matrix: Water**  
**Analysis Batch: 269787**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268975**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		01/29/19 07:54	02/06/19 12:57	1
Calcium	<0.12		0.25	0.12	mg/L		01/29/19 07:54	02/06/19 12:57	1

**Lab Sample ID: LCS 180-268975/2-A**  
**Matrix: Water**  
**Analysis Batch: 269787**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268975**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.945		mg/L		94	80 - 120
Calcium	50.0	51.1		mg/L		102	80 - 120

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-269169/2**  
**Matrix: Water**  
**Analysis Batch: 269169**

**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			01/30/19 14:55	1

**Lab Sample ID: LCS 180-269169/1**  
**Matrix: Water**  
**Analysis Batch: 269169**

**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	204	186		mg/L		91	80 - 120

**Lab Sample ID: MB 180-269171/2**  
**Matrix: Water**  
**Analysis Batch: 269171**

**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			01/30/19 15:35	1

**Lab Sample ID: LCS 180-269171/1**  
**Matrix: Water**  
**Analysis Batch: 269171**

**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	204	180		mg/L		88	80 - 120

**Lab Sample ID: 180-86122-10 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 269171**

**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	170		170		mg/L		2	10

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-86122-1

## HPLC/IC

### Analysis Batch: 269340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-1	GWC-21	Total/NA	Ground Water	300.0	
180-86122-2	GWC-17	Total/NA	Ground Water	300.0	
180-86122-3	FB-2-1-24-19	Total/NA	Water	300.0	
180-86122-4	GWC-22	Total/NA	Ground Water	300.0	
180-86122-5	EB-2-1-24-19	Total/NA	Water	300.0	
180-86122-6	GWC-25	Total/NA	Ground Water	300.0	
180-86122-7	GWC-26	Total/NA	Ground Water	300.0	
180-86122-8	GWC-27	Total/NA	Ground Water	300.0	
180-86122-9	GWC-11	Total/NA	Ground Water	300.0	
180-86122-10	GWC-12	Total/NA	Ground Water	300.0	
MB 180-269340/6	Method Blank	Total/NA	Water	300.0	
LCS 180-269340/5	Lab Control Sample	Total/NA	Water	300.0	
180-86122-1 MS	GWC-21	Total/NA	Ground Water	300.0	
180-86122-1 MSD	GWC-21	Total/NA	Ground Water	300.0	

### Analysis Batch: 269343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-11	GWC-23	Total/NA	Ground Water	300.0	
180-86122-12	GWC-16	Total/NA	Ground Water	300.0	
MB 180-269343/6	Method Blank	Total/NA	Water	300.0	
LCS 180-269343/5	Lab Control Sample	Total/NA	Water	300.0	

## Metals

### Prep Batch: 268975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-1	GWC-21	Total Recoverable	Ground Water	3005A	
180-86122-2	GWC-17	Total Recoverable	Ground Water	3005A	
180-86122-3	FB-2-1-24-19	Total Recoverable	Water	3005A	
180-86122-4	GWC-22	Total Recoverable	Ground Water	3005A	
180-86122-5	EB-2-1-24-19	Total Recoverable	Water	3005A	
180-86122-6	GWC-25	Total Recoverable	Ground Water	3005A	
180-86122-7	GWC-26	Total Recoverable	Ground Water	3005A	
180-86122-8	GWC-27	Total Recoverable	Ground Water	3005A	
180-86122-9	GWC-11	Total Recoverable	Ground Water	3005A	
180-86122-10	GWC-12	Total Recoverable	Ground Water	3005A	
180-86122-11	GWC-23	Total Recoverable	Ground Water	3005A	
180-86122-12	GWC-16	Total Recoverable	Ground Water	3005A	
MB 180-268975/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-268975/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 269787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-1	GWC-21	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-2	GWC-17	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-3	FB-2-1-24-19	Total Recoverable	Water	EPA 6020	268975
180-86122-4	GWC-22	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-5	EB-2-1-24-19	Total Recoverable	Water	EPA 6020	268975
180-86122-6	GWC-25	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-7	GWC-26	Total Recoverable	Ground Water	EPA 6020	268975

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-86122-1

## Metals (Continued)

### Analysis Batch: 269787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-8	GWC-27	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-9	GWC-11	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-10	GWC-12	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-11	GWC-23	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-12	GWC-16	Total Recoverable	Ground Water	EPA 6020	268975
MB 180-268975/1-A	Method Blank	Total Recoverable	Water	EPA 6020	268975
LCS 180-268975/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	268975

## General Chemistry

### Analysis Batch: 269169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-1	GWC-21	Total/NA	Ground Water	SM 2540C	
180-86122-2	GWC-17	Total/NA	Ground Water	SM 2540C	
180-86122-3	FB-2-1-24-19	Total/NA	Water	SM 2540C	
180-86122-4	GWC-22	Total/NA	Ground Water	SM 2540C	
180-86122-5	EB-2-1-24-19	Total/NA	Water	SM 2540C	
180-86122-6	GWC-25	Total/NA	Ground Water	SM 2540C	
180-86122-7	GWC-26	Total/NA	Ground Water	SM 2540C	
MB 180-269169/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-269169/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 269171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-8	GWC-27	Total/NA	Ground Water	SM 2540C	
180-86122-9	GWC-11	Total/NA	Ground Water	SM 2540C	
180-86122-10	GWC-12	Total/NA	Ground Water	SM 2540C	
180-86122-11	GWC-23	Total/NA	Ground Water	SM 2540C	
180-86122-12	GWC-16	Total/NA	Ground Water	SM 2540C	
MB 180-269171/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-269171/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-86122-10 DU	GWC-12	Total/NA	Ground Water	SM 2540C	



### Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: (770) 594-5948 Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): Job #: Analysis Requested:		COC No: Page: 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)			
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SSOV#:		Perform MS/MSD (Yes or No): Metals App III (EPA 6020/7470): OI, T, SO4 & TDS (EPA 300.0 & SM 2540C): Field Filtered Sample (Yes or No): Preservation Code:		Total Number of Containers: Special Instructions/Note: APP III			
<b>Sample Identification</b> GWC-21 GWC-17 FB-2-1-24-19 GWC-22 EB-2-1-24-19 GWC-25 GWC-26 GWC-27 GWC-11 GWC-12 GWC-23	Sample Date: 1-24-19 1-24-19 1-24-19 1-24-19 1-24-19 1-24-19 1-24-19 1-24-19 1-25-19 1-25-19	Sample Time: 1135 1758 1320 1505 1230 1120 1245 1410 1630 1105 1135	Sample Type (C=comp, G=grab): G G G G G G G G G G	Matrix (W=water, S=solid, O=organic, A=air): Water Water Water Water Water Water Water Water Water Water	Field Filtered Sample (Yes or No): N N N N N N N N N N N	Total Number of Containers: 2 2 2 2 2 2 2 2 2 2 2	Special Instructions/Note: APP III
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 long) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:			
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 1/25/19 15:00 1/25/19 16:10 1/25/19 16:10		Method of Shipment: Date/Time: 1/25/19 15:00 1-26-19 9:30 1-26-19 9:30			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



### Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [Redacted] Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Sampler: H. Auld Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Phone: (770) 694-5998 Carrier Tracking No(s): Job #:	
<b>Analysis Requested</b> Due Date Requested: TAT Requested (days): FO #: SCS10347656 WO #: Project #: 18019922 SSOV#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Job J - DI Water K - EDTA L - EDA Other: M - Hexane N - Nore O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
<b>Sample Identification</b> Sample Date: 1-25-19 Sample Time: 1200 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air): Water Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): Metals App III (EPA 6020/470): Cl, F, SO4 & TDS (EPA 300.0 & SM 2540C):		Special Instructions/Note: APP III Total Number of containers: Z	
<b>Possible Hazard Identification</b> <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)			
<b>Sample Disposal</b> (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:			
<b>Chain of Custody</b> Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 1/25/19 Date/Time: 15:00 Date/Time: 16:00 Date/Time: 9:30 Company: ACC Company: JTA Company: JTA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:		Method of Shipment:	



UNIVERSITY  
GEORGE MEXICO  
TEST MCDONN  
6500  
NORCROSS, GA  
UNITED STATE  
TO **SAMPLE**  
**TA PITTSB**  
**301 ALPH**  
**RIDC PAT**  
**PITTSBU**  
(412) 968-7339  
**REF SOURCE**



180-86122 Waybill

CF             
Thermometer ID             
Uncorrected temp             
Initials             
P.T.M.N.-SR-001 effective 1/18/18

- 1
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# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86122-1

**Login Number: 86122**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86122-2

TestAmerica Sample Delivery Group: State

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/28/2019 5:49:56 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-86122-2  
SDG: State

---

**Job ID: 180-86122-2**

---

**Laboratory: TestAmerica Pittsburgh**

---

## Narrative

**Job Narrative**  
**180-86122-2**

## Comments

No additional comments.

## Receipt

The samples were received on 1/26/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

## Metals

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

- 1
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- 13

# Definitions/Glossary

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

TestAmerica Job ID: 180-86122-2  
SDG: State

## 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.
B	Compound was found in the blank and sample.

## 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

TestAmerica Job ID: 180-86122-2  
SDG: State

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-86122-2  
SDG: State

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86122-1	GWC-21	Ground Water	01/24/19 11:35	01/26/19 09:30
180-86122-2	GWC-17	Ground Water	01/24/19 12:58	01/26/19 09:30
180-86122-3	FB-2-1-24-19	Water	01/24/19 13:20	01/26/19 09:30
180-86122-4	GWC-22	Ground Water	01/24/19 15:05	01/26/19 09:30
180-86122-5	EB-2-1-24-19	Water	01/24/19 12:30	01/26/19 09:30
180-86122-6	GWC-25	Ground Water	01/24/19 11:20	01/26/19 09:30
180-86122-7	GWC-26	Ground Water	01/24/19 12:45	01/26/19 09:30
180-86122-8	GWC-27	Ground Water	01/24/19 14:10	01/26/19 09:30
180-86122-9	GWC-11	Ground Water	01/24/19 16:30	01/26/19 09:30
180-86122-10	GWC-12	Ground Water	01/25/19 11:05	01/26/19 09:30
180-86122-11	GWC-23	Ground Water	01/25/19 11:35	01/26/19 09:30
180-86122-12	GWC-16	Ground Water	01/25/19 12:00	01/26/19 09:30

# Method Summary

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

TestAmerica Job ID: 180-86122-2  
SDG: State

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

**Laboratory References:**

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



# Lab Chronicle

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: GWC-21**  
**Date Collected: 01/24/19 11:35**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-1**  
**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			269787	02/06/19 14:02	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			269662	02/05/19 20:21	KA	TAL PIT

**Client Sample ID: GWC-17**  
**Date Collected: 01/24/19 12:58**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-2**  
**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			269787	02/06/19 14:06	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			269662	02/05/19 20:22	KA	TAL PIT

**Client Sample ID: FB-2-1-24-19**  
**Date Collected: 01/24/19 13:20**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-3**  
**Matrix: 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	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			269787	02/06/19 14:09	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			269662	02/05/19 20:23	KA	TAL PIT

**Client Sample ID: GWC-22**  
**Date Collected: 01/24/19 15:05**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-4**  
**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			269787	02/06/19 14:12	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			269662	02/05/19 20:24	KA	TAL PIT

# Lab Chronicle

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: EB-2-1-24-19**

**Lab Sample ID: 180-86122-5**

**Date Collected: 01/24/19 12:30**

**Matrix: Water**

**Date Received: 01/26/19 09:30**

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	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:16	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269662	02/05/19 20:25	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-25**

**Lab Sample ID: 180-86122-6**

**Date Collected: 01/24/19 11:20**

**Matrix: Ground Water**

**Date Received: 01/26/19 09:30**

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	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:19	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269662	02/05/19 20:26	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-26**

**Lab Sample ID: 180-86122-7**

**Date Collected: 01/24/19 12:45**

**Matrix: Ground Water**

**Date Received: 01/26/19 09:30**

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	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:23	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269662	02/05/19 20:27	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-27**

**Lab Sample ID: 180-86122-8**

**Date Collected: 01/24/19 14:10**

**Matrix: Ground Water**

**Date Received: 01/26/19 09:30**

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	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269662	02/05/19 20:28	KA	TAL PIT
Instrument ID: HGY										

# Lab Chronicle

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: GWC-11**

**Date Collected: 01/24/19 16:30**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-9**

**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	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:36	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269662	02/05/19 20:29	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-12**

**Date Collected: 01/25/19 11:05**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-10**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:40	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269662	02/05/19 20:33	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-23**

**Date Collected: 01/25/19 11:35**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-11**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:43	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269662	02/05/19 20:34	KA	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-16**

**Date Collected: 01/25/19 12:00**

**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-12**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	268975	01/29/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269787	02/06/19 14:46	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269580	02/05/19 09:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269662	02/05/19 20:35	KA	TAL PIT
Instrument ID: HGY										

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86122-2  
SDG: State

## Laboratory References:

TAL PIT = 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

KA = Kayla Kalamasz

RSK = Robert Kurtz

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# Client Sample Results

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: GWC-21**  
**Date Collected: 01/24/19 11:35**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-1**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00063</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:02	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:02	1
<b>Barium</b>	<b>0.046</b>		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:02	1
<b>Beryllium</b>	<b>0.000079</b>	<b>J</b>	0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:02	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:02	1
<b>Cobalt</b>	<b>0.0028</b>		0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:02	1
<b>Chromium</b>	<b>0.0012</b>	<b>J B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:02	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:02	1
<b>Nickel</b>	<b>0.00051</b>	<b>J B</b>	0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:02	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:02	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:02	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:02	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:02	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:02	1
<b>Zinc</b>	<b>0.0034</b>	<b>J</b>	0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 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		02/05/19 09:29	02/05/19 20:21	1

**Client Sample ID: GWC-17**  
**Date Collected: 01/24/19 12:58**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-2**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00047</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:06	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:06	1
<b>Barium</b>	<b>0.016</b>		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:06	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:06	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:06	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:06	1
<b>Chromium</b>	<b>0.0014</b>	<b>J B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:06	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:06	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:06	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:06	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:06	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:06	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:06	1
<b>Vanadium</b>	<b>0.0027</b>		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:06	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:06	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		02/05/19 09:29	02/05/19 20:22	1



# Client Sample Results

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: FB-2-1-24-19**

**Lab Sample ID: 180-86122-3**

**Date Collected: 01/24/19 13:20**

**Matrix: Water**

**Date Received: 01/26/19 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00029</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:09	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:09	1
<b>Barium</b>	<b>0.00074</b>	<b>J</b>	0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:09	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:09	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:09	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:09	1
<b>Chromium</b>	<b>0.0012</b>	<b>J B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:09	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:09	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:09	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:09	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:09	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:09	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:09	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:09	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:09	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		02/05/19 09:29	02/05/19 20:23	1

**Client Sample ID: GWC-22**

**Lab Sample ID: 180-86122-4**

**Date Collected: 01/24/19 15:05**

**Matrix: Ground Water**

**Date Received: 01/26/19 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00038</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:12	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:12	1
<b>Barium</b>	<b>0.026</b>		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:12	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:12	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:12	1
<b>Chromium</b>	<b>0.0021</b>	<b>J B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:12	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:12	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:12	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:12	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:12	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:12	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:12	1
<b>Vanadium</b>	<b>0.0065</b>		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:12	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:12	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		02/05/19 09:29	02/05/19 20:24	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: EB-2-1-24-19**

**Lab Sample ID: 180-86122-5**

Date Collected: 01/24/19 12:30

Matrix: Water

Date Received: 01/26/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00028</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:16	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:16	1
<b>Barium</b>	<b>0.00084</b>	<b>J</b>	0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:16	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:16	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:16	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:16	1
<b>Chromium</b>	<b>0.0014</b>	<b>J B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:16	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:16	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:16	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:16	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:16	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:16	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:16	1
<b>Vanadium</b>	<b>0.0010</b>		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:16	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:16	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		02/05/19 09:29	02/05/19 20:25	1

**Client Sample ID: GWC-25**

**Lab Sample ID: 180-86122-6**

Date Collected: 01/24/19 11:20

Matrix: Ground Water

Date Received: 01/26/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00034</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:19	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Barium</b>	<b>0.030</b>		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Beryllium</b>	<b>0.000067</b>	<b>J</b>	0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:19	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Cobalt</b>	<b>0.0014</b>	<b>J</b>	0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Chromium</b>	<b>0.0026</b>	<b>B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Copper</b>	<b>0.0030</b>		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Nickel</b>	<b>0.0027</b>	<b>B</b>	0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Lead</b>	<b>0.00021</b>	<b>J</b>	0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:19	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:19	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:19	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Vanadium</b>	<b>0.0018</b>		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:19	1
<b>Zinc</b>	<b>0.013</b>		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:19	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		02/05/19 09:29	02/05/19 20:26	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: GWC-26**  
**Date Collected: 01/24/19 12:45**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-7**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00019</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:23	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:23	1
<b>Barium</b>	<b>0.036</b>		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:23	1
<b>Beryllium</b>	<b>0.000081</b>	<b>J</b>	0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:23	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:23	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:23	1
<b>Chromium</b>	<b>0.0018</b>	<b>J B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:23	1
<b>Copper</b>	<b>0.0017</b>	<b>J</b>	0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:23	1
<b>Nickel</b>	<b>0.00087</b>	<b>J B</b>	0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:23	1
<b>Lead</b>	<b>0.000098</b>	<b>J</b>	0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:23	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:23	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:23	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:23	1
<b>Vanadium</b>	<b>0.0013</b>		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:23	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:23	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		02/05/19 09:29	02/05/19 20:27	1

**Client Sample ID: GWC-27**  
**Date Collected: 01/24/19 14:10**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-8**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00061</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:33	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:33	1
<b>Barium</b>	<b>0.0090</b>		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:33	1
<b>Beryllium</b>	<b>0.00039</b>	<b>J</b>	0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:33	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:33	1
<b>Cobalt</b>	<b>0.0019</b>	<b>J</b>	0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:33	1
<b>Chromium</b>	<b>0.0015</b>	<b>J B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:33	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:33	1
<b>Nickel</b>	<b>0.00035</b>	<b>J B</b>	0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:33	1
<b>Lead</b>	<b>0.000098</b>	<b>J</b>	0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:33	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:33	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:33	1
<b>Thallium</b>	<b>0.00020</b>	<b>J</b>	0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:33	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:33	1
<b>Zinc</b>	<b>0.0041</b>	<b>J</b>	0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:33	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		02/05/19 09:29	02/05/19 20:28	1

# Client Sample Results

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: GWC-11**  
**Date Collected: 01/24/19 16:30**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-9**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00033	J	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:36	1
Arsenic	0.00065	J	0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:36	1
Barium	0.090		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:36	1
Beryllium	0.00015	J	0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:36	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:36	1
Cobalt	0.0015	J	0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:36	1
Chromium	0.0030	B	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:36	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:36	1
Nickel	0.00035	J B	0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:36	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:36	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:36	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:36	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:36	1
Vanadium	0.0032		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:36	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:36	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		02/05/19 09:29	02/05/19 20:29	1

**Client Sample ID: GWC-12**  
**Date Collected: 01/25/19 11:05**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-10**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00017	J	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:40	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:40	1
Barium	0.024		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:40	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:40	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:40	1
Cobalt	0.00032	J	0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:40	1
Chromium	0.0011	J B	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:40	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:40	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:40	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:40	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:40	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:40	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:40	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:40	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:40	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		02/05/19 09:29	02/05/19 20:33	1

# Client Sample Results

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

TestAmerica Job ID: 180-86122-2  
SDG: State

**Client Sample ID: GWC-23**  
**Date Collected: 01/25/19 11:35**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-11**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00039</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:43	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:43	1
<b>Barium</b>	<b>0.0069</b>		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:43	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:43	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:43	1
<b>Cobalt</b>	<b>0.000084</b>	<b>J</b>	0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:43	1
<b>Chromium</b>	<b>0.0017</b>	<b>J B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:43	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:43	1
<b>Nickel</b>	<b>0.00044</b>	<b>J B</b>	0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:43	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:43	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:43	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:43	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:43	1
<b>Vanadium</b>	<b>0.0012</b>		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:43	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:43	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		02/05/19 09:29	02/05/19 20:34	1

**Client Sample ID: GWC-16**  
**Date Collected: 01/25/19 12:00**  
**Date Received: 01/26/19 09:30**

**Lab Sample ID: 180-86122-12**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00035</b>	<b>J</b>	0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 14:46	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 14:46	1
<b>Barium</b>	<b>0.019</b>		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 14:46	1
<b>Beryllium</b>	<b>0.000072</b>	<b>J</b>	0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 14:46	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 14:46	1
<b>Cobalt</b>	<b>0.00013</b>	<b>J</b>	0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 14:46	1
<b>Chromium</b>	<b>0.0038</b>	<b>B</b>	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 14:46	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 14:46	1
Nickel	<0.00031		0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 14:46	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 14:46	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 14:46	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 14:46	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 14:46	1
<b>Vanadium</b>	<b>0.0052</b>		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 14:46	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 14:46	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		02/05/19 09:29	02/05/19 20:35	1

# QC Sample Results

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

TestAmerica Job ID: 180-86122-2  
SDG: State

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-268975/1-A**  
**Matrix: Water**  
**Analysis Batch: 269787**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268975**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		01/29/19 07:54	02/06/19 12:57	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		01/29/19 07:54	02/06/19 12:57	1
Barium	<0.00037		0.0025	0.00037	mg/L		01/29/19 07:54	02/06/19 12:57	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		01/29/19 07:54	02/06/19 12:57	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		01/29/19 07:54	02/06/19 12:57	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		01/29/19 07:54	02/06/19 12:57	1
Chromium	0.000757	J	0.0025	0.00063	mg/L		01/29/19 07:54	02/06/19 12:57	1
Copper	<0.0013		0.0025	0.0013	mg/L		01/29/19 07:54	02/06/19 12:57	1
Nickel	0.000575	J	0.0010	0.00031	mg/L		01/29/19 07:54	02/06/19 12:57	1
Lead	<0.000094		0.0010	0.000094	mg/L		01/29/19 07:54	02/06/19 12:57	1
Antimony	<0.0011		0.0025	0.0011	mg/L		01/29/19 07:54	02/06/19 12:57	1
Selenium	<0.00081		0.0013	0.00081	mg/L		01/29/19 07:54	02/06/19 12:57	1
Thallium	<0.000063		0.00050	0.000063	mg/L		01/29/19 07:54	02/06/19 12:57	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		01/29/19 07:54	02/06/19 12:57	1
Zinc	<0.0024		0.0050	0.0024	mg/L		01/29/19 07:54	02/06/19 12:57	1

**Lab Sample ID: LCS 180-268975/2-A**  
**Matrix: Water**  
**Analysis Batch: 269787**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 268975**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.0500	0.0512		mg/L		102	80 - 120
Arsenic	0.0400	0.0381		mg/L		95	80 - 120
Barium	2.00	2.03		mg/L		102	80 - 120
Beryllium	0.0500	0.0489		mg/L		98	80 - 120
Cadmium	0.0500	0.0533		mg/L		107	80 - 120
Cobalt	0.500	0.473		mg/L		95	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Nickel	0.500	0.480		mg/L		96	80 - 120
Lead	0.0200	0.0212		mg/L		106	80 - 120
Antimony	0.500	0.524		mg/L		105	80 - 120
Selenium	0.0100	0.00878		mg/L		88	80 - 120
Thallium	0.0500	0.0534		mg/L		107	80 - 120
Vanadium	0.500	0.520		mg/L		104	80 - 120
Zinc	0.500	0.478		mg/L		96	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-269580/1-A**  
**Matrix: Water**  
**Analysis Batch: 269662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 269580**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/05/19 09:29	02/05/19 20:06	1

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86122-2  
SDG: State

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-269580/2-A  
Matrix: Water  
Analysis Batch: 269662

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 269580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00256		mg/L		102	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Association Summary

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

TestAmerica Job ID: 180-86122-2  
SDG: State

## Metals

### Prep Batch: 268975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-1	GWC-21	Total Recoverable	Ground Water	3005A	
180-86122-2	GWC-17	Total Recoverable	Ground Water	3005A	
180-86122-3	FB-2-1-24-19	Total Recoverable	Water	3005A	
180-86122-4	GWC-22	Total Recoverable	Ground Water	3005A	
180-86122-5	EB-2-1-24-19	Total Recoverable	Water	3005A	
180-86122-6	GWC-25	Total Recoverable	Ground Water	3005A	
180-86122-7	GWC-26	Total Recoverable	Ground Water	3005A	
180-86122-8	GWC-27	Total Recoverable	Ground Water	3005A	
180-86122-9	GWC-11	Total Recoverable	Ground Water	3005A	
180-86122-10	GWC-12	Total Recoverable	Ground Water	3005A	
180-86122-11	GWC-23	Total Recoverable	Ground Water	3005A	
180-86122-12	GWC-16	Total Recoverable	Ground Water	3005A	
MB 180-268975/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-268975/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 269580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-1	GWC-21	Total/NA	Ground Water	7470A	
180-86122-2	GWC-17	Total/NA	Ground Water	7470A	
180-86122-3	FB-2-1-24-19	Total/NA	Water	7470A	
180-86122-4	GWC-22	Total/NA	Ground Water	7470A	
180-86122-5	EB-2-1-24-19	Total/NA	Water	7470A	
180-86122-6	GWC-25	Total/NA	Ground Water	7470A	
180-86122-7	GWC-26	Total/NA	Ground Water	7470A	
180-86122-8	GWC-27	Total/NA	Ground Water	7470A	
180-86122-9	GWC-11	Total/NA	Ground Water	7470A	
180-86122-10	GWC-12	Total/NA	Ground Water	7470A	
180-86122-11	GWC-23	Total/NA	Ground Water	7470A	
180-86122-12	GWC-16	Total/NA	Ground Water	7470A	
MB 180-269580/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-269580/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 269662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-1	GWC-21	Total/NA	Ground Water	EPA 7470A	269580
180-86122-2	GWC-17	Total/NA	Ground Water	EPA 7470A	269580
180-86122-3	FB-2-1-24-19	Total/NA	Water	EPA 7470A	269580
180-86122-4	GWC-22	Total/NA	Ground Water	EPA 7470A	269580
180-86122-5	EB-2-1-24-19	Total/NA	Water	EPA 7470A	269580
180-86122-6	GWC-25	Total/NA	Ground Water	EPA 7470A	269580
180-86122-7	GWC-26	Total/NA	Ground Water	EPA 7470A	269580
180-86122-8	GWC-27	Total/NA	Ground Water	EPA 7470A	269580
180-86122-9	GWC-11	Total/NA	Ground Water	EPA 7470A	269580
180-86122-10	GWC-12	Total/NA	Ground Water	EPA 7470A	269580
180-86122-11	GWC-23	Total/NA	Ground Water	EPA 7470A	269580
180-86122-12	GWC-16	Total/NA	Ground Water	EPA 7470A	269580
MB 180-269580/1-A	Method Blank	Total/NA	Water	EPA 7470A	269580
LCS 180-269580/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	269580



# QC Association Summary

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

TestAmerica Job ID: 180-86122-2  
SDG: State

## Metals (Continued)

Analysis Batch: 269787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86122-1	GWC-21	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-2	GWC-17	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-3	FB-2-1-24-19	Total Recoverable	Water	EPA 6020	268975
180-86122-4	GWC-22	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-5	EB-2-1-24-19	Total Recoverable	Water	EPA 6020	268975
180-86122-6	GWC-25	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-7	GWC-26	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-8	GWC-27	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-9	GWC-11	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-10	GWC-12	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-11	GWC-23	Total Recoverable	Ground Water	EPA 6020	268975
180-86122-12	GWC-16	Total Recoverable	Ground Water	EPA 6020	268975
MB 180-268975/1-A	Method Blank	Total Recoverable	Water	EPA 6020	268975
LCS 180-268975/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	268975

### Chain of Custody Record

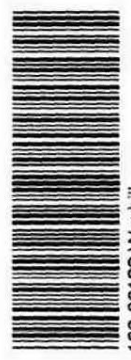
<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: (770) 594-5998 Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): Job #: 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)	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SSOV#:		Analysis Requested Total Number of Containers:	
Sample Identification GWC-21 GWC-17 FB-2-1-24-19 GWC-22 EB-2-1-24-19 GWC-25 GWC-26 GWC-27 GWC-11 GWC-12 GWC-23		Matrix (W=water, S=solid, O=oil, A=air) Sample Type (C=comp, G=grab) Sample Time Sample Date Preservation Code Matrix Sample Type Sample Time Sample Date Preservation Code Matrix	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: APP III 180-86122 Chain of Custody	
Empty Kit Relinquished by: Relinquished by: Relinquished by: Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained long) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Date/Time: 1/25/19 15:00 Date/Time: 1/25/19 16:10 Date/Time:		Date/Time: 1/25/19 15:00 Date/Time: 1-26-19 9:30 Date/Time:	
Company: ARC Company: ZTA Company:		Company: ZTA Company: ZTA Company:	
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	

### Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: (770) 694-5998 Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): Job #:	
Due Date Requested: TAT Requested (days): FO #: SCS10347656 WO #: Project #: 18019922 SSOV#:		Analysis Requested Total Number of Containers: Z Special Instructions/Note: APP III	
<b>Sample Identification</b> Sample ID: GWC-16 Sample Date: 1-25-19 Sample Time: 1200 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air): Water		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 X - EDTA Z - other (specify)	
<b>Possible Hazard Identification</b> <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/OC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: [Signature] Date: 1/25/19 15:00 Company: ACC		Received by: [Signature] Date/Time: 1/25/19 15:00 Company: ACC	
Relinquished by: [Signature] Date: 1/26/19 16:00 Company: JTA		Received by: [Signature] Date/Time: 1-26-19 Company: JTA	
Relinquished by: [Signature] Date: 1/26/19 9:30 Company: JTA		Received by: [Signature] Date/Time: 9:30 Company: JTA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



UNIVERSITY  
GEORGE MEXICO  
TEST MCDONN  
6500  
NORCROSS, GA  
UNITED STATE  
TO **SAMPLE**  
**TA PITTS**  
**301 ALPH**  
**RIDC PAT**  
**PITTSBU**  
(412) 968-7339  
REF SOURCE



180-86122 Waybill

CF             
Thermometer ID             
Uncorrected temp             
Initials             
P.T.M.N.-SR-001 effective 1/18/18

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## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86122-2

SDG Number: State

**Login Number: 86122**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86213-1

Client Project/Site: CCR - Plant Wansley

For:

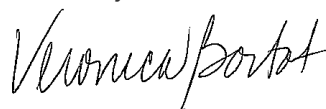
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/13/2019 10:14:29 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-86213-1

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**Job ID: 180-86213-1**

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**Laboratory: TestAmerica Pittsburgh**

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**Narrative**

**Job Narrative  
180-86213-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 1/30/2019 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

**Anions**

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

TestAmerica Job ID: 180-86213-1

## 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.
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

TestAmerica Job ID: 180-86213-1

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# Sample Summary

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

TestAmerica Job ID: 180-86213-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86213-1	GWC-18	Ground Water	01/28/19 11:30	01/30/19 10:20
180-86213-2	GWC-19	Ground Water	01/28/19 12:25	01/30/19 10:20
180-86213-3	GWC-20	Ground Water	01/28/19 13:15	01/30/19 10:20
180-86213-4	GWC-34	Ground Water	01/28/19 14:15	01/30/19 10:20
180-86213-5	DUP-3	Water	01/28/19 00:00	01/30/19 10:20
180-86213-6	EB-3-1-28-19	Water	01/28/19 14:30	01/30/19 10:20
180-86213-7	FB-3-1-28-19	Water	01/28/19 14:50	01/30/19 10:20

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# Method Summary

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

TestAmerica Job ID: 180-86213-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

#### Protocol References:

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



# Lab Chronicle

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

TestAmerica Job ID: 180-86213-1

## Client Sample ID: GWC-18

Date Collected: 01/28/19 11:30

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-1

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			269443	02/04/19 17:28	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:27	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-19

Date Collected: 01/28/19 12:25

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-2

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			269443	02/04/19 17:43	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:37	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269267	01/31/19 13:07	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-20

Date Collected: 01/28/19 13:15

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-3

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			269443	02/04/19 18:31	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:40	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269267	01/31/19 13:07	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-34

Date Collected: 01/28/19 14:15

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-4

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			269443	02/04/19 18:47	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86213-1

**Client Sample ID: GWC-34**

**Date Collected: 01/28/19 14:15**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-4**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:44	WTR	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269267	01/31/19 13:07	TAM	TAL PIT
	Instrument ID: NOEQUIP									

**Client Sample ID: DUP-3**

**Date Collected: 01/28/19 00:00**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-5**

**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			269535	02/05/19 07:53	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:47	WTR	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269267	01/31/19 13:07	TAM	TAL PIT
	Instrument ID: NOEQUIP									

**Client Sample ID: EB-3-1-28-19**

**Date Collected: 01/28/19 14:30**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-6**

**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			269443	02/04/19 15:21	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:50	WTR	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269267	01/31/19 13:07	TAM	TAL PIT
	Instrument ID: NOEQUIP									

**Client Sample ID: FB-3-1-28-19**

**Date Collected: 01/28/19 14:50**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-7**

**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	300.0		1			269443	02/04/19 15:37	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:54	WTR	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269267	01/31/19 13:07	TAM	TAL PIT
	Instrument ID: NOEQUIP									

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86213-1

## Laboratory References:

TAL PIT = 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

Batch Type: Analysis

MJH = Matthew Hartman

TAM = Tessa Mastalski

WTR = Bill Reinheimer

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# Client Sample Results

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

TestAmerica Job ID: 180-86213-1

## Client Sample ID: GWC-18

Date Collected: 01/28/19 11:30

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-1

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			02/04/19 17:28	1
Fluoride	<0.026		0.20	0.026	mg/L			02/04/19 17:28	1
Sulfate	0.69	J	1.0	0.38	mg/L			02/04/19 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:27	1
Calcium	7.0		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:27	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	77		10	10	mg/L			01/31/19 14:50	1

## Client Sample ID: GWC-19

Date Collected: 01/28/19 12:25

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-2

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		1.0	0.71	mg/L			02/04/19 17:43	1
Fluoride	<0.026		0.20	0.026	mg/L			02/04/19 17:43	1
Sulfate	1.2		1.0	0.38	mg/L			02/04/19 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:37	1
Calcium	9.9		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:37	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	69		10	10	mg/L			01/31/19 13:07	1

## Client Sample ID: GWC-20

Date Collected: 01/28/19 13:15

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-3

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			02/04/19 18:31	1
Fluoride	<0.026		0.20	0.026	mg/L			02/04/19 18:31	1
Sulfate	0.90	J	1.0	0.38	mg/L			02/04/19 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:40	1
Calcium	8.6		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:40	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	95		10	10	mg/L			01/31/19 13:07	1

TestAmerica Pittsburgh



# Client Sample Results

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

TestAmerica Job ID: 180-86213-1

## Client Sample ID: GWC-34

Date Collected: 01/28/19 14:15

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-4

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			02/04/19 18:47	1
Fluoride	0.19	J	0.20	0.026	mg/L			02/04/19 18:47	1
Sulfate	1.6		1.0	0.38	mg/L			02/04/19 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:44	1
Calcium	2.9		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:44	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	33		10	10	mg/L			01/31/19 13:07	1

## Client Sample ID: DUP-3

Date Collected: 01/28/19 00:00

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-5

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			02/05/19 07:53	1
Fluoride	<0.026		0.20	0.026	mg/L			02/05/19 07:53	1
Sulfate	0.70	J	1.0	0.38	mg/L			02/05/19 07:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:47	1
Calcium	7.2		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:47	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			01/31/19 13:07	1

## Client Sample ID: EB-3-1-28-19

Date Collected: 01/28/19 14:30

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86213-6

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/04/19 15:21	1
Fluoride	<0.026		0.20	0.026	mg/L			02/04/19 15:21	1
Sulfate	<0.38		1.0	0.38	mg/L			02/04/19 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:50	1
Calcium	<0.12		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:50	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/31/19 13:07	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86213-1

**Client Sample ID: FB-3-1-28-19**

**Lab Sample ID: 180-86213-7**

**Date Collected: 01/28/19 14:50**

**Matrix: Water**

**Date Received: 01/30/19 10:20**

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/04/19 15:37	1
Fluoride	<0.026		0.20	0.026	mg/L			02/04/19 15:37	1
Sulfate	<0.38		1.0	0.38	mg/L			02/04/19 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:54	1
Calcium	<0.12		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:54	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/31/19 13:07	1

# QC Sample Results

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

TestAmerica Job ID: 180-86213-1

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-269443/39**  
**Matrix: Water**  
**Analysis Batch: 269443**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/04/19 14:18	1
Fluoride	<0.026		0.20	0.026	mg/L			02/04/19 14:18	1
Sulfate	<0.38		1.0	0.38	mg/L			02/04/19 14:18	1

**Lab Sample ID: LCS 180-269443/38**  
**Matrix: Water**  
**Analysis Batch: 269443**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.2		mg/L		101	90 - 110
Fluoride	1.25	1.29		mg/L		103	90 - 110
Sulfate	25.0	25.0		mg/L		100	90 - 110

**Lab Sample ID: MB 180-269535/6**  
**Matrix: Water**  
**Analysis Batch: 269535**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/05/19 05:31	1
Fluoride	<0.026		0.20	0.026	mg/L			02/05/19 05:31	1
Sulfate	<0.38		1.0	0.38	mg/L			02/05/19 05:31	1

**Lab Sample ID: LCS 180-269535/5**  
**Matrix: Water**  
**Analysis Batch: 269535**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.5		mg/L		102	90 - 110
Fluoride	1.25	1.29		mg/L		104	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-269503/1-A**  
**Matrix: Water**  
**Analysis Batch: 270091**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269503**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 14:43	1
Calcium	<0.12		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 14:43	1

**Lab Sample ID: LCS 180-269503/2-A**  
**Matrix: Water**  
**Analysis Batch: 270091**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269503**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.01		mg/L		101	80 - 120
Calcium	50.0	53.6		mg/L		107	80 - 120

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86213-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-269267/2  
Matrix: Water  
Analysis Batch: 269267

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			01/31/19 13:07	1

Lab Sample ID: LCS 180-269267/1  
Matrix: Water  
Analysis Batch: 269267

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	204	202		mg/L		99	80 - 120

Lab Sample ID: MB 180-269282/2  
Matrix: Water  
Analysis Batch: 269282

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			01/31/19 14:50	1

Lab Sample ID: LCS 180-269282/1  
Matrix: Water  
Analysis Batch: 269282

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	204	212		mg/L		104	80 - 120

# QC Association Summary

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

TestAmerica Job ID: 180-86213-1

## HPLC/IC

### Analysis Batch: 269443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-1	GWC-18	Total/NA	Ground Water	300.0	
180-86213-2	GWC-19	Total/NA	Ground Water	300.0	
180-86213-3	GWC-20	Total/NA	Ground Water	300.0	
180-86213-4	GWC-34	Total/NA	Ground Water	300.0	
180-86213-6	EB-3-1-28-19	Total/NA	Water	300.0	
180-86213-7	FB-3-1-28-19	Total/NA	Water	300.0	
MB 180-269443/39	Method Blank	Total/NA	Water	300.0	
LCS 180-269443/38	Lab Control Sample	Total/NA	Water	300.0	

### Analysis Batch: 269535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-5	DUP-3	Total/NA	Water	300.0	
MB 180-269535/6	Method Blank	Total/NA	Water	300.0	
LCS 180-269535/5	Lab Control Sample	Total/NA	Water	300.0	

## Metals

### Prep Batch: 269503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-1	GWC-18	Total Recoverable	Ground Water	3005A	
180-86213-2	GWC-19	Total Recoverable	Ground Water	3005A	
180-86213-3	GWC-20	Total Recoverable	Ground Water	3005A	
180-86213-4	GWC-34	Total Recoverable	Ground Water	3005A	
180-86213-5	DUP-3	Total Recoverable	Water	3005A	
180-86213-6	EB-3-1-28-19	Total Recoverable	Water	3005A	
180-86213-7	FB-3-1-28-19	Total Recoverable	Water	3005A	
MB 180-269503/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-269503/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 270091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-1	GWC-18	Total Recoverable	Ground Water	EPA 6020	269503
180-86213-2	GWC-19	Total Recoverable	Ground Water	EPA 6020	269503
180-86213-3	GWC-20	Total Recoverable	Ground Water	EPA 6020	269503
180-86213-4	GWC-34	Total Recoverable	Ground Water	EPA 6020	269503
180-86213-5	DUP-3	Total Recoverable	Water	EPA 6020	269503
180-86213-6	EB-3-1-28-19	Total Recoverable	Water	EPA 6020	269503
180-86213-7	FB-3-1-28-19	Total Recoverable	Water	EPA 6020	269503
MB 180-269503/1-A	Method Blank	Total Recoverable	Water	EPA 6020	269503
LCS 180-269503/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	269503

## General Chemistry

### Analysis Batch: 269267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-2	GWC-19	Total/NA	Ground Water	SM 2540C	
180-86213-3	GWC-20	Total/NA	Ground Water	SM 2540C	
180-86213-4	GWC-34	Total/NA	Ground Water	SM 2540C	
180-86213-5	DUP-3	Total/NA	Water	SM 2540C	
180-86213-6	EB-3-1-28-19	Total/NA	Water	SM 2540C	

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-86213-1

## General Chemistry (Continued)

### Analysis Batch: 269267 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-7	FB-3-1-28-19	Total/NA	Water	SM 2540C	
MB 180-269267/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-269267/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 269282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-1	GWC-18	Total/NA	Ground Water	SM 2540C	
MB 180-269282/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-269282/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Chain of Custody Record

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

<b>Client Information</b> Client Contact: Joji Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: _____ Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Sampler: <i>J. Forder</i> Lab PM: Bortot, Veronica E-Mail: veronica_bortot@testamericainc.com Phone: (770) 294-5998		Carrier Tracking No(s): _____ COC No: _____ Page: _____ Job #: _____							
<b>Analysis Requested</b> Due Date Requested: _____ TAT Requested (days): _____ PO #: SCS10347656 WO #: _____ Project #: 18019922 SSOW#: _____			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 X - EDTA Z - other (specify)								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, AIR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 6020/4/0)	Cl, F, SO <sub>4</sub> & TDS (EPA 300 D & SM 2540C)	Total Number of Containers	Special Instructions/Note:	
GWC-18	1-28-19	1130	G	Water	✓	✓	✓	2	APP III		
GWC-19	1-28-19	1225	G	Water	✓	✓	✓	2			
GWC-20	1-28-19	1315	G	Water	✓	✓	✓	2			
GWC-34	1-28-19	1415	G	Water	✓	✓	✓	2			
DUP-B	1-28-19	-	G	Water	✓	✓	✓	2			
EB-3-1-28-19	1-28-19	1430	G	Water	✓	✓	✓	2			
FB-3-1-28-19	1-28-19	1450	G	Water	✓	✓	✓	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 Deliverable Requested: I, II, III, IV, Other (specify) _____											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo.) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Mc Special Instructions/QC Requirements: _____											
Empty Kit Relinquished by: _____ Relinquished by: _____ Relinquished by: _____			Date: 1-24-19 0900 Date/Time: 1-29-18 0901 Date/Time: _____			Company: ACC Company: _____ Company: _____			Method of Shipment: _____ Date/Time: 1-29-18 Date/Time: 1-30-19 Date/Time: 1000		Company: e990 Company: TPAH 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

<b>Client Information</b> Client Contact: Jolij Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Camer Tracking Net(s): COG No: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WC #: Project #: 18019922 SSOW#:		<b>Analysis Requested</b> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Metals App. III (EPA 6020/7470) Cl, F, SO <sub>4</sub> & TDS (EPA 300.0 & SM 2540C) Pb, Cu, Zn, Ni, Cr, Cd, Hg, Mn, Fe, Al, Si, Se, Ag, Ti, V, Zn, Hg Total Number of Containers:	
<b>Sample Identification</b> Sample Date: 1-28-19 Sample Time: 1130 Sample Type: G (grab) Matrix: Water Preservation Code: G Sample Date: 1-28-19 Sample Time: 1225 Sample Type: G (grab) Matrix: Water Preservation Code: G Sample Date: 1-28-19 Sample Time: 1315 Sample Type: G (grab) Matrix: Water Preservation Code: G Sample Date: 1-28-19 Sample Time: 1415 Sample Type: G (grab) Matrix: Water Preservation Code: G Sample Date: 1-28-19 Sample Time: 1430 Sample Type: G (grab) Matrix: Water Preservation Code: G Sample Date: 1-28-19 Sample Time: 1450 Sample Type: G (grab) Matrix: Water Preservation Code: G		Special Instructions/Note: APP III Special Instructions/Note: APP III	
<b>Possible Hazard Identification</b> <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: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 1-24-19 0900 Date/Time: 1-29-18 0900 Date/Time: 1-30-19 1030 Date/Time: 1030	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	





# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86213-1

**Login Number: 86213**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86213-2

TestAmerica Sample Delivery Group: State

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/26/2019 11:08:02 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-86213-2  
SDG: State

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**Job ID: 180-86213-2**

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**Laboratory: TestAmerica Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-86213-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 1/30/2019 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

**Metals**

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

TestAmerica Job ID: 180-86213-2  
SDG: State

## 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.
B	Compound was found in the blank and sample.

## 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

TestAmerica Job ID: 180-86213-2  
SDG: State

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-86213-2  
SDG: State

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86213-1	GWC-18	Ground Water	01/28/19 11:30	01/30/19 10:20
180-86213-2	GWC-19	Ground Water	01/28/19 12:25	01/30/19 10:20
180-86213-3	GWC-20	Ground Water	01/28/19 13:15	01/30/19 10:20
180-86213-4	GWC-34	Ground Water	01/28/19 14:15	01/30/19 10:20
180-86213-5	DUP-3	Water	01/28/19 00:00	01/30/19 10:20
180-86213-6	EB-3-1-28-19	Water	01/28/19 14:30	01/30/19 10:20
180-86213-7	FB-3-1-28-19	Water	01/28/19 14:50	01/30/19 10:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Method Summary

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

TestAmerica Job ID: 180-86213-2  
SDG: State

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

**Laboratory References:**

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





# Lab Chronicle

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

TestAmerica Job ID: 180-86213-2  
SDG: State

**Client Sample ID: GWC-18**

**Date Collected: 01/28/19 11:30**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-1**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:27	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	271226	02/25/19 07:41	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			271276	02/25/19 14:08	KA	TAL PIT
		Instrument ID: HGZ								

**Client Sample ID: GWC-19**

**Date Collected: 01/28/19 12:25**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-2**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:37	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	271226	02/25/19 07:41	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			271276	02/25/19 14:09	KA	TAL PIT
		Instrument ID: HGZ								

**Client Sample ID: GWC-20**

**Date Collected: 01/28/19 13:15**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-3**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:40	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	271226	02/25/19 07:41	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			271276	02/25/19 14:10	KA	TAL PIT
		Instrument ID: HGZ								

**Client Sample ID: GWC-34**

**Date Collected: 01/28/19 14:15**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-4**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:44	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	271226	02/25/19 07:41	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			271276	02/25/19 14:13	KA	TAL PIT
		Instrument ID: HGZ								

# Lab Chronicle

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

TestAmerica Job ID: 180-86213-2  
SDG: State

**Client Sample ID: DUP-3**

**Date Collected: 01/28/19 00:00**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-5**

**Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:47	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271226	02/25/19 07:41	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			271276	02/25/19 14:14	KA	TAL PIT
Instrument ID: HGZ										

**Client Sample ID: EB-3-1-28-19**

**Date Collected: 01/28/19 14:30**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-6**

**Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:50	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271226	02/25/19 07:41	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			271276	02/25/19 14:15	KA	TAL PIT
Instrument ID: HGZ										

**Client Sample ID: FB-3-1-28-19**

**Date Collected: 01/28/19 14:50**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-7**

**Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:54	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271226	02/25/19 07:41	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			271276	02/25/19 14:16	KA	TAL PIT
Instrument ID: HGZ										

**Laboratory References:**

TAL PIT = 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

KA = Kayla Kalamasz

WTR = Bill Reinheimer

# Client Sample Results

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

TestAmerica Job ID: 180-86213-2  
SDG: State

**Client Sample ID: GWC-18**  
**Date Collected: 01/28/19 11:30**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-1**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:27	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:27	1
<b>Barium</b>	<b>0.037</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:27	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:27	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:27	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:27	1
<b>Chromium</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:27	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:27	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:27	1
<b>Lead</b>	<b>0.00016</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:27	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:27	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:27	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:27	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:27	1
<b>Zinc</b>	<b>0.0033</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:27	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		02/25/19 07:41	02/25/19 14:08	1

**Client Sample ID: GWC-19**  
**Date Collected: 01/28/19 12:25**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-2**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:37	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:37	1
<b>Barium</b>	<b>0.12</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:37	1
<b>Beryllium</b>	<b>0.00011</b>	<b>J</b>	0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:37	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:37	1
<b>Cobalt</b>	<b>0.00043</b>	<b>J</b>	0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:37	1
Chromium	<0.00063		0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:37	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:37	1
<b>Nickel</b>	<b>0.00090</b>	<b>J</b>	0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:37	1
<b>Lead</b>	<b>0.00011</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:37	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:37	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:37	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:37	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:37	1
<b>Zinc</b>	<b>0.0049</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:37	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		02/25/19 07:41	02/25/19 14:09	1

# Client Sample Results

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

TestAmerica Job ID: 180-86213-2  
SDG: State

**Client Sample ID: GWC-20**

**Date Collected: 01/28/19 13:15**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-3**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:40	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:40	1
<b>Barium</b>	<b>0.033</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:40	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:40	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:40	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:40	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:40	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:40	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:40	1
<b>Lead</b>	<b>0.00014</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:40	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:40	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:40	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:40	1
<b>Vanadium</b>	<b>0.0019</b>		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:40	1
<b>Zinc</b>	<b>0.014</b>		0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:40	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		02/25/19 07:41	02/25/19 14:10	1

**Client Sample ID: GWC-34**

**Date Collected: 01/28/19 14:15**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-4**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:44	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:44	1
<b>Barium</b>	<b>0.013</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:44	1
<b>Beryllium</b>	<b>0.000061</b>	<b>J</b>	0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:44	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:44	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:44	1
<b>Chromium</b>	<b>0.00076</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:44	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:44	1
<b>Nickel</b>	<b>0.00047</b>	<b>J</b>	0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:44	1
<b>Lead</b>	<b>0.00022</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:44	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:44	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:44	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:44	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:44	1
<b>Zinc</b>	<b>0.0031</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:44	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		02/25/19 07:41	02/25/19 14:13	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86213-2  
SDG: State

**Client Sample ID: DUP-3**

**Date Collected: 01/28/19 00:00**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-5**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:47	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:47	1
<b>Barium</b>	<b>0.038</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:47	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:47	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:47	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:47	1
<b>Chromium</b>	<b>0.0026</b>		0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:47	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:47	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:47	1
<b>Lead</b>	<b>0.00014</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:47	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:47	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:47	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:47	1
<b>Vanadium</b>	<b>0.0017</b>		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:47	1
Zinc	<0.0024		0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 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		02/25/19 07:41	02/25/19 14:14	1

**Client Sample ID: EB-3-1-28-19**

**Date Collected: 01/28/19 14:30**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86213-6**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:50	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:50	1
Barium	<0.00037		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:50	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:50	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:50	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:50	1
Chromium	<0.00063		0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:50	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:50	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:50	1
Lead	<0.000094		0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:50	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:50	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:50	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:50	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:50	1
Zinc	<0.0024		0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 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		02/25/19 07:41	02/25/19 14:15	1

# Client Sample Results

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

TestAmerica Job ID: 180-86213-2  
 SDG: State

**Client Sample ID: FB-3-1-28-19**

**Lab Sample ID: 180-86213-7**

**Date Collected: 01/28/19 14:50**

**Matrix: Water**

**Date Received: 01/30/19 10:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:54	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:54	1
<b>Barium</b>	<b>0.00044</b>	<b>J</b>	0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:54	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:54	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:54	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:54	1
<b>Chromium</b>	<b>0.0015</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:54	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:54	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:54	1
<b>Lead</b>	<b>0.00012</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:54	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:54	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:54	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:54	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:54	1
<b>Zinc</b>	<b>0.0061</b>		0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 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		02/25/19 07:41	02/25/19 14:16	1

# QC Sample Results

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

TestAmerica Job ID: 180-86213-2  
SDG: State

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-269503/1-A**  
**Matrix: Water**  
**Analysis Batch: 270091**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269503**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 14:43	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 14:43	1
Barium	<0.00037		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 14:43	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 14:43	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 14:43	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 14:43	1
Chromium	<0.00063		0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 14:43	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 14:43	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 14:43	1
Lead	0.000116	J	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 14:43	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 14:43	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 14:43	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 14:43	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 14:43	1
Zinc	<0.0024		0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 14:43	1

**Lab Sample ID: LCS 180-269503/2-A**  
**Matrix: Water**  
**Analysis Batch: 270091**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269503**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.0500	0.0510		mg/L		102	80 - 120
Arsenic	0.0400	0.0397		mg/L		99	80 - 120
Barium	2.00	2.11		mg/L		105	80 - 120
Beryllium	0.0500	0.0516		mg/L		103	80 - 120
Cadmium	0.0500	0.0521		mg/L		104	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Copper	0.250	0.253		mg/L		101	80 - 120
Nickel	0.500	0.492		mg/L		98	80 - 120
Lead	0.0200	0.0208		mg/L		104	80 - 120
Antimony	0.500	0.512		mg/L		102	80 - 120
Selenium	0.0100	0.00983		mg/L		98	80 - 120
Thallium	0.0500	0.0494		mg/L		99	80 - 120
Vanadium	0.500	0.510		mg/L		102	80 - 120
Zinc	0.500	0.497		mg/L		99	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-271226/1-A**  
**Matrix: Water**  
**Analysis Batch: 271276**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 271226**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/25/19 07:41	02/25/19 13:50	1

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86213-2  
SDG: State

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-271226/2-A  
Matrix: Water  
Analysis Batch: 271276

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 271226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

- 1
- 2
- 3
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- 8
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- 10
- 11
- 12
- 13



# QC Association Summary

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

TestAmerica Job ID: 180-86213-2  
SDG: State

## Metals

### Prep Batch: 269503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-1	GWC-18	Total Recoverable	Ground Water	3005A	
180-86213-2	GWC-19	Total Recoverable	Ground Water	3005A	
180-86213-3	GWC-20	Total Recoverable	Ground Water	3005A	
180-86213-4	GWC-34	Total Recoverable	Ground Water	3005A	
180-86213-5	DUP-3	Total Recoverable	Water	3005A	
180-86213-6	EB-3-1-28-19	Total Recoverable	Water	3005A	
180-86213-7	FB-3-1-28-19	Total Recoverable	Water	3005A	
MB 180-269503/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-269503/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 270091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-1	GWC-18	Total Recoverable	Ground Water	EPA 6020	269503
180-86213-2	GWC-19	Total Recoverable	Ground Water	EPA 6020	269503
180-86213-3	GWC-20	Total Recoverable	Ground Water	EPA 6020	269503
180-86213-4	GWC-34	Total Recoverable	Ground Water	EPA 6020	269503
180-86213-5	DUP-3	Total Recoverable	Water	EPA 6020	269503
180-86213-6	EB-3-1-28-19	Total Recoverable	Water	EPA 6020	269503
180-86213-7	FB-3-1-28-19	Total Recoverable	Water	EPA 6020	269503
MB 180-269503/1-A	Method Blank	Total Recoverable	Water	EPA 6020	269503
LCS 180-269503/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	269503

### Prep Batch: 271226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-1	GWC-18	Total/NA	Ground Water	7470A	
180-86213-2	GWC-19	Total/NA	Ground Water	7470A	
180-86213-3	GWC-20	Total/NA	Ground Water	7470A	
180-86213-4	GWC-34	Total/NA	Ground Water	7470A	
180-86213-5	DUP-3	Total/NA	Water	7470A	
180-86213-6	EB-3-1-28-19	Total/NA	Water	7470A	
180-86213-7	FB-3-1-28-19	Total/NA	Water	7470A	
MB 180-271226/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-271226/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 271276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86213-1	GWC-18	Total/NA	Ground Water	EPA 7470A	271226
180-86213-2	GWC-19	Total/NA	Ground Water	EPA 7470A	271226
180-86213-3	GWC-20	Total/NA	Ground Water	EPA 7470A	271226
180-86213-4	GWC-34	Total/NA	Ground Water	EPA 7470A	271226
180-86213-5	DUP-3	Total/NA	Water	EPA 7470A	271226
180-86213-6	EB-3-1-28-19	Total/NA	Water	EPA 7470A	271226
180-86213-7	FB-3-1-28-19	Total/NA	Water	EPA 7470A	271226
MB 180-271226/1-A	Method Blank	Total/NA	Water	EPA 7470A	271226
LCS 180-271226/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	271226

# Chain of Custody Record

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

<b>Client Information</b>		Sampler: <i>J. Forder</i>		Lab P.M.: Bortot, Veronica		Carrier Tracking No(s):		COC No:		
Client Contact: Joju Abraham		Phone: (770) 294-5998		E-Mail: veronica_bortot@testamericainc.com				Page:		
Company: Southern Company								Job #:		
Address: PO BOX 2641 GSC8		Due Date Requested:		Analysis Requested				Preservation Codes:		
City: Birmingham		TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Isp J - DI Water K - EDTA L - EDA 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)		
State, Zip: AL, 35291		PO #: SCS10347656						Other:		
Phone:		WO #:								
Email: JAbraham@southernco.com		Project #:								
Address: CCR - Plant Wansley - Landfill		SSOW#:								
City: Georgia										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 6020/4/0)	Cl, F, SO <sub>4</sub> & TDS (EPA 300 D & SM 2540C)	Total Number of Containers	Special Instructions/Note:
GWC-18	1-28-19	1130	G	Water	✓	✓	✓	✓	2	APP III
GWC-19	1-28-19	1225	G	Water	✓	✓	✓	✓	2	
GWC-20	1-28-19	1315	G	Water	✓	✓	✓	✓	2	
GWC-34	1-28-19	1415	G	Water	✓	✓	✓	✓	2	
DUP-B	1-28-19	-	G	Water	✓	✓	✓	✓	2	
EB-3-1-28-19	1-28-19	1430	G	Water	✓	✓	✓	✓	2	
FB-3-1-28-19	1-28-19	1450	G	Water	✓	✓	✓	✓	2	
				Water						
				Water						
				Water						
				Water						



Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo.)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Mc  
 Special Instructions/QC Requirements:

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: 1-24-19 0900 Company: ACC  
 Relinquished by: \_\_\_\_\_ Date/Time: 1-29-19 0901 Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No  
 Custody Seal No.: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks:

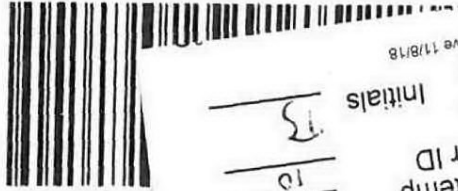
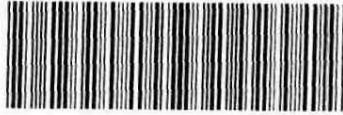


Chain of Custody Record

<b>Client Information</b> Client Contact: Jolij Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Phone: (770) 594-5998 Due Date Requested: TAT Requested (days): PO #: SCS10347656 WC #: Project #: 18019922 SSOW#:		Sampler: O. FUGUETA Carrier Tracking Net(s): COG No: Page: Job #:	
<b>Analysis Requested</b> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Metals App. III (EPA 6020/7470) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CLP (EPA 300.0 & SM 2540C) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Site Point No. As, B, Be, Bi, Bz, C, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Se, Si, Tl, V, Zn, Hg					
<b>Sample Identification</b> Sample ID: GWC-18, GWC-19, GWC-20, GWC-34, DUP-3, FB-3-1-28-19, EB-3-1-28-19 Sample Date: 1-28-19, 1-28-19, 1-28-19, 1-28-19, 1-28-19, 1-28-19, 1-28-19 Sample Time: 1130, 1225, 1315, 1415, 1430, 1450 Sample Type: G (grab) Matrix: Water Preservation Code: G					
<b>Possible Hazard Identification</b> <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: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:					

- 1
- 2
- 3
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- 10
- 11
- 12
- 13

180-86213 Waybill



PT-WI-SR-001 effective 11/8/18

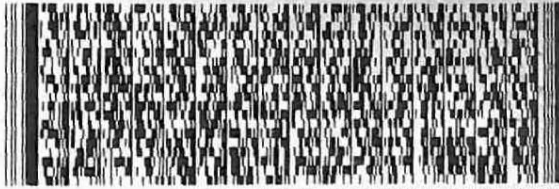
UnCorrected temp  
Thermometer ID  
CF Initials  
0  
3  
10  
21

PA-US P11  
15238

**NA AGCA**

WED - 30 JAN 3:00P  
STANDARD OVERNIGHT

TRK# 4651 0080 3940



DEPT: INV: (412) 963-7068 REF:

**PITTSBURGH PA 15238**

TO  
**SAMPLE RECEIVING**  
TA PITTSBURGH  
301 ALPHA DRIVE

JAN17/13/15/2015

ORIGIN ID: MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCCONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US  
SHP DATE: 29JAN19  
ACTWGT: 55.35 LB  
CAD: 859116/CAFE3211  
BILL RECIPIENT

THE LEADER IN ENVIRONMENTAL TESTING

**merica**

RT 67

1 15:00 A  
3940  
01.30

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86213-2

SDG Number: State

**Login Number: 86213**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86319-1

TestAmerica Sample Delivery Group: APP III

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/20/2019 5:10:28 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

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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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

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**Job ID: 180-86319-1**

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**Laboratory: TestAmerica Pittsburgh**

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**Narrative**

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**Job Narrative**  
**180-86319-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/2/2019 11:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

**Anions**

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 above or 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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

## 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.

### Metals

Qualifier	Qualifier Description
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.

## 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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86319-1	DUP-4	Water	01/30/19 00:00	02/02/19 11:45
180-86319-2	EB-4-1-30-19	Water	01/30/19 14:30	02/02/19 11:45
180-86319-3	FB-4-1-30-19	Water	01/30/19 11:20	02/02/19 11:45
180-86319-4	GWC-33	Ground Water	01/30/19 11:15	02/02/19 11:45
180-86319-5	GWC-32	Ground Water	01/30/19 13:45	02/02/19 11:45
180-86319-6	GWC-30	Ground Water	01/30/19 15:00	02/02/19 11:45
180-86319-7	GWC-5	Ground Water	01/30/19 11:28	02/02/19 11:45
180-86319-8	GWC-6	Ground Water	01/30/19 12:20	02/02/19 11:45
180-86319-9	GWC-10	Ground Water	01/31/19 14:35	02/02/19 11:45
180-86319-10	GWC-24	Ground Water	01/31/19 12:32	02/02/19 11:45
180-86319-11	GWC-31	Ground Water	01/31/19 13:30	02/02/19 11:45



# Method Summary

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

#### Protocol References:

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

# Lab Chronicle

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

**Client Sample ID: DUP-4**  
**Date Collected: 01/30/19 00:00**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-1**  
**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			269666	02/06/19 09:32	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 16:38	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269613	02/05/19 12:04	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: EB-4-1-30-19**  
**Date Collected: 01/30/19 14:30**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-2**  
**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			269666	02/06/19 09:00	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 16:48	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269613	02/05/19 12:04	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-4-1-30-19**  
**Date Collected: 01/30/19 11:20**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-3**  
**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			269666	02/06/19 09:16	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 16:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269613	02/05/19 12:04	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-33**  
**Date Collected: 01/30/19 11:15**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-4**  
**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			269666	02/06/19 09:47	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

**Client Sample ID: GWC-33**

**Date Collected: 01/30/19 11:15**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-4**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 16:55	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269613	02/05/19 12:04	TAM	TAL PIT
	Instrument ID: NOEQUIP									

**Client Sample ID: GWC-32**

**Date Collected: 01/30/19 13:45**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-5**

**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			269666	02/06/19 10:03	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 16:58	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269613	02/05/19 12:04	TAM	TAL PIT
	Instrument ID: NOEQUIP									

**Client Sample ID: GWC-30**

**Date Collected: 01/30/19 15:00**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-6**

**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			269666	02/06/19 10:19	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:02	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269613	02/05/19 12:04	TAM	TAL PIT
	Instrument ID: NOEQUIP									

**Client Sample ID: GWC-5**

**Date Collected: 01/30/19 11:28**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-7**

**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			269666	02/06/19 10:35	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:05	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269613	02/05/19 12:04	TAM	TAL PIT
	Instrument ID: NOEQUIP									

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# Lab Chronicle

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

**Client Sample ID: GWC-6**

**Date Collected: 01/30/19 12:20**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-8**

**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			269666	02/06/19 10:51	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:08	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269613	02/05/19 12:04	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-10**

**Date Collected: 01/31/19 14:35**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-9**

**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			269666	02/06/19 11:06	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:12	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269627	02/05/19 13:33	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-24**

**Date Collected: 01/31/19 12:32**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-10**

**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			269666	02/06/19 11:22	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269627	02/05/19 13:33	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-31**

**Date Collected: 01/31/19 13:30**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-11**

**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			269666	02/06/19 12:10	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

**Client Sample ID: GWC-31**

**Date Collected: 01/31/19 13:30**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-11**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:18	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269627	02/05/19 13:33	TAM	TAL PIT
		Instrument ID: NOEQUIP								

## Laboratory References:

TAL PIT = 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

Batch Type: Analysis

MJH = Matthew Hartman

RSK = Robert Kurtz

TAM = Tessa Mastalski



# Client Sample Results

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

**Client Sample ID: DUP-4**

**Date Collected: 01/30/19 00:00**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-1**

**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.4		1.0	0.71	mg/L			02/06/19 09:32	1
Fluoride	0.083	J	0.20	0.026	mg/L			02/06/19 09:32	1
Sulfate	10		1.0	0.38	mg/L			02/06/19 09:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 16:38	1
Calcium	13	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 16:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			02/05/19 12:04	1

**Client Sample ID: EB-4-1-30-19**

**Date Collected: 01/30/19 14:30**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-2**

**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/06/19 09:00	1
Fluoride	<0.026		0.20	0.026	mg/L			02/06/19 09:00	1
Sulfate	<0.38		1.0	0.38	mg/L			02/06/19 09:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 16:48	1
Calcium	0.12	J B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 16:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/05/19 12:04	1

**Client Sample ID: FB-4-1-30-19**

**Date Collected: 01/30/19 11:20**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-3**

**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/06/19 09:16	1
Fluoride	<0.026		0.20	0.026	mg/L			02/06/19 09:16	1
Sulfate	<0.38		1.0	0.38	mg/L			02/06/19 09:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 16:51	1
Calcium	0.15	J B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 16:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/05/19 12:04	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

## Client Sample ID: GWC-33

Date Collected: 01/30/19 11:15

Date Received: 02/02/19 11:45

## Lab Sample ID: 180-86319-4

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		1.0	0.71	mg/L			02/06/19 09:47	1
Fluoride	2.3		0.20	0.026	mg/L			02/06/19 09:47	1
Sulfate	14		1.0	0.38	mg/L			02/06/19 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 16:55	1
Calcium	17	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 16:55	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			02/05/19 12:04	1

## Client Sample ID: GWC-32

Date Collected: 01/30/19 13:45

Date Received: 02/02/19 11:45

## Lab Sample ID: 180-86319-5

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.98	J	1.0	0.71	mg/L			02/06/19 10:03	1
Fluoride	2.3		0.20	0.026	mg/L			02/06/19 10:03	1
Sulfate	11		1.0	0.38	mg/L			02/06/19 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 16:58	1
Calcium	7.0	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 16:58	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	91		10	10	mg/L			02/05/19 12:04	1

## Client Sample ID: GWC-30

Date Collected: 01/30/19 15:00

Date Received: 02/02/19 11:45

## Lab Sample ID: 180-86319-6

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			02/06/19 10:19	1
Fluoride	0.10	J	0.20	0.026	mg/L			02/06/19 10:19	1
Sulfate	1.2		1.0	0.38	mg/L			02/06/19 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 17:02	1
Calcium	3.4	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 17:02	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	53		10	10	mg/L			02/05/19 12:04	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

**Client Sample ID: GWC-5**  
Date Collected: 01/30/19 11:28  
Date Received: 02/02/19 11:45

**Lab Sample ID: 180-86319-7**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.71	mg/L			02/06/19 10:35	1
Fluoride	0.11	J	0.20	0.026	mg/L			02/06/19 10:35	1
Sulfate	31		1.0	0.38	mg/L			02/06/19 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 17:05	1
Calcium	34	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 17:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			02/05/19 12:04	1

**Client Sample ID: GWC-6**  
Date Collected: 01/30/19 12:20  
Date Received: 02/02/19 11:45

**Lab Sample ID: 180-86319-8**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.3		1.0	0.71	mg/L			02/06/19 10:51	1
Fluoride	0.078	J	0.20	0.026	mg/L			02/06/19 10:51	1
Sulfate	9.7		1.0	0.38	mg/L			02/06/19 10:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 17:08	1
Calcium	12	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 17:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			02/05/19 12:04	1

**Client Sample ID: GWC-10**  
Date Collected: 01/31/19 14:35  
Date Received: 02/02/19 11:45

**Lab Sample ID: 180-86319-9**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		1.0	0.71	mg/L			02/06/19 11:06	1
Fluoride	0.78		0.20	0.026	mg/L			02/06/19 11:06	1
Sulfate	20		1.0	0.38	mg/L			02/06/19 11:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 17:12	1
Calcium	15	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 17:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			02/05/19 13:33	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

**Client Sample ID: GWC-24**

**Date Collected: 01/31/19 12:32**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-10**

**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		1.0	0.71	mg/L			02/06/19 11:22	1
Fluoride	<0.026		0.20	0.026	mg/L			02/06/19 11:22	1
Sulfate	<0.38		1.0	0.38	mg/L			02/06/19 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 17:15	1
Calcium	0.39	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 17:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		10	10	mg/L			02/05/19 13:33	1

**Client Sample ID: GWC-31**

**Date Collected: 01/31/19 13:30**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-11**

**Matrix: Ground Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			02/06/19 12:10	1
Fluoride	1.3		0.20	0.026	mg/L			02/06/19 12:10	1
Sulfate	10		1.0	0.38	mg/L			02/06/19 12:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 17:18	1
Calcium	11	B	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 17:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			02/05/19 13:33	1

# QC Sample Results

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-269666/6**  
**Matrix: Water**  
**Analysis Batch: 269666**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/06/19 05:30	1
Fluoride	<0.026		0.20	0.026	mg/L			02/06/19 05:30	1
Sulfate	<0.38		1.0	0.38	mg/L			02/06/19 05:30	1

**Lab Sample ID: LCS 180-269666/5**  
**Matrix: Water**  
**Analysis Batch: 269666**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.4		mg/L		97	90 - 110
Fluoride	1.25	1.23		mg/L		98	90 - 110
Sulfate	25.0	24.0		mg/L		96	90 - 110

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-269727/1-A**  
**Matrix: Water**  
**Analysis Batch: 269919**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.050	0.030	mg/L		02/06/19 11:15	02/07/19 15:55	1
Calcium	0.120	J	0.25	0.12	mg/L		02/06/19 11:15	02/07/19 15:55	1

**Lab Sample ID: LCS 180-269727/2-A**  
**Matrix: Water**  
**Analysis Batch: 269919**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.07		mg/L		107	80 - 120
Calcium	50.0	52.1		mg/L		104	80 - 120

**Lab Sample ID: 180-86319-11 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 269919**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	<0.030		1.00	1.09		mg/L		109	75 - 125
Calcium	11	B	50.0	63.0		mg/L		105	75 - 125

**Lab Sample ID: 180-86319-11 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 269919**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Boron	<0.030		1.00	1.12		mg/L		112	75 - 125	2	20
Calcium	11	B	50.0	63.4		mg/L		105	75 - 125	1	20

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86319-1  
 SDG: APP III

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-269613/2**  
**Matrix: Water**  
**Analysis Batch: 269613**

**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			02/05/19 12:04	1

**Lab Sample ID: LCS 180-269613/1**  
**Matrix: Water**  
**Analysis Batch: 269613**

**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	204	210		mg/L		103	80 - 120

**Lab Sample ID: MB 180-269627/2**  
**Matrix: Water**  
**Analysis Batch: 269627**

**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			02/05/19 13:33	1

**Lab Sample ID: LCS 180-269627/1**  
**Matrix: Water**  
**Analysis Batch: 269627**

**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	204	192		mg/L		94	80 - 120

# QC Association Summary

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

## HPLC/IC

### Analysis Batch: 269666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-1	DUP-4	Total/NA	Water	300.0	
180-86319-2	EB-4-1-30-19	Total/NA	Water	300.0	
180-86319-3	FB-4-1-30-19	Total/NA	Water	300.0	
180-86319-4	GWC-33	Total/NA	Ground Water	300.0	
180-86319-5	GWC-32	Total/NA	Ground Water	300.0	
180-86319-6	GWC-30	Total/NA	Ground Water	300.0	
180-86319-7	GWC-5	Total/NA	Ground Water	300.0	
180-86319-8	GWC-6	Total/NA	Ground Water	300.0	
180-86319-9	GWC-10	Total/NA	Ground Water	300.0	
180-86319-10	GWC-24	Total/NA	Ground Water	300.0	
180-86319-11	GWC-31	Total/NA	Ground Water	300.0	
MB 180-269666/6	Method Blank	Total/NA	Water	300.0	
LCS 180-269666/5	Lab Control Sample	Total/NA	Water	300.0	

## Metals

### Prep Batch: 269727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-1	DUP-4	Total Recoverable	Water	3005A	
180-86319-2	EB-4-1-30-19	Total Recoverable	Water	3005A	
180-86319-3	FB-4-1-30-19	Total Recoverable	Water	3005A	
180-86319-4	GWC-33	Total Recoverable	Ground Water	3005A	
180-86319-5	GWC-32	Total Recoverable	Ground Water	3005A	
180-86319-6	GWC-30	Total Recoverable	Ground Water	3005A	
180-86319-7	GWC-5	Total Recoverable	Ground Water	3005A	
180-86319-8	GWC-6	Total Recoverable	Ground Water	3005A	
180-86319-9	GWC-10	Total Recoverable	Ground Water	3005A	
180-86319-10	GWC-24	Total Recoverable	Ground Water	3005A	
180-86319-11	GWC-31	Total Recoverable	Ground Water	3005A	
MB 180-269727/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-269727/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-86319-11 MS	GWC-31	Total Recoverable	Ground Water	3005A	
180-86319-11 MSD	GWC-31	Total Recoverable	Ground Water	3005A	

### Analysis Batch: 269919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-1	DUP-4	Total Recoverable	Water	EPA 6020	269727
180-86319-2	EB-4-1-30-19	Total Recoverable	Water	EPA 6020	269727
180-86319-3	FB-4-1-30-19	Total Recoverable	Water	EPA 6020	269727
180-86319-4	GWC-33	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-5	GWC-32	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-6	GWC-30	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-7	GWC-5	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-8	GWC-6	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-9	GWC-10	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-10	GWC-24	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-11	GWC-31	Total Recoverable	Ground Water	EPA 6020	269727
MB 180-269727/1-A	Method Blank	Total Recoverable	Water	EPA 6020	269727
LCS 180-269727/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	269727
180-86319-11 MS	GWC-31	Total Recoverable	Ground Water	EPA 6020	269727

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-86319-1  
SDG: APP III

## Metals (Continued)

### Analysis Batch: 269919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-11 MSD	GWC-31	Total Recoverable	Ground Water	EPA 6020	269727

## General Chemistry

### Analysis Batch: 269613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-1	DUP-4	Total/NA	Water	SM 2540C	
180-86319-2	EB-4-1-30-19	Total/NA	Water	SM 2540C	
180-86319-3	FB-4-1-30-19	Total/NA	Water	SM 2540C	
180-86319-4	GWC-33	Total/NA	Ground Water	SM 2540C	
180-86319-5	GWC-32	Total/NA	Ground Water	SM 2540C	
180-86319-6	GWC-30	Total/NA	Ground Water	SM 2540C	
180-86319-7	GWC-5	Total/NA	Ground Water	SM 2540C	
180-86319-8	GWC-6	Total/NA	Ground Water	SM 2540C	
MB 180-269613/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-269613/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 269627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-9	GWC-10	Total/NA	Ground Water	SM 2540C	
180-86319-10	GWC-24	Total/NA	Ground Water	SM 2540C	
180-86319-11	GWC-31	Total/NA	Ground Water	SM 2540C	
MB 180-269627/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-269627/1	Lab Control Sample	Total/NA	Water	SM 2540C	



Chain of Custody Record



Client Information  
 Client Contact: Jolu Abraham  
 Company: Southern Company  
 Address: PO BOX 2641 GSC8  
 City: Birmingham  
 State, Zip: AL, 35291  
 Phone: (770) 544-5998  
 Email: JAbraham@southernco.com  
 Project Name: CCR - Plant Wansley - Landfill  
 Site: Georgia

Analysis Requested

Due Date Requested:  
 TAT Requested (days):  
 PO #: SCS10347656  
 WO #:  
 Project #: 18019922  
 SSOW#:

Carrier Tracking #: Bortot, Veronica  
 E-Mail: veronica.bortot@testamericainc.com  
 Lab PM: Bortot, Veronica  
 Metals App. III (EPA 6020/470)  
 Perform MS/MSD (Yes or No)  
 Field Filtered Sample (Yes or No)  
 Matrix (W=water, S=solid, O=wastewat, ST=Tissue, A=air)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix	Special Instructions/Note:
DUP-4	1-30-19		G		Water	
EB-4-1-30-19	1-30-19	1430	G		Water	
FB-4-1-30-19	1-30-19	1120	G		Water	
GWC-33	1-30-19	1115	G		Water	
GWC-32	1-30-19	1345	G		Water	Sampled @ 1345
GWC-30	1-30-19	1500	G		Water	
GWC-5	1-30-19	1128	G		Water	
GWC-6	1-30-19	1220	G		Water	
GWC-10	1-31-19	1435	G		Water	
GWC-24	1-31-19	1732	G		Water	
GWC-31	1-31-19	1330	G		Water	

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)  
 Empty Kit Relinquished by: [Signature]  
 Relinquished by: [Signature] Date: 2-1-19/1550 Company: ACC  
 Relinquished by: [Signature] Date: 16:30 Company: TA  
 Relinquished by: [Signature] Date: 11:45 Company: [Signature]  
 Custody Seal Intact:  Yes  No  
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Camer Tracking No(s): OOC No: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SSOW#:		Analysis Requested Total Number of Containers:	
Sample Identification DUP-4 EB-4-1-30-19 FB-4-1-30-19 GWC-33 GWC-32 GWC-30 GWC-5 GWC-6 GWC-10 GWC-24 GWC-31		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 - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Date 1-30-19 1-30-19 1-30-19 1-30-19 1-30-19 1-30-19 1-30-19 1-30-19 1-31-19 1-31-19 1-31-19		Special Instructions/Note: STATE METALS LIST ONLY	
Sample Time / 1430 1120 1115 1345 1500 1128 1220 1435 1232 1330		Field Filtered Sample (Yes or No) MM MM MM MM MM MM MM MM MM MM MM	
Matrix Water Water Water Water Water Water Water Water Water Water		State Permit Metals (EPA 6020 & 7470) As B, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg, Be, Ca, Cd, D	
Sample Type G G G G G G G G G G G		Perform MS/MSD (Yes or No) X X X X X X X X X X X	
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: <i>John Ald</i> Date: 2-1-19/1550 Company: ACC		Relinquished by: <i>John Waters</i> Date: 2-2-19 Company: TAPWA	
Relinquished by: <i>John Ald</i> Date: 2-1-19 Company: TAPWA		Relinquished by: <i>John Waters</i> Date: 2-2-19 Company: TAPWA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TEST

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

ING

Part #: 158469-424 RITZ EXP 10/19

ORIGIN ID: MULA (678) 966-9991  
LEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

SHIP DATE: 01FEB19  
ACTWGT: 53.90 LB  
CAD: 859116/CAFE3  
BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA**

(412) 963-7068  
REF: SOUTHERN



**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

4651 0080 4443

## XO AGCA

15238  
PA-US PIT

Uncorrected temp  
Thermometer ID

23  
10  
Initials JS

CF 0

PT-WI-SR-001 effective 11/8/18



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86319-1

SDG Number: APP III

**Login Number: 86319**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86319-2

TestAmerica Sample Delivery Group: State

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/20/2019 5:25:41 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-86319-2  
SDG: State

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**Job ID: 180-86319-2**

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**Laboratory: TestAmerica Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-86319-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/2/2019 11:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

**Metals**

No 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

TestAmerica Job ID: 180-86319-2  
SDG: State

## 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.
B	Compound was found in the blank and sample.

## 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

TestAmerica Job ID: 180-86319-2  
 SDG: State

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-86319-2  
SDG: State

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86319-1	DUP-4	Water	01/30/19 00:00	02/02/19 11:45
180-86319-2	EB-4-1-30-19	Water	01/30/19 14:30	02/02/19 11:45
180-86319-3	FB-4-1-30-19	Water	01/30/19 11:20	02/02/19 11:45
180-86319-4	GWC-33	Ground Water	01/30/19 11:15	02/02/19 11:45
180-86319-5	GWC-32	Ground Water	01/30/19 13:45	02/02/19 11:45
180-86319-6	GWC-30	Ground Water	01/30/19 15:00	02/02/19 11:45
180-86319-7	GWC-5	Ground Water	01/30/19 11:28	02/02/19 11:45
180-86319-8	GWC-6	Ground Water	01/30/19 12:20	02/02/19 11:45
180-86319-9	GWC-10	Ground Water	01/31/19 14:35	02/02/19 11:45
180-86319-10	GWC-24	Ground Water	01/31/19 12:32	02/02/19 11:45
180-86319-11	GWC-31	Ground Water	01/31/19 13:30	02/02/19 11:45



# Method Summary

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

TestAmerica Job ID: 180-86319-2  
SDG: State

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

**Laboratory References:**

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



# Lab Chronicle

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

TestAmerica Job ID: 180-86319-2  
SDG: State

**Client Sample ID: DUP-4**  
**Date Collected: 01/30/19 00:00**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-1**  
**Matrix: 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	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			269919	02/07/19 16:38	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			270118	02/11/19 18:52	RJR	TAL PIT

**Client Sample ID: EB-4-1-30-19**  
**Date Collected: 01/30/19 14:30**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-2**  
**Matrix: 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	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			269919	02/07/19 16:48	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			270118	02/11/19 18:53	RJR	TAL PIT

**Client Sample ID: FB-4-1-30-19**  
**Date Collected: 01/30/19 11:20**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-3**  
**Matrix: 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	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			269919	02/07/19 16:51	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			270118	02/11/19 18:54	RJR	TAL PIT

**Client Sample ID: GWC-33**  
**Date Collected: 01/30/19 11:15**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-4**  
**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			269919	02/07/19 16:55	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			270118	02/11/19 18:55	RJR	TAL PIT

# Lab Chronicle

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

TestAmerica Job ID: 180-86319-2  
SDG: State

## Client Sample ID: GWC-32

Date Collected: 01/30/19 13:45

Date Received: 02/02/19 11:45

## Lab Sample ID: 180-86319-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 16:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 18:56	RJR	TAL PIT
Instrument ID: HGZ										

## Client Sample ID: GWC-30

Date Collected: 01/30/19 15:00

Date Received: 02/02/19 11:45

## Lab Sample ID: 180-86319-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:02	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 18:57	RJR	TAL PIT
Instrument ID: HGZ										

## Client Sample ID: GWC-5

Date Collected: 01/30/19 11:28

Date Received: 02/02/19 11:45

## Lab Sample ID: 180-86319-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 18:58	RJR	TAL PIT
Instrument ID: HGZ										

## Client Sample ID: GWC-6

Date Collected: 01/30/19 12:20

Date Received: 02/02/19 11:45

## Lab Sample ID: 180-86319-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:08	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 18:59	RJR	TAL PIT
Instrument ID: HGZ										

# Lab Chronicle

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

TestAmerica Job ID: 180-86319-2  
SDG: State

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-86319-9**

**Date Collected: 01/31/19 14:35**

**Matrix: Ground Water**

**Date Received: 02/02/19 11:45**

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	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:12	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 19:02	RJR	TAL PIT
Instrument ID: HGZ										

**Client Sample ID: GWC-24**

**Lab Sample ID: 180-86319-10**

**Date Collected: 01/31/19 12:32**

**Matrix: Ground Water**

**Date Received: 02/02/19 11:45**

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	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 19:03	RJR	TAL PIT
Instrument ID: HGZ										

**Client Sample ID: GWC-31**

**Lab Sample ID: 180-86319-11**

**Date Collected: 01/31/19 13:30**

**Matrix: Ground Water**

**Date Received: 02/02/19 11:45**

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	269727	02/06/19 11:15	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			269919	02/07/19 17:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 19:04	RJR	TAL PIT
Instrument ID: HGZ										

**Laboratory References:**

TAL PIT = 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

RJR = Ron Rosenbaum

RSK = Robert Kurtz

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86319-2  
SDG: State

**Client Sample ID: DUP-4**  
**Date Collected: 01/30/19 00:00**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-1**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.0045</b>	<b>B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 16:38	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 16:38	1
<b>Barium</b>	<b>0.056</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:38	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 16:38	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 16:38	1
<b>Cobalt</b>	<b>0.017</b>		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 16:38	1
<b>Chromium</b>	<b>0.0016</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:38	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 16:38	1
<b>Nickel</b>	<b>0.0058</b>		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 16:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 16:38	1
Antimony	<0.00038		0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 16:38	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 16:38	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 16:38	1
<b>Vanadium</b>	<b>0.0012</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 16:38	1
Zinc	<0.0032		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 16:38	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		02/11/19 10:53	02/11/19 18:52	1

**Client Sample ID: EB-4-1-30-19**  
**Date Collected: 01/30/19 14:30**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00012</b>	<b>J B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 16:48	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 16:48	1
Barium	<0.0015		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:48	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 16:48	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 16:48	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 16:48	1
Chromium	<0.0015		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:48	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 16:48	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 16:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 16:48	1
Antimony	<0.00038		0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 16:48	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 16:48	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 16:48	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 16:48	1
Zinc	<0.0032		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 16:48	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		02/11/19 10:53	02/11/19 18:53	1

# Client Sample Results

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

TestAmerica Job ID: 180-86319-2  
SDG: State

**Client Sample ID: FB-4-1-30-19**

**Lab Sample ID: 180-86319-3**

Date Collected: 01/30/19 11:20

Matrix: Water

Date Received: 02/02/19 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00032</b>	<b>J B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 16:51	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 16:51	1
Barium	<0.0015		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:51	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 16:51	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 16:51	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 16:51	1
<b>Chromium</b>	<b>0.0016</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:51	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 16:51	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 16:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 16:51	1
<b>Antimony</b>	<b>0.00042</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 16:51	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 16:51	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 16:51	1
<b>Vanadium</b>	<b>0.00096</b>	<b>J</b>	0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 16:51	1
Zinc	<0.0032		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 16:51	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		02/11/19 10:53	02/11/19 18:54	1

**Client Sample ID: GWC-33**

**Lab Sample ID: 180-86319-4**

Date Collected: 01/30/19 11:15

Matrix: Ground Water

Date Received: 02/02/19 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00035</b>	<b>J B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 16:55	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 16:55	1
<b>Barium</b>	<b>0.021</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:55	1
<b>Beryllium</b>	<b>0.00036</b>	<b>J</b>	0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 16:55	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 16:55	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 16:55	1
<b>Chromium</b>	<b>0.0026</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:55	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 16:55	1
<b>Nickel</b>	<b>0.00054</b>	<b>J</b>	0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 16:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 16:55	1
<b>Antimony</b>	<b>0.00055</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 16:55	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 16:55	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 16:55	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 16:55	1
<b>Zinc</b>	<b>0.0096</b>		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 16:55	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		02/11/19 10:53	02/11/19 18:55	1



# Client Sample Results

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

TestAmerica Job ID: 180-86319-2  
SDG: State

**Client Sample ID: GWC-32**  
**Date Collected: 01/30/19 13:45**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-5**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00019</b>	<b>J B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 16:58	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 16:58	1
<b>Barium</b>	<b>0.0017</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:58	1
<b>Beryllium</b>	<b>0.0016</b>	<b>J</b>	0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 16:58	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 16:58	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 16:58	1
<b>Chromium</b>	<b>0.0017</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 16:58	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 16:58	1
<b>Nickel</b>	<b>0.00064</b>	<b>J</b>	0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 16:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 16:58	1
<b>Antimony</b>	<b>0.00039</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 16:58	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 16:58	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 16:58	1
<b>Vanadium</b>	<b>0.0012</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 16:58	1
<b>Zinc</b>	<b>0.053</b>		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 16:58	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		02/11/19 10:53	02/11/19 18:56	1

**Client Sample ID: GWC-30**  
**Date Collected: 01/30/19 15:00**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-6**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 17:02	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 17:02	1
<b>Barium</b>	<b>0.013</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:02	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 17:02	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 17:02	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 17:02	1
<b>Chromium</b>	<b>0.0018</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:02	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 17:02	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 17:02	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 17:02	1
<b>Antimony</b>	<b>0.00040</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 17:02	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 17:02	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 17:02	1
<b>Vanadium</b>	<b>0.0021</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 17:02	1
Zinc	<0.0032		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 17:02	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		02/11/19 10:53	02/11/19 18:57	1

# Client Sample Results

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

TestAmerica Job ID: 180-86319-2  
SDG: State

**Client Sample ID: GWC-5**  
**Date Collected: 01/30/19 11:28**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-7**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00016</b>	<b>J B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 17:05	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 17:05	1
<b>Barium</b>	<b>0.016</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:05	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 17:05	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 17:05	1
<b>Cobalt</b>	<b>0.00068</b>	<b>J</b>	0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 17:05	1
<b>Chromium</b>	<b>0.0021</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:05	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 17:05	1
<b>Nickel</b>	<b>0.0032</b>		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 17:05	1
<b>Lead</b>	<b>0.00014</b>	<b>J</b>	0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 17:05	1
<b>Antimony</b>	<b>0.00040</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 17:05	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 17:05	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 17:05	1
<b>Vanadium</b>	<b>0.0031</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 17:05	1
Zinc	<0.0032		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 17:05	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		02/11/19 10:53	02/11/19 18:58	1

**Client Sample ID: GWC-6**  
**Date Collected: 01/30/19 12:20**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-8**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.0032</b>	<b>B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 17:08	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 17:08	1
<b>Barium</b>	<b>0.054</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:08	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 17:08	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 17:08	1
<b>Cobalt</b>	<b>0.017</b>		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 17:08	1
<b>Chromium</b>	<b>0.0020</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:08	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 17:08	1
<b>Nickel</b>	<b>0.0057</b>		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 17:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 17:08	1
<b>Antimony</b>	<b>0.00039</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 17:08	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 17:08	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 17:08	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 17:08	1
Zinc	<0.0032		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 17:08	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		02/11/19 10:53	02/11/19 18:59	1

# Client Sample Results

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

TestAmerica Job ID: 180-86319-2  
SDG: State

**Client Sample ID: GWC-10**

**Date Collected: 01/31/19 14:35**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-9**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.0055</b>	<b>B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 17:12	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 17:12	1
<b>Barium</b>	<b>0.025</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:12	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 17:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 17:12	1
<b>Cobalt</b>	<b>0.0063</b>		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 17:12	1
<b>Chromium</b>	<b>0.0018</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:12	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 17:12	1
<b>Nickel</b>	<b>0.0018</b>		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 17:12	1
<b>Lead</b>	<b>0.00013</b>	<b>J</b>	0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 17:12	1
<b>Antimony</b>	<b>0.00048</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 17:12	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 17:12	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 17:12	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 17:12	1
<b>Zinc</b>	<b>0.0039</b>	<b>J</b>	0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 17:12	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		02/11/19 10:53	02/11/19 19:02	1

**Client Sample ID: GWC-24**

**Date Collected: 01/31/19 12:32**

**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-10**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00069</b>	<b>J B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 17:15	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Barium</b>	<b>0.011</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:15	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 17:15	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Cobalt</b>	<b>0.0029</b>		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Chromium</b>	<b>0.0022</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Copper</b>	<b>0.00063</b>	<b>J</b>	0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Nickel</b>	<b>0.0018</b>		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Lead</b>	<b>0.00013</b>	<b>J</b>	0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Antimony</b>	<b>0.00048</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 17:15	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 17:15	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 17:15	1
<b>Zinc</b>	<b>0.0060</b>		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 17:15	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		02/11/19 10:53	02/11/19 19:03	1

# Client Sample Results

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

TestAmerica Job ID: 180-86319-2  
 SDG: State

**Client Sample ID: GWC-31**  
**Date Collected: 01/31/19 13:30**  
**Date Received: 02/02/19 11:45**

**Lab Sample ID: 180-86319-11**  
**Matrix: Ground Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00036</b>	<b>J B</b>	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 17:18	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Barium</b>	<b>0.0016</b>	<b>J</b>	0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Beryllium</b>	<b>0.00057</b>	<b>J</b>	0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 17:18	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 17:18	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Chromium</b>	<b>0.0031</b>		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Copper</b>	<b>0.00064</b>	<b>J</b>	0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Nickel</b>	<b>0.0011</b>		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Lead</b>	<b>0.00015</b>	<b>J</b>	0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Antimony</b>	<b>0.00042</b>	<b>J</b>	0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 17:18	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 17:18	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 17:18	1
<b>Zinc</b>	<b>0.0080</b>		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 17:18	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		02/11/19 10:53	02/11/19 19:04	1

# QC Sample Results

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

TestAmerica Job ID: 180-86319-2  
SDG: State

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-269727/1-A**  
**Matrix: Water**  
**Analysis Batch: 269919**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.000441	J	0.0010	0.00012	mg/L		02/06/19 11:15	02/07/19 15:55	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/06/19 11:15	02/07/19 15:55	1
Barium	<0.0015		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 15:55	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		02/06/19 11:15	02/07/19 15:55	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/06/19 11:15	02/07/19 15:55	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/06/19 11:15	02/07/19 15:55	1
Chromium	<0.0015		0.0025	0.0015	mg/L		02/06/19 11:15	02/07/19 15:55	1
Copper	<0.00063		0.0025	0.00063	mg/L		02/06/19 11:15	02/07/19 15:55	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/06/19 11:15	02/07/19 15:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/06/19 11:15	02/07/19 15:55	1
Antimony	<0.00038		0.0025	0.00038	mg/L		02/06/19 11:15	02/07/19 15:55	1
Selenium	<0.0026		0.0013	0.0026	mg/L		02/06/19 11:15	02/07/19 15:55	1
Thallium	<0.00013		0.00050	0.00013	mg/L		02/06/19 11:15	02/07/19 15:55	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/06/19 11:15	02/07/19 15:55	1
Zinc	<0.0032		0.0050	0.0032	mg/L		02/06/19 11:15	02/07/19 15:55	1

**Lab Sample ID: LCS 180-269727/2-A**  
**Matrix: Water**  
**Analysis Batch: 269919**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.0500	0.0531		mg/L		106	80 - 120
Arsenic	0.0400	0.0429		mg/L		107	80 - 120
Barium	2.00	2.14		mg/L		107	80 - 120
Beryllium	0.0500	0.0475		mg/L		95	80 - 120
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Copper	0.250	0.287		mg/L		115	80 - 120
Nickel	0.500	0.549		mg/L		110	80 - 120
Lead	0.0200	0.0210		mg/L		105	80 - 120
Antimony	0.500	0.522		mg/L		104	80 - 120
Selenium	0.0100	0.0101		mg/L		101	80 - 120
Thallium	0.0500	0.0530		mg/L		106	80 - 120
Vanadium	0.500	0.520		mg/L		104	80 - 120
Zinc	0.500	0.531		mg/L		106	80 - 120

**Lab Sample ID: 180-86319-11 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 269919**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Silver	0.00036	J B	0.0500	0.0526		mg/L		105	75 - 125
Arsenic	<0.00032		0.0400	0.0432		mg/L		108	75 - 125
Barium	0.0016	J	2.00	2.15		mg/L		107	75 - 125
Beryllium	0.00057	J	0.0500	0.0516		mg/L		102	75 - 125
Cadmium	<0.00013		0.0500	0.0527		mg/L		105	75 - 125
Cobalt	<0.000075		0.500	0.539		mg/L		108	75 - 125

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86319-2  
SDG: State

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

**Lab Sample ID: 180-86319-11 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 269919**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Chromium	0.0031		0.200	0.216		mg/L		106		75 - 125
Copper	0.00064	J	0.250	0.288		mg/L		115		75 - 125
Nickel	0.0011		0.500	0.549		mg/L		110		75 - 125
Lead	0.00015	J	0.0200	0.0212		mg/L		105		75 - 125
Antimony	0.00042	J	0.500	0.523		mg/L		105		75 - 125
Selenium	<0.0026		0.0100	0.0105		mg/L		105		75 - 125
Thallium	<0.00013		0.0500	0.0537		mg/L		107		75 - 125
Vanadium	0.0014		0.500	0.518		mg/L		103		75 - 125
Zinc	0.0080		0.500	0.542		mg/L		107		75 - 125

**Lab Sample ID: 180-86319-11 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 269919**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269727**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Silver	0.00036	J B	0.0500	0.0530		mg/L		105		75 - 125	1	20
Arsenic	<0.00032		0.0400	0.0436		mg/L		109		75 - 125	1	20
Barium	0.0016	J	2.00	2.14		mg/L		107		75 - 125	0	20
Beryllium	0.00057	J	0.0500	0.0526		mg/L		104		75 - 125	2	20
Cadmium	<0.00013		0.0500	0.0520		mg/L		104		75 - 125	1	20
Cobalt	<0.000075		0.500	0.544		mg/L		109		75 - 125	1	20
Chromium	0.0031		0.200	0.214		mg/L		105		75 - 125	1	20
Copper	0.00064	J	0.250	0.288		mg/L		115		75 - 125	0	20
Nickel	0.0011		0.500	0.550		mg/L		110		75 - 125	0	20
Lead	0.00015	J	0.0200	0.0215		mg/L		107		75 - 125	1	20
Antimony	0.00042	J	0.500	0.523		mg/L		104		75 - 125	0	20
Selenium	<0.0026		0.0100	0.0104		mg/L		104		75 - 125	1	20
Thallium	<0.00013		0.0500	0.0549		mg/L		110		75 - 125	2	20
Vanadium	0.0014		0.500	0.516		mg/L		103		75 - 125	0	20
Zinc	0.0080		0.500	0.546		mg/L		107		75 - 125	1	20

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-270061/1-A**  
**Matrix: Water**  
**Analysis Batch: 270118**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 270061**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00010		0.00020	0.00010	mg/L		02/11/19 10:53	02/11/19 18:50	1

**Lab Sample ID: LCS 180-270061/2-A**  
**Matrix: Water**  
**Analysis Batch: 270118**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 270061**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Mercury	0.00250	0.00239		mg/L		96		80 - 120

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-86319-2  
SDG: State

## Metals

### Prep Batch: 269727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-1	DUP-4	Total Recoverable	Water	3005A	
180-86319-2	EB-4-1-30-19	Total Recoverable	Water	3005A	
180-86319-3	FB-4-1-30-19	Total Recoverable	Water	3005A	
180-86319-4	GWC-33	Total Recoverable	Ground Water	3005A	
180-86319-5	GWC-32	Total Recoverable	Ground Water	3005A	
180-86319-6	GWC-30	Total Recoverable	Ground Water	3005A	
180-86319-7	GWC-5	Total Recoverable	Ground Water	3005A	
180-86319-8	GWC-6	Total Recoverable	Ground Water	3005A	
180-86319-9	GWC-10	Total Recoverable	Ground Water	3005A	
180-86319-10	GWC-24	Total Recoverable	Ground Water	3005A	
180-86319-11	GWC-31	Total Recoverable	Ground Water	3005A	
MB 180-269727/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-269727/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-86319-11 MS	GWC-31	Total Recoverable	Ground Water	3005A	
180-86319-11 MSD	GWC-31	Total Recoverable	Ground Water	3005A	

### Analysis Batch: 269919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-1	DUP-4	Total Recoverable	Water	EPA 6020	269727
180-86319-2	EB-4-1-30-19	Total Recoverable	Water	EPA 6020	269727
180-86319-3	FB-4-1-30-19	Total Recoverable	Water	EPA 6020	269727
180-86319-4	GWC-33	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-5	GWC-32	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-6	GWC-30	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-7	GWC-5	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-8	GWC-6	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-9	GWC-10	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-10	GWC-24	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-11	GWC-31	Total Recoverable	Ground Water	EPA 6020	269727
MB 180-269727/1-A	Method Blank	Total Recoverable	Water	EPA 6020	269727
LCS 180-269727/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	269727
180-86319-11 MS	GWC-31	Total Recoverable	Ground Water	EPA 6020	269727
180-86319-11 MSD	GWC-31	Total Recoverable	Ground Water	EPA 6020	269727

### Prep Batch: 270061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-1	DUP-4	Total/NA	Water	7470A	
180-86319-2	EB-4-1-30-19	Total/NA	Water	7470A	
180-86319-3	FB-4-1-30-19	Total/NA	Water	7470A	
180-86319-4	GWC-33	Total/NA	Ground Water	7470A	
180-86319-5	GWC-32	Total/NA	Ground Water	7470A	
180-86319-6	GWC-30	Total/NA	Ground Water	7470A	
180-86319-7	GWC-5	Total/NA	Ground Water	7470A	
180-86319-8	GWC-6	Total/NA	Ground Water	7470A	
180-86319-9	GWC-10	Total/NA	Ground Water	7470A	
180-86319-10	GWC-24	Total/NA	Ground Water	7470A	
180-86319-11	GWC-31	Total/NA	Ground Water	7470A	
MB 180-270061/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-270061/2-A	Lab Control Sample	Total/NA	Water	7470A	

TestAmerica Pittsburgh

# QC Association Summary

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

TestAmerica Job ID: 180-86319-2  
SDG: State

## Metals (Continued)

### Analysis Batch: 270118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86319-1	DUP-4	Total/NA	Water	EPA 7470A	270061
180-86319-2	EB-4-1-30-19	Total/NA	Water	EPA 7470A	270061
180-86319-3	FB-4-1-30-19	Total/NA	Water	EPA 7470A	270061
180-86319-4	GWC-33	Total/NA	Ground Water	EPA 7470A	270061
180-86319-5	GWC-32	Total/NA	Ground Water	EPA 7470A	270061
180-86319-6	GWC-30	Total/NA	Ground Water	EPA 7470A	270061
180-86319-7	GWC-5	Total/NA	Ground Water	EPA 7470A	270061
180-86319-8	GWC-6	Total/NA	Ground Water	EPA 7470A	270061
180-86319-9	GWC-10	Total/NA	Ground Water	EPA 7470A	270061
180-86319-10	GWC-24	Total/NA	Ground Water	EPA 7470A	270061
180-86319-11	GWC-31	Total/NA	Ground Water	EPA 7470A	270061
MB 180-270061/1-A	Method Blank	Total/NA	Water	EPA 7470A	270061
LCS 180-270061/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	270061



Chain of Custody Record



**Client Information**  
 Client Contact: Jolu Abraham  
 Company: Southern Company  
 Address: PO BOX 2641 GSC8  
 City: Birmingham  
 State, Zip: AL, 35291  
 Phone: (770) 544-5998  
 Email: JAbraham@southernco.com  
 Project Name: CCR - Plant Wansley - Landfill  
 Site: Georgia

**Analysis Requested**  
 Due Date Requested:  
 TAT Requested (days):  
 PO #: SCS10347656  
 WO #:  
 Project #: 18019922  
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, ST=Tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 6020/470)	Cl, F, SO <sub>4</sub> & TDS (EPA 300.0 & SM 2540C)	Total Number of Containers	Special Instructions/Note:
DUP-4	1-30-19	—	G	Water	W	W	W	W	2	
EB-4-1-30-19	1-30-19	1430	G	Water	W	W	W	W	2	
FB-4-1-30-19	1-30-19	1120	G	Water	W	W	W	W	2	
GWC-33	1-30-19	1115	G	Water	W	W	W	W	2	
GWC-32	1-30-19	1345	G	Water	W	W	W	W	2	Sampled @ 1345
GWC-30	1-30-19	1500	G	Water	W	W	W	W	2	
GWC-5	1-30-19	1128	G	Water	W	W	W	W	2	
GWC-6	1-30-19	1220	G	Water	W	W	W	W	2	
GWC-10	1-31-19	1435	G	Water	W	W	W	W	2	
GWC-24	1-31-19	1732	G	Water	W	W	W	W	2	
GWC-31	1-31-19	1330	G	Water	W	W	W	W	2	

**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:** [Signature] Date: 2-1-19/1550  
 Relinquished by: [Signature] Date/Time: 2-1-19/16:30  
 Relinquished by: [Signature] Date/Time: 2-1-19/11:45  
 Company: TIA  
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Camer Tracking No(s): OOC No: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SSOW#		Analysis Requested Total Number of Containers:	
Sample Identification DUP-4 EB-4-1-30-19 FB-4-1-30-19 GWC-33 GWC-32 GWC-30 GWC-5 GWC-6 GWC-10 GWC-24 GWC-31		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 - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Date 1-30-19 1-30-19 1-30-19 1-30-19 1-30-19 1-30-19 1-30-19 1-30-19 1-31-19 1-31-19 1-31-19		Special Instructions/Note: STATE METALS LIST ONLY	
Sample Time / 1430 1120 1115 1345 1500 1128 1220 1435 1232 1330		Field Filtered Sample (Yes or No) MM MM MM MM MM MM MM MM MM MM MM	
Matrix Water Water Water Water Water Water Water Water Water Water		State Permit Metals (EPA 6020 & 7470) As B, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg, Be, Ca, Cd, D	
Sample Type G G G G G G G G G G G		Perform MS/MSD (Yes or No) X X X X X X X X X X X	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input 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: <i>Joju Abraham</i> Date/Time: 2-1-19 / 1550 Company: ACC		Relinquished by: <i>Veronica Bortol</i> Date/Time: 2-2-19 / 1119 Company: TA	
Relinquished by: <i>Joju Abraham</i> Date/Time: 2-1-19 / 1630 Company: TA		Relinquished by: <i>Veronica Bortol</i> Date/Time: 2-2-19 / 1145 Company: TA	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TEST

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ING

Part #: 158469-424 RITZ EXP 10/19

ORIGIN ID: MULA (678) 966-9991  
LEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

SHIP DATE: 01FEB19  
ACTWGT: 53.90 LB  
CAD: 859116/CAFE3

BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA**

(412) 963-7068  
REF: SOUTHERN



FedEx  
Express



**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

4651 0080 4443

## XO AGCA

15238

PA-US PIT

Uncorrected temp  
Thermometer ID

23  
10

CF 0

Initials TS

PT-WI-SR-001 effective 11/8/18



180-86319 Waybill

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86319-2

SDG Number: State

**Login Number: 86319**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86210-1

TestAmerica Sample Delivery Group: AppIII

Client Project/Site: CCR - Plant Wansley

Revision: 1

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

3/14/2019 5:19:57 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-86210-1  
SDG: AppIII

**Job ID: 180-86210-1**

**Laboratory: TestAmerica Pittsburgh**

## Narrative

**Job Narrative**  
**180-86210-1**

**Revised: to report B and Ca**

### Comments

No additional comments.

### Receipt

The samples were received on 1/30/2019 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

### Anions

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

TestAmerica Job ID: 180-86210-1  
SDG: AppIII

## 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.

### 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)
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

TestAmerica Job ID: 180-86210-1  
 SDG: ApplIII

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19 *
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19 *
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-86210-1  
SDG: ApplIII

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86210-1	SWA-1	Water	01/28/19 14:08	01/30/19 10:20
180-86210-2	SWA-6	Water	01/28/19 12:35	01/30/19 10:20
180-86210-3	SWC-2	Water	01/28/19 13:43	01/30/19 10:20
180-86210-4	SWC-3	Water	01/28/19 12:56	01/30/19 10:20
180-86210-5	SWC-4	Water	01/28/19 13:20	01/30/19 10:20
180-86210-6	SWC-5	Water	01/28/19 12:00	01/30/19 10:20
180-86210-7	SWC-7	Water	01/28/19 14:45	01/30/19 10:20
180-86210-8	SWC-8	Water	01/28/19 11:35	01/30/19 10:20

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# Method Summary

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

TestAmerica Job ID: 180-86210-1  
SDG: ApplIII

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

### Protocol References:

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

# Lab Chronicle

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

TestAmerica Job ID: 180-86210-1  
SDG: ApplIII

## Client Sample ID: SWA-1

Date Collected: 01/28/19 14:08

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-1

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			269428	02/02/19 19:19	CMR	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:00	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: SWA-6

Date Collected: 01/28/19 12:35

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-2

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			269428	02/02/19 19:35	CMR	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:03	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: SWC-2

Date Collected: 01/28/19 13:43

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-3

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			269428	02/02/19 19:51	CMR	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:07	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: SWC-3

Date Collected: 01/28/19 12:56

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-4

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	300.0		1			269428	02/02/19 20:06	CMR	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86210-1  
SDG: AppIII

## Client Sample ID: SWC-3

Date Collected: 01/28/19 12:56

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:10	WTR	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: SWC-4

Date Collected: 01/28/19 13:20

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-5

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			269443	02/04/19 15:53	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:14	WTR	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: SWC-5

Date Collected: 01/28/19 12:00

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-6

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			269443	02/04/19 16:09	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:17	WTR	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
	Instrument ID: NOEQUIP									

## Client Sample ID: SWC-7

Date Collected: 01/28/19 14:45

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-7

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	300.0		1			269443	02/04/19 16:25	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:20	WTR	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
	Instrument ID: NOEQUIP									

TestAmerica Pittsburgh

# Lab Chronicle

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

TestAmerica Job ID: 180-86210-1  
SDG: ApplIII

**Client Sample ID: SWC-8**

**Date Collected: 01/28/19 11:35**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-8**

**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			269443	02/04/19 16:40	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:24	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	269282	01/31/19 14:50	TAM	TAL PIT
		Instrument ID: NOEQUIP								

## Laboratory References:

TAL PIT = 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

Batch Type: Analysis

CMR = Carl Reagle

MJH = Matthew Hartman

TAM = Tessa Mastalski

WTR = Bill Reinheimer

# Client Sample Results

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

TestAmerica Job ID: 180-86210-1  
SDG: AppIII

**Client Sample ID: SWA-1**  
Date Collected: 01/28/19 14:08  
Date Received: 01/30/19 10:20

**Lab Sample ID: 180-86210-1**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		1.0	0.71	mg/L			02/02/19 19:19	1
Fluoride	0.027	J	0.20	0.026	mg/L			02/02/19 19:19	1
Sulfate	2.3		1.0	0.38	mg/L			02/02/19 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2.0		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:00	1
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		10	10	mg/L			01/31/19 14:50	1

**Client Sample ID: SWA-6**  
Date Collected: 01/28/19 12:35  
Date Received: 01/30/19 10:20

**Lab Sample ID: 180-86210-2**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		1.0	0.71	mg/L			02/02/19 19:35	1
Fluoride	0.038	J	0.20	0.026	mg/L			02/02/19 19:35	1
Sulfate	3.6		1.0	0.38	mg/L			02/02/19 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.2		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:03	1
Boron	0.035	J	0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	37		10	10	mg/L			01/31/19 14:50	1

**Client Sample ID: SWC-2**  
Date Collected: 01/28/19 13:43  
Date Received: 01/30/19 10:20

**Lab Sample ID: 180-86210-3**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		1.0	0.71	mg/L			02/02/19 19:51	1
Fluoride	0.11	J	0.20	0.026	mg/L			02/02/19 19:51	1
Sulfate	1.2		1.0	0.38	mg/L			02/02/19 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	13		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:07	1
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			01/31/19 14:50	1

TestAmerica Pittsburgh

# Client Sample Results

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

TestAmerica Job ID: 180-86210-1  
SDG: AppIII

**Client Sample ID: SWC-3**  
Date Collected: 01/28/19 12:56  
Date Received: 01/30/19 10:20

**Lab Sample ID: 180-86210-4**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		1.0	0.71	mg/L			02/02/19 20:06	1
Fluoride	0.19	J	0.20	0.026	mg/L			02/02/19 20:06	1
Sulfate	2.3		1.0	0.38	mg/L			02/02/19 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8.0		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:10	1
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			01/31/19 14:50	1

**Client Sample ID: SWC-4**  
Date Collected: 01/28/19 13:20  
Date Received: 01/30/19 10:20

**Lab Sample ID: 180-86210-5**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.71	mg/L			02/04/19 15:53	1
Fluoride	0.060	J	0.20	0.026	mg/L			02/04/19 15:53	1
Sulfate	1.6		1.0	0.38	mg/L			02/04/19 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4.9		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:14	1
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	73		10	10	mg/L			01/31/19 14:50	1

**Client Sample ID: SWC-5**  
Date Collected: 01/28/19 12:00  
Date Received: 01/30/19 10:20

**Lab Sample ID: 180-86210-6**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		1.0	0.71	mg/L			02/04/19 16:09	1
Fluoride	0.079	J	0.20	0.026	mg/L			02/04/19 16:09	1
Sulfate	9.7		1.0	0.38	mg/L			02/04/19 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	14		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:17	1
Boron	0.14		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			01/31/19 14:50	1

TestAmerica Pittsburgh



# Client Sample Results

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

TestAmerica Job ID: 180-86210-1  
SDG: ApplIII

**Client Sample ID: SWC-7**

**Date Collected: 01/28/19 14:45**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-7**

**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.8		1.0	0.71	mg/L			02/04/19 16:25	1
Fluoride	0.055	J	0.20	0.026	mg/L			02/04/19 16:25	1
Sulfate	6.2		1.0	0.38	mg/L			02/04/19 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4.3		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:20	1
Boron	0.055		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		10	10	mg/L			01/31/19 14:50	1

**Client Sample ID: SWC-8**

**Date Collected: 01/28/19 11:35**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-8**

**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		1.0	0.71	mg/L			02/04/19 16:40	1
Fluoride	0.034	J	0.20	0.026	mg/L			02/04/19 16:40	1
Sulfate	14		1.0	0.38	mg/L			02/04/19 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	10		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 15:24	1
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 15:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			01/31/19 14:50	1

# QC Sample Results

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

TestAmerica Job ID: 180-86210-1  
SDG: AppIII

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-269428/6  
Matrix: Water  
Analysis Batch: 269428

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/02/19 11:07	1
Fluoride	<0.026		0.20	0.026	mg/L			02/02/19 11:07	1
Sulfate	<0.38		1.0	0.38	mg/L			02/02/19 11:07	1

Lab Sample ID: LCS 180-269428/5  
Matrix: Water  
Analysis Batch: 269428

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.1		mg/L		96	90 - 110
Fluoride	1.25	1.22		mg/L		98	90 - 110
Sulfate	25.0	23.9		mg/L		95	90 - 110

Lab Sample ID: MB 180-269443/39  
Matrix: Water  
Analysis Batch: 269443

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			02/04/19 14:18	1
Fluoride	<0.026		0.20	0.026	mg/L			02/04/19 14:18	1
Sulfate	<0.38		1.0	0.38	mg/L			02/04/19 14:18	1

Lab Sample ID: LCS 180-269443/38  
Matrix: Water  
Analysis Batch: 269443

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.2		mg/L		101	90 - 110
Fluoride	1.25	1.29		mg/L		103	90 - 110
Sulfate	25.0	25.0		mg/L		100	90 - 110

Lab Sample ID: 180-86210-8 MS  
Matrix: Water  
Analysis Batch: 269443

Client Sample ID: SWC-8  
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	30.7		mg/L		106	80 - 120
Fluoride	0.034	J	1.25	1.48		mg/L		116	80 - 120
Sulfate	14		25.0	42.1		mg/L		111	80 - 120

Lab Sample ID: 180-86210-8 MSD  
Matrix: Water  
Analysis Batch: 269443

Client Sample ID: SWC-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	4.1		25.0	31.0		mg/L		108	80 - 120	1	20
Fluoride	0.034	J	1.25	1.46		mg/L		114	80 - 120	1	20
Sulfate	14		25.0	41.2		mg/L		107	80 - 120	2	20

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86210-1  
SDG: AppIII

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-269503/1-A**  
**Matrix: Water**  
**Analysis Batch: 270091**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269503**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.12		0.25	0.12	mg/L		02/04/19 12:32	02/09/19 14:43	1
Boron	<0.030		0.050	0.030	mg/L		02/04/19 12:32	02/09/19 14:43	1

**Lab Sample ID: LCS 180-269503/2-A**  
**Matrix: Water**  
**Analysis Batch: 270091**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269503**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.512		mg/L		102	80 - 120
Barium	2.00	2.11		mg/L		105	80 - 120
Arsenic	0.0400	0.0397		mg/L		99	80 - 120
Calcium	50.0	53.6		mg/L		107	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-269282/2**  
**Matrix: Water**  
**Analysis Batch: 269282**

**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			01/31/19 14:50	1

**Lab Sample ID: LCS 180-269282/1**  
**Matrix: Water**  
**Analysis Batch: 269282**

**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	204	212		mg/L		104	80 - 120

# QC Association Summary

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

TestAmerica Job ID: 180-86210-1  
SDG: AppIII

## HPLC/IC

### Analysis Batch: 269428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-1	SWA-1	Total/NA	Water	300.0	
180-86210-2	SWA-6	Total/NA	Water	300.0	
180-86210-3	SWC-2	Total/NA	Water	300.0	
180-86210-4	SWC-3	Total/NA	Water	300.0	
MB 180-269428/6	Method Blank	Total/NA	Water	300.0	
LCS 180-269428/5	Lab Control Sample	Total/NA	Water	300.0	

### Analysis Batch: 269443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-5	SWC-4	Total/NA	Water	300.0	
180-86210-6	SWC-5	Total/NA	Water	300.0	
180-86210-7	SWC-7	Total/NA	Water	300.0	
180-86210-8	SWC-8	Total/NA	Water	300.0	
MB 180-269443/39	Method Blank	Total/NA	Water	300.0	
LCS 180-269443/38	Lab Control Sample	Total/NA	Water	300.0	
180-86210-8 MS	SWC-8	Total/NA	Water	300.0	
180-86210-8 MSD	SWC-8	Total/NA	Water	300.0	

## Metals

### Prep Batch: 269503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-1	SWA-1	Total Recoverable	Water	3005A	
180-86210-2	SWA-6	Total Recoverable	Water	3005A	
180-86210-3	SWC-2	Total Recoverable	Water	3005A	
180-86210-4	SWC-3	Total Recoverable	Water	3005A	
180-86210-5	SWC-4	Total Recoverable	Water	3005A	
180-86210-6	SWC-5	Total Recoverable	Water	3005A	
180-86210-7	SWC-7	Total Recoverable	Water	3005A	
180-86210-8	SWC-8	Total Recoverable	Water	3005A	
MB 180-269503/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-269503/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 270091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-1	SWA-1	Total Recoverable	Water	EPA 6020	269503
180-86210-2	SWA-6	Total Recoverable	Water	EPA 6020	269503
180-86210-3	SWC-2	Total Recoverable	Water	EPA 6020	269503
180-86210-4	SWC-3	Total Recoverable	Water	EPA 6020	269503
180-86210-5	SWC-4	Total Recoverable	Water	EPA 6020	269503
180-86210-6	SWC-5	Total Recoverable	Water	EPA 6020	269503
180-86210-7	SWC-7	Total Recoverable	Water	EPA 6020	269503
180-86210-8	SWC-8	Total Recoverable	Water	EPA 6020	269503
MB 180-269503/1-A	Method Blank	Total Recoverable	Water	EPA 6020	269503
LCS 180-269503/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	269503

TestAmerica Pittsburgh

# QC Association Summary

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


TestAmerica Job ID: 180-86210-1  
SDG: ApplIII

## General Chemistry

### Analysis Batch: 269282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-1	SWA-1	Total/NA	Water	SM 2540C	
180-86210-2	SWA-6	Total/NA	Water	SM 2540C	
180-86210-3	SWC-2	Total/NA	Water	SM 2540C	
180-86210-4	SWC-3	Total/NA	Water	SM 2540C	
180-86210-5	SWC-4	Total/NA	Water	SM 2540C	
180-86210-6	SWC-5	Total/NA	Water	SM 2540C	
180-86210-7	SWC-7	Total/NA	Water	SM 2540C	
180-86210-8	SWC-8	Total/NA	Water	SM 2540C	
MB 180-269282/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-269282/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: (770) 544-5998 Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): Lab No: Page: Job #: Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Archlor 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)	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SSOW#:		Analysis Requested Total Number of Containers:	
Sample Identification SWA-1 SWA-6 SWC-2 SWC-3 SWC-4 SWC-5 SWC-7 SWC-8		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App III (EPA 6020/470) As, Ba, Sb Cl, F, SO4, & TDS EPA 300.0 & SM 2540C N, S, Pb, Se, Mg, Ti, V, Zn, Pb 3 State Permit Metals (S, Pb, Bi, Cr, Cd, Cu, Co, Ni, Hg)	
Sample Date 1-28-19 1-28-19 1-28-19 1-28-19 1-28-19 1-28-19 1-28-19 1-28-19		Sample Time 1408 1235 1343 1320 1700 1745 1445 1135	
Sample Type G=grab G G G G G G G		Matrix (W=water, S=solid, O=wastewater, B=biological, A=air) Water Water Water Water Water Water Water Water	
Preservation Code: D N N N N N N N		Special Instructions/Note: APP III 180-86210 Chain of Custody 	
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: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]			
Date/Time: 1-24-18 0900 Date/Time: 1-29-18 0901 Date/Time:		Date/Time: 1-29-19 Date/Time: 1-30-19 Date/Time: 10:20	
Company: ACC Company: Company Company: Company		Company: 0900 Company: TAP H Company:	
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	



DEC 10 06:30  
A 15:00

RT 97

# America

Part # 1591459-434 HITE EXP 10/19

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

SHIP DATE: 29 JAN 19  
ACTWGT: 55.35 LB  
CAD: 859116/CAFE3211

BILL RECEIPT

TO **SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE**

**PITTSBURGH PA 15238**

(412) 963-7058

REF:

DEPT:



**FedEx  
Express**



**WED - 30 JAN 3:00P  
STANDARD OVERNIGHT**

TRK# 4651 0080 3940  
0201

# NA AGCA

**15238  
PA-US PIT**

Uncorrected temp  
Thermometer ID

21 °C  
10

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18



180-86210 Waybill

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## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86210-1

SDG Number: AppIII

**Login Number: 86210**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86210-2

TestAmerica Sample Delivery Group: State

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/13/2019 4:27:56 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

TestAmerica Job ID: 180-86210-2  
SDG: State

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**Job ID: 180-86210-2**

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**Laboratory: TestAmerica Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-86210-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 1/30/2019 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

**Metals**

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

TestAmerica Job ID: 180-86210-2  
SDG: State

## 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.
B	Compound was found in the blank and sample.

## 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

TestAmerica Job ID: 180-86210-2  
SDG: State

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-86210-2  
SDG: State

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86210-1	SWA-1	Water	01/28/19 14:08	01/30/19 10:20
180-86210-2	SWA-6	Water	01/28/19 12:35	01/30/19 10:20
180-86210-3	SWC-2	Water	01/28/19 13:43	01/30/19 10:20
180-86210-4	SWC-3	Water	01/28/19 12:56	01/30/19 10:20
180-86210-5	SWC-4	Water	01/28/19 13:20	01/30/19 10:20
180-86210-6	SWC-5	Water	01/28/19 12:00	01/30/19 10:20
180-86210-7	SWC-7	Water	01/28/19 14:45	01/30/19 10:20
180-86210-8	SWC-8	Water	01/28/19 11:35	01/30/19 10:20

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# Method Summary

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

TestAmerica Job ID: 180-86210-2  
SDG: State

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

**Laboratory References:**

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



# Lab Chronicle

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

TestAmerica Job ID: 180-86210-2  
SDG: State

**Client Sample ID: SWA-1**  
**Date Collected: 01/28/19 14:08**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-1**  
**Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			270091	02/09/19 15:00	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	269600	02/05/19 10:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			269770	02/06/19 15:13	KA	TAL PIT

**Client Sample ID: SWA-6**  
**Date Collected: 01/28/19 12:35**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-2**  
**Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			270091	02/09/19 15:03	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	269600	02/05/19 10:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			269770	02/06/19 15:14	KA	TAL PIT

**Client Sample ID: SWC-2**  
**Date Collected: 01/28/19 13:43**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-3**  
**Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			270091	02/09/19 15:07	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	269600	02/05/19 10:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			269770	02/06/19 15:02	KA	TAL PIT

**Client Sample ID: SWC-3**  
**Date Collected: 01/28/19 12:56**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-4**  
**Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			270091	02/09/19 15:10	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	269600	02/05/19 10:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			269770	02/06/19 15:03	KA	TAL PIT



# Lab Chronicle

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

TestAmerica Job ID: 180-86210-2  
SDG: State

## Client Sample ID: SWC-4

Date Collected: 01/28/19 13:20

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-5

Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:14	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269600	02/05/19 10:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269770	02/06/19 15:04	KA	TAL PIT
Instrument ID: HGZ										

## Client Sample ID: SWC-5

Date Collected: 01/28/19 12:00

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-6

Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:17	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269600	02/05/19 10:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269770	02/06/19 15:05	KA	TAL PIT
Instrument ID: HGZ										

## Client Sample ID: SWC-7

Date Collected: 01/28/19 14:45

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-7

Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:20	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269600	02/05/19 10:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269770	02/06/19 15:06	KA	TAL PIT
Instrument ID: HGZ										

## Client Sample ID: SWC-8

Date Collected: 01/28/19 11:35

Date Received: 01/30/19 10:20

## Lab Sample ID: 180-86210-8

Matrix: 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	269503	02/04/19 12:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			270091	02/09/19 15:24	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	269600	02/05/19 10:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			269770	02/06/19 15:07	KA	TAL PIT
Instrument ID: HGZ										

# Lab Chronicle

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

TestAmerica Job ID: 180-86210-2  
SDG: State

## Laboratory References:

TAL PIT = 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

KA = Kayla Kalamasz

WTR = Bill Reinheimer

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# Client Sample Results

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

TestAmerica Job ID: 180-86210-2  
SDG: State

**Client Sample ID: SWA-1**  
**Date Collected: 01/28/19 14:08**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-1**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:00	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:00	1
<b>Barium</b>	<b>0.021</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:00	1
<b>Beryllium</b>	<b>0.00012</b>	<b>J</b>	0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:00	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:00	1
<b>Cobalt</b>	<b>0.00038</b>	<b>J</b>	0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:00	1
<b>Chromium</b>	<b>0.0017</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:00	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:00	1
<b>Nickel</b>	<b>0.00051</b>	<b>J</b>	0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:00	1
<b>Lead</b>	<b>0.00045</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:00	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:00	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:00	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:00	1
<b>Vanadium</b>	<b>0.0016</b>		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:00	1
<b>Zinc</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:00	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		02/05/19 10:24	02/06/19 15:13	1

**Client Sample ID: SWA-6**  
**Date Collected: 01/28/19 12:35**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Arsenic</b>	<b>0.00084</b>	<b>J</b>	0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Barium</b>	<b>0.023</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Beryllium</b>	<b>0.000091</b>	<b>J</b>	0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:03	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Cobalt</b>	<b>0.00051</b>	<b>J</b>	0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Chromium</b>	<b>0.00091</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:03	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Nickel</b>	<b>0.00051</b>	<b>J</b>	0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Lead</b>	<b>0.00037</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:03	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:03	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:03	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Vanadium</b>	<b>0.0010</b>		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:03	1
<b>Zinc</b>	<b>0.0045</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:03	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		02/05/19 10:24	02/06/19 15:14	1

# Client Sample Results

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

TestAmerica Job ID: 180-86210-2  
SDG: State

**Client Sample ID: SWC-2**  
**Date Collected: 01/28/19 13:43**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-3**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:07	1
<b>Arsenic</b>	<b>0.00048</b>	<b>J</b>	0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:07	1
<b>Barium</b>	<b>0.061</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:07	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:07	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:07	1
<b>Cobalt</b>	<b>0.0044</b>		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:07	1
<b>Chromium</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:07	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:07	1
<b>Nickel</b>	<b>0.00043</b>	<b>J</b>	0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:07	1
<b>Lead</b>	<b>0.00021</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:07	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:07	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:07	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:07	1
<b>Vanadium</b>	<b>0.0011</b>		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:07	1
<b>Zinc</b>	<b>0.0029</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:07	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		02/05/19 10:24	02/06/19 15:02	1

**Client Sample ID: SWC-3**  
**Date Collected: 01/28/19 12:56**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.00039</b>	<b>J</b>	0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:10	1
<b>Arsenic</b>	<b>0.00047</b>	<b>J</b>	0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:10	1
<b>Barium</b>	<b>0.037</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:10	1
<b>Beryllium</b>	<b>0.000081</b>	<b>J</b>	0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:10	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:10	1
<b>Cobalt</b>	<b>0.10</b>		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:10	1
<b>Chromium</b>	<b>0.0017</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:10	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:10	1
<b>Nickel</b>	<b>0.0031</b>		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:10	1
<b>Lead</b>	<b>0.00014</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:10	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:10	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:10	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:10	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:10	1
Zinc	<0.0024		0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:10	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		02/05/19 10:24	02/06/19 15:03	1

# Client Sample Results

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

TestAmerica Job ID: 180-86210-2  
SDG: State

**Client Sample ID: SWC-4**  
**Date Collected: 01/28/19 13:20**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-5**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:14	1
<b>Arsenic</b>	<b>0.00059</b>	<b>J</b>	0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:14	1
<b>Barium</b>	<b>0.051</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:14	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:14	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:14	1
<b>Cobalt</b>	<b>0.010</b>		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:14	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:14	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:14	1
<b>Nickel</b>	<b>0.00043</b>	<b>J</b>	0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:14	1
<b>Lead</b>	<b>0.00016</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:14	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:14	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:14	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:14	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:14	1
Zinc	<0.0024		0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:14	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		02/05/19 10:24	02/06/19 15:04	1

**Client Sample ID: SWC-5**  
**Date Collected: 01/28/19 12:00**  
**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-6**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:17	1
<b>Arsenic</b>	<b>0.00049</b>	<b>J</b>	0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:17	1
<b>Barium</b>	<b>0.062</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:17	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:17	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:17	1
<b>Cobalt</b>	<b>0.0025</b>		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:17	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:17	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:17	1
<b>Nickel</b>	<b>0.0017</b>		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:17	1
<b>Lead</b>	<b>0.00035</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:17	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:17	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:17	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:17	1
<b>Vanadium</b>	<b>0.0013</b>		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:17	1
<b>Zinc</b>	<b>0.0030</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:17	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		02/05/19 10:24	02/06/19 15:05	1

# Client Sample Results

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

TestAmerica Job ID: 180-86210-2  
SDG: State

**Client Sample ID: SWC-7**

**Date Collected: 01/28/19 14:45**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-7**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:20	1
<b>Arsenic</b>	<b>0.00087</b>	<b>J</b>	0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:20	1
<b>Barium</b>	<b>0.026</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:20	1
<b>Beryllium</b>	<b>0.000089</b>	<b>J</b>	0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:20	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:20	1
<b>Cobalt</b>	<b>0.00061</b>	<b>J</b>	0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:20	1
<b>Chromium</b>	<b>0.00082</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:20	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:20	1
<b>Nickel</b>	<b>0.00062</b>	<b>J</b>	0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:20	1
<b>Lead</b>	<b>0.00033</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:20	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:20	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:20	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:20	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:20	1
<b>Zinc</b>	<b>0.0045</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:20	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		02/05/19 10:24	02/06/19 15:06	1

**Client Sample ID: SWC-8**

**Date Collected: 01/28/19 11:35**

**Date Received: 01/30/19 10:20**

**Lab Sample ID: 180-86210-8**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 15:24	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 15:24	1
<b>Barium</b>	<b>0.040</b>		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 15:24	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 15:24	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 15:24	1
<b>Cobalt</b>	<b>0.0029</b>		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 15:24	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 15:24	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 15:24	1
<b>Nickel</b>	<b>0.00061</b>	<b>J</b>	0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 15:24	1
<b>Lead</b>	<b>0.00021</b>	<b>J B</b>	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 15:24	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 15:24	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 15:24	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 15:24	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 15:24	1
<b>Zinc</b>	<b>0.0032</b>	<b>J</b>	0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 15:24	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		02/05/19 10:24	02/06/19 15:07	1

# QC Sample Results

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

TestAmerica Job ID: 180-86210-2  
SDG: State

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-269503/1-A**  
**Matrix: Water**  
**Analysis Batch: 270091**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269503**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/04/19 12:32	02/09/19 14:43	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		02/04/19 12:32	02/09/19 14:43	1
Barium	<0.00037		0.0025	0.00037	mg/L		02/04/19 12:32	02/09/19 14:43	1
Beryllium	<0.000057		0.0025	0.000057	mg/L		02/04/19 12:32	02/09/19 14:43	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		02/04/19 12:32	02/09/19 14:43	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		02/04/19 12:32	02/09/19 14:43	1
Chromium	<0.00063		0.0025	0.00063	mg/L		02/04/19 12:32	02/09/19 14:43	1
Copper	<0.0013		0.0025	0.0013	mg/L		02/04/19 12:32	02/09/19 14:43	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/04/19 12:32	02/09/19 14:43	1
Lead	0.000116	J	0.0010	0.000094	mg/L		02/04/19 12:32	02/09/19 14:43	1
Antimony	<0.0011		0.0025	0.0011	mg/L		02/04/19 12:32	02/09/19 14:43	1
Selenium	<0.00081		0.0013	0.00081	mg/L		02/04/19 12:32	02/09/19 14:43	1
Thallium	<0.000063		0.00050	0.000063	mg/L		02/04/19 12:32	02/09/19 14:43	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/04/19 12:32	02/09/19 14:43	1
Zinc	<0.0024		0.0050	0.0024	mg/L		02/04/19 12:32	02/09/19 14:43	1

**Lab Sample ID: LCS 180-269503/2-A**  
**Matrix: Water**  
**Analysis Batch: 270091**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269503**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.0500	0.0510		mg/L		102	80 - 120
Arsenic	0.0400	0.0397		mg/L		99	80 - 120
Barium	2.00	2.11		mg/L		105	80 - 120
Beryllium	0.0500	0.0516		mg/L		103	80 - 120
Cadmium	0.0500	0.0521		mg/L		104	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Copper	0.250	0.253		mg/L		101	80 - 120
Nickel	0.500	0.492		mg/L		98	80 - 120
Lead	0.0200	0.0208		mg/L		104	80 - 120
Antimony	0.500	0.512		mg/L		102	80 - 120
Selenium	0.0100	0.00983		mg/L		98	80 - 120
Thallium	0.0500	0.0494		mg/L		99	80 - 120
Vanadium	0.500	0.510		mg/L		102	80 - 120
Zinc	0.500	0.497		mg/L		99	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-269600/1-A**  
**Matrix: Water**  
**Analysis Batch: 269770**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 269600**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/05/19 10:24	02/06/19 14:50	1

TestAmerica Pittsburgh

# QC Sample Results

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

TestAmerica Job ID: 180-86210-2  
SDG: State

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-269600/2-A  
Matrix: Water  
Analysis Batch: 269770

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 269600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

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# QC Association Summary

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

TestAmerica Job ID: 180-86210-2  
SDG: State

## Metals

### Prep Batch: 269503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-1	SWA-1	Total Recoverable	Water	3005A	
180-86210-2	SWA-6	Total Recoverable	Water	3005A	
180-86210-3	SWC-2	Total Recoverable	Water	3005A	
180-86210-4	SWC-3	Total Recoverable	Water	3005A	
180-86210-5	SWC-4	Total Recoverable	Water	3005A	
180-86210-6	SWC-5	Total Recoverable	Water	3005A	
180-86210-7	SWC-7	Total Recoverable	Water	3005A	
180-86210-8	SWC-8	Total Recoverable	Water	3005A	
MB 180-269503/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-269503/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 269600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-1	SWA-1	Total/NA	Water	7470A	
180-86210-2	SWA-6	Total/NA	Water	7470A	
180-86210-3	SWC-2	Total/NA	Water	7470A	
180-86210-4	SWC-3	Total/NA	Water	7470A	
180-86210-5	SWC-4	Total/NA	Water	7470A	
180-86210-6	SWC-5	Total/NA	Water	7470A	
180-86210-7	SWC-7	Total/NA	Water	7470A	
180-86210-8	SWC-8	Total/NA	Water	7470A	
MB 180-269600/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-269600/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 269770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-1	SWA-1	Total/NA	Water	EPA 7470A	269600
180-86210-2	SWA-6	Total/NA	Water	EPA 7470A	269600
180-86210-3	SWC-2	Total/NA	Water	EPA 7470A	269600
180-86210-4	SWC-3	Total/NA	Water	EPA 7470A	269600
180-86210-5	SWC-4	Total/NA	Water	EPA 7470A	269600
180-86210-6	SWC-5	Total/NA	Water	EPA 7470A	269600
180-86210-7	SWC-7	Total/NA	Water	EPA 7470A	269600
180-86210-8	SWC-8	Total/NA	Water	EPA 7470A	269600
MB 180-269600/1-A	Method Blank	Total/NA	Water	EPA 7470A	269600
LCS 180-269600/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	269600

### Analysis Batch: 270091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86210-1	SWA-1	Total Recoverable	Water	EPA 6020	269503
180-86210-2	SWA-6	Total Recoverable	Water	EPA 6020	269503
180-86210-3	SWC-2	Total Recoverable	Water	EPA 6020	269503
180-86210-4	SWC-3	Total Recoverable	Water	EPA 6020	269503
180-86210-5	SWC-4	Total Recoverable	Water	EPA 6020	269503
180-86210-6	SWC-5	Total Recoverable	Water	EPA 6020	269503
180-86210-7	SWC-7	Total Recoverable	Water	EPA 6020	269503
180-86210-8	SWC-8	Total Recoverable	Water	EPA 6020	269503
MB 180-269503/1-A	Method Blank	Total Recoverable	Water	EPA 6020	269503
LCS 180-269503/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	269503

TestAmerica Pittsburgh

### Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): Lab No: Page: Job #: 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)	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SSOW#: Matrix (W=water, S=solid, O=wastewat, B=biotic, A=air)		Analysis Requested Total Number of Containers Special Instructions/Note: APP III 180-86210 Chain of Custody	
Sample Identification SWA-1 SWA-6 SWC-2 SWC-3 SWC-4 SWC-5 SWC-7 SWC-8		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App III (EPA 6020/470) As, Ba, Sb Cr, Ti, SO4, & TDS (EPA 300.0 & SM 2540C) M, S, P, Se, Mg, Fe, Zn, Pb, Cu, Pb	
Sample Date 1-28-19 1-28-19 1-28-19 1-28-19 1-28-19 1-28-19 1-28-19		Sample Time 1408 1235 1343 1320 1700 1445 1135	
Sample Type (C=Comp, G=grab) G G G G G G G		Preservation Code: 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)			
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]			
Date/Time: 1-24-18 0900 Date/Time: 1-29-18 0901 Date/Time:			
Company: ACC Company: Company Company: Company			
Custody Seal No.: Δ Yes Δ No			



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DEC 10 06:30 A 15:00 RT 97  
America  
THE LEADER IN ENVIRONMENTAL TESTING  
Part # 1591459-434 HITE EXP 10/19

ORIGIN ID: MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

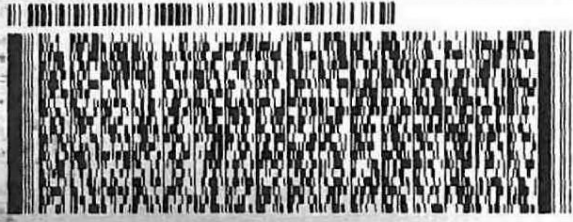
SHIP DATE: 29 JAN 19  
ACTWGT: 55.35 LB  
CAD: 859116/CAFE3211

BILL RECEIPT

TO SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7058 REF: DEPT:  
INU: PO:



FedEx  
Express  
E

TRK# 4651 0080 3940  
0201

WED - 30 JAN 3:00P  
STANDARD OVERNIGHT

NA AGCA

15238  
PA-US PIT

Uncorrected temp  
Thermometer ID

21  
10 °C

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18



180-86210 Waybill

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86210-2

SDG Number: State

**Login Number: 86210**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-86317-1

TestAmerica SDG: Plant Wansley Effluent State Permit

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

2/18/2019 4:36:16 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

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**Job ID: 180-86317-1**

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**Laboratory: TestAmerica Pittsburgh**

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**Narrative**

**Job Narrative  
180-86317-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/2/2019 11:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

**Metals**

Method(s) 7470A: Samples EFFLUENT UNIT 1 (180-86317-1) and EFFLUENT UNIT 2 (180-86317-2) were prepped and digested at a 10X dilution due to the nature of the sample matrix.

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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

## 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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19 *
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-86317-1	EFFLUENT UNIT 1	Water	02/01/19 13:35	02/02/19 11:45
180-86317-2	EFFLUENT UNIT 2	Effluent	02/01/19 13:45	02/02/19 11:45

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# Method Summary

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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

**Laboratory References:**

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



# Lab Chronicle

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

TestAmerica Job ID: 180-86317-1  
 SDG: Plant Wansley Effluent State Permit

## Client Sample ID: EFFLUENT UNIT 1

Lab Sample ID: 180-86317-1

Date Collected: 02/01/19 13:35

Matrix: Water

Date Received: 02/02/19 11:45

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	269615	02/05/19 12:09	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	270219	02/11/19 23:14	WTR	TAL PIT
		Instrument ID: M								
Total/NA	Prep	7470A			5 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 19:05	RJR	TAL PIT
		Instrument ID: HGZ								

## Client Sample ID: EFFLUENT UNIT 2

Lab Sample ID: 180-86317-2

Date Collected: 02/01/19 13:45

Matrix: Effluent

Date Received: 02/02/19 11:45

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	269615	02/05/19 12:09	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	270219	02/11/19 23:18	WTR	TAL PIT
		Instrument ID: M								
Total/NA	Prep	7470A			5 mL	50 mL	270061	02/11/19 10:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			270118	02/11/19 19:06	RJR	TAL PIT
		Instrument ID: HGZ								

### Laboratory References:

TAL PIT = 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

RJR = Ron Rosenbaum

WTR = Bill Reinheimer

# Client Sample Results

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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

## Client Sample ID: EFFLUENT UNIT 1

## Lab Sample ID: 180-86317-1

Date Collected: 02/01/19 13:35

Matrix: Water

Date Received: 02/02/19 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00021	J	0.0010	0.00012	mg/L		02/05/19 12:09	02/11/19 23:14	1
Arsenic	0.046		0.0010	0.00032	mg/L		02/05/19 12:09	02/11/19 23:14	1
Barium	0.53		0.010	0.0015	mg/L		02/05/19 12:09	02/11/19 23:14	1
Beryllium	0.0046		0.0010	0.00016	mg/L		02/05/19 12:09	02/11/19 23:14	1
Cadmium	0.0051		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 23:14	1
Cobalt	0.030		0.00050	0.000075	mg/L		02/05/19 12:09	02/11/19 23:14	1
Chromium	0.13		0.0020	0.0015	mg/L		02/05/19 12:09	02/11/19 23:14	1
Copper	0.19		0.0020	0.00063	mg/L		02/05/19 12:09	02/11/19 23:14	1
Nickel	0.17		0.0010	0.00031	mg/L		02/05/19 12:09	02/11/19 23:14	1
Lead	0.059		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 23:14	1
Antimony	0.0039		0.0020	0.00038	mg/L		02/05/19 12:09	02/11/19 23:14	1
Selenium	0.50		0.0050	0.0026	mg/L		02/05/19 12:09	02/11/19 23:14	1
Thallium	0.0021		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 23:14	1
Vanadium	0.073		0.0010	0.00090	mg/L		02/05/19 12:09	02/11/19 23:14	1
Zinc	0.30		0.0050	0.0032	mg/L		02/05/19 12:09	02/11/19 23:14	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.0020	0.0010	mg/L		02/11/19 10:53	02/11/19 19:05	1

## Client Sample ID: EFFLUENT UNIT 2

## Lab Sample ID: 180-86317-2

Date Collected: 02/01/19 13:45

Matrix: Effluent

Date Received: 02/02/19 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00025	J	0.0010	0.00012	mg/L		02/05/19 12:09	02/11/19 23:18	1
Arsenic	0.037		0.0010	0.00032	mg/L		02/05/19 12:09	02/11/19 23:18	1
Barium	0.54		0.010	0.0015	mg/L		02/05/19 12:09	02/11/19 23:18	1
Beryllium	0.0044		0.0010	0.00016	mg/L		02/05/19 12:09	02/11/19 23:18	1
Cadmium	0.0060		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 23:18	1
Cobalt	0.014		0.00050	0.000075	mg/L		02/05/19 12:09	02/11/19 23:18	1
Chromium	0.10		0.0020	0.0015	mg/L		02/05/19 12:09	02/11/19 23:18	1
Copper	0.13		0.0020	0.00063	mg/L		02/05/19 12:09	02/11/19 23:18	1
Nickel	0.14		0.0010	0.00031	mg/L		02/05/19 12:09	02/11/19 23:18	1
Lead	0.053		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 23:18	1
Antimony	0.0031		0.0020	0.00038	mg/L		02/05/19 12:09	02/11/19 23:18	1
Selenium	0.44		0.0050	0.0026	mg/L		02/05/19 12:09	02/11/19 23:18	1
Thallium	0.0041		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 23:18	1
Vanadium	0.081		0.0010	0.00090	mg/L		02/05/19 12:09	02/11/19 23:18	1
Zinc	0.30		0.0050	0.0032	mg/L		02/05/19 12:09	02/11/19 23:18	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.0020	0.0010	mg/L		02/11/19 10:53	02/11/19 19:06	1

# QC Sample Results

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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-269615/1-A**  
**Matrix: Water**  
**Analysis Batch: 270219**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269615**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		02/05/19 12:09	02/11/19 21:45	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		02/05/19 12:09	02/11/19 21:45	1
Barium	<0.0015		0.010	0.0015	mg/L		02/05/19 12:09	02/11/19 21:45	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		02/05/19 12:09	02/11/19 21:45	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 21:45	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		02/05/19 12:09	02/11/19 21:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/05/19 12:09	02/11/19 21:45	1
Copper	<0.00063		0.0020	0.00063	mg/L		02/05/19 12:09	02/11/19 21:45	1
Nickel	<0.00031		0.0010	0.00031	mg/L		02/05/19 12:09	02/11/19 21:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 21:45	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/05/19 12:09	02/11/19 21:45	1
Selenium	<0.0026		0.0050	0.0026	mg/L		02/05/19 12:09	02/11/19 21:45	1
Thallium	<0.00013		0.0010	0.00013	mg/L		02/05/19 12:09	02/11/19 21:45	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		02/05/19 12:09	02/11/19 21:45	1
Zinc	<0.0032		0.0050	0.0032	mg/L		02/05/19 12:09	02/11/19 21:45	1

**Lab Sample ID: LCS 180-269615/2-A**  
**Matrix: Water**  
**Analysis Batch: 270219**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 269615**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.0500	0.0518		mg/L		104	80 - 120
Arsenic	0.0400	0.0371		mg/L		93	80 - 120
Barium	2.00	1.87		mg/L		93	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Cobalt	0.500	0.451		mg/L		90	80 - 120
Chromium	0.200	0.176		mg/L		88	80 - 120
Copper	0.250	0.240		mg/L		96	80 - 120
Nickel	0.500	0.451		mg/L		90	80 - 120
Lead	0.0200	0.0207		mg/L		104	80 - 120
Antimony	0.500	0.494		mg/L		99	80 - 120
Selenium	0.0100	0.0107		mg/L		107	80 - 120
Thallium	0.0500	0.0508		mg/L		102	80 - 120
Vanadium	0.500	0.419		mg/L		84	80 - 120
Zinc	0.500	0.470		mg/L		94	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-270061/1-A**  
**Matrix: Water**  
**Analysis Batch: 270118**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 270061**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/11/19 10:53	02/11/19 18:50	1

# QC Sample Results

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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-270061/2-A  
Matrix: Water  
Analysis Batch: 270118

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 270061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00239		mg/L		96	80 - 120

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# QC Association Summary

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

TestAmerica Job ID: 180-86317-1  
SDG: Plant Wansley Effluent State Permit

## Metals

### Prep Batch: 269615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86317-1	EFFLUENT UNIT 1	Total Recoverable	Water	3005A	
180-86317-2	EFFLUENT UNIT 2	Total Recoverable	Effluent	3005A	
MB 180-269615/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-269615/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 270061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86317-1	EFFLUENT UNIT 1	Total/NA	Water	7470A	
180-86317-2	EFFLUENT UNIT 2	Total/NA	Effluent	7470A	
MB 180-270061/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-270061/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 270118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86317-1	EFFLUENT UNIT 1	Total/NA	Water	EPA 7470A	270061
180-86317-2	EFFLUENT UNIT 2	Total/NA	Effluent	EPA 7470A	270061
MB 180-270061/1-A	Method Blank	Total/NA	Water	EPA 7470A	270061
LCS 180-270061/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	270061

### Analysis Batch: 270219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-86317-1	EFFLUENT UNIT 1	Total Recoverable	Water	EPA 6020	269615
180-86317-2	EFFLUENT UNIT 2	Total Recoverable	Effluent	EPA 6020	269615
MB 180-269615/1-A	Method Blank	Total Recoverable	Water	EPA 6020	269615
LCS 180-269615/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	269615



EFF  
681-Atlanta

**681-Atlanta**  
**Chain of Custody Record**

**TestAmerica Pittsburgh**  
301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

<b>Client Information</b> Client Contact: Mr. Evan Perry Company: Atlantic Coast Consulting, Inc. Address: 630 Colonial Park Drive Suite 110 City: Roswell State, Zip: GA, 30075 Phone: SCS10347656 Email: eperry@atcc.net Project Name: CCR - Plant Wansley Effluent Site:		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Camer Tracking No(s): Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SOW#:		GOC No: 180-49212-10400.1 Page: Page 1 of 1 Job #:	
<b>Analysis Requested</b>			
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:		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 Z - other (specify)	
<b>Sample Identification</b>		Total Number of Containers:	
Sample ID Effluent Unit 1 Effluent Unit 2	Sample Date 2-1-19 2-1-19	Sample Time 1335 1345	Sample Type (C=Comp, G=grab) G G
Matrix (W=water, S=solid, O=oil, BT=Trace, A=Air) Water Water	Field Filled Sample (Yes or No) X X	Field Filled Sample (Yes or No) X X	Field Filled Sample (Yes or No) X X
<b>Possible Hazard Identification</b> <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		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
<b>Deliverable Requested: I, II, III, IV, Other (specify)</b>			
<b>Empty Kit Relinquished by:</b> Relinquished by: [Signature] Date: 2-1-19/1550		<b>Method of Shipment:</b> Received by: [Signature] Date/Time: 2-1-19 15:50 Company: ACC	
<b>Relinquished by:</b> Relinquished by: [Signature] Date/Time: 2-1-19 16:30		Received by: [Signature] Date/Time: 2-1-19 11:55 Company: TAP	
<b>Custody Seal Intact:</b> Δ Yes Δ No		<b>Cooler Temperature(s) °C and Other Remarks:</b>	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-86317-1

SDG Number: Plant Wansley Effluent State Permit

**Login Number: 86317**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	



Product Name: Low-Flow System

Date: 2019-01-17 12:07:56

**Project Information:**

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 49 ft  
Pump placement from TOC 44 ft

**Well Information:**

Well ID GWA-1  
Well diameter 2 in  
Well Total Depth 49.85 ft  
Screen Length 10 ft  
Depth to Water 15.28 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.3087077 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 27 in  
Total Volume Pumped 9 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	11:46:42	14.06	5.41	20.05	4.64	17.60	5.64	71.50
Last 5	11:51:42	13.58	5.42	19.92	4.89	17.60	6.05	71.91
Last 5	11:56:42	14.67	5.44	19.99	3.83	17.60	5.95	71.56
Last 5	12:01:42	14.84	5.43	20.01	3.49	17.60	5.68	71.76
Last 5	12:06:42	14.95	5.43	18.84	3.49	17.60	5.80	72.29
Variance 0		1.09	0.02	0.07			-0.10	-0.35
Variance 1		0.18	-0.01	0.02			-0.27	0.20
Variance 2		0.10	-0.00	-1.17			0.12	0.53

**Notes**

Sampled at 12:06 1-17-19. Dup-1 here. Light rain 40's.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-17 13:47:25

**Project Information:**

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type QED Bladder  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 60 ft  
Pump placement from TOC 55 ft

**Well Information:**

Well ID GWA-2  
Well diameter 2 in  
Well Total Depth 60.07 ft  
Screen Length 10 ft  
Depth to Water 39.84 ft

**Pumping Information:**

Final Pumping Rate 245 mL/min  
Total System Volume 0.6578054 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 14 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:26:33	1800.97	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	13:31:33	16.22	5.82	55.48	8.04	39.90	8.41	81.11
Last 5	13:36:33	16.25	5.81	56.33	8.29	39.90	8.49	81.29
Last 5	13:41:33	16.20	5.81	56.91	5.19	39.90	8.42	81.16
Last 5	13:46:33	16.20	5.81	58.02	5.22	39.90	8.42	81.28
Variance 0	13:46:33	3000.93	5.81	58.40	4.86	39.90	8.35	80.82
Variance 1		-0.05	-0.00	0.58			-0.07	-0.13
Variance 2		0.00	0.00	1.11			0.00	0.13
		-0.00	0.00	0.37			-0.07	-0.47

**Notes**

Collect sample at 13:46 on 1-17-19. Light rain 40's.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-18 09:32:36

**Project Information:**

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 31 ft  
Pump placement from TOC 28 ft

**Well Information:**

Well ID GWA-3  
Well diameter 2 in  
Well Total Depth 31.16 ft  
Screen Length 10 ft  
Depth to Water 26.18 ft

**Pumping Information:**

Final Pumping Rate 200 mL/min  
Total System Volume 0.2283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9 in  
Total Volume Pumped 1 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization	09:30:53	300.08	+/- 0.1	+/- 5%	+/- 10	26.90	+/- 0.3	+/- 10
Last 5		14.93	6.06	214.18	4.33		9.03	121.66
Last 5								
Last 5								
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Well had purged dry 1-17-19. Sampled Collected at 09:30 on 1-18-19. Overcast 50's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-17 17:31:44

**Project Information:**

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 40 ft  
Pump placement from TOC 35 ft

**Well Information:**

Well ID GWA-4  
Well diameter 2 in  
Well Total Depth 40.61 ft  
Screen Length 10 ft  
Depth to Water 22.27 ft

**Pumping Information:**

Final Pumping Rate 180 mL/min  
Total System Volume 0.2685369 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 20 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	17:10:22	15.10	6.30	217.66	2.43	22.50	+/- 0.3	+/- 10
Last 5	17:15:22	15.21	6.30	221.45	1.67	22.50	0.29	20.49
Last 5	17:20:22	15.16	6.29	220.75	1.82	22.50	0.29	20.34
Last 5	17:25:22	15.30	6.29	220.62	1.00	22.50	0.33	20.78
Last 5	17:30:22	15.06	6.29	219.17	0.79	22.50	0.32	21.01
Variance 0		-0.04	-0.00	-0.70			0.34	21.67
Variance 1		0.13	-0.00	-0.13			0.04	0.44
Variance 2		-0.23	-0.01	-1.45			-0.01	0.23

**Notes**

Sample collected at 17:30. Light rain 40's.

**Grab Samples**

Product Name: Low-Flow System  
 Date: 2019-01-21 15:55:00

**Project Information:**

Operator Name: Chris Parker  
 Company Name: Atlantic Coast Consulting  
 Project Name: CCR- Plant Wansley Landfill  
 Site Name: Plant Wansley-Landfill  
 Latitude: 0° 0' 0"  
 Longitude: 0° 0' 0"  
 Sonde SN: 465016  
 Turbidity Make/Model: HACH 2100Q

**Pump Information:**

Pump Model/Type: Peristaltic Pump  
 Tubing Type: Poly  
 Tubing Diameter: .17 in  
 Tubing Length: 45 ft  
 Pump placement from TOC: 40 ft

**Well Information:**

Well ID: GWA-28  
 Well diameter: 2 in  
 Well Total Depth: 45.78 ft  
 Screen Length: 10 ft  
 Depth to Water: 24.22 ft

**Pumping Information:**

Final Pumping Rate: 60 mL/min  
 Total System Volume: 0.290854 L  
 Calculated Sample Rate: 300 sec  
 Stabilization Drawdown: 36 in  
 Total Volume Pumped: 5.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0	+/- 0.1	+/- 5%		+/- 10%	+/- 0
Last 5	15:33:08	900.04	13.88	5.93	62.16	26.70	6.81	83.26
Last 5	15:38:08	1200.02	14.23	5.92	61.81	27.00	6.83	82.05
Last 5	15:43:08	1499.98	13.78	5.91	61.32	27.10	7.37	80.02
Last 5	15:48:08	1799.98	14.40	5.94	60.81	27.20	6.99	78.32
Last 5	15:53:08	2099.97	14.35	5.92	61.08	27.30	7.23	78.45
Variance 0			-0.45	-0.00	-0.49		0.54	-2.04
Variance 1			0.62	0.03	-0.51		-0.38	-1.70
Variance 2			-0.02	-0.02	0.27		0.24	0.13

**Notes**

Grab Samples. Sampled at 1600.

Product Name: Low-Flow System

Date: 2019-01-18 10:33:28

**Project Information:**

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type QED Bladder  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 57 ft  
Pump placement from TOC 52 ft

**Well Information:**

Well ID GWA-29  
Well diameter 2 in  
Well Total Depth 57.13 ft  
Screen Length 10 ft  
Depth to Water 40.72 ft

**Pumping Information:**

Final Pumping Rate 200 mL/min  
Total System Volume 0.6444151 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:12:04	16.28	5.88	81.97	3.64	40.80	+/- 0.3	+/- 10
Last 5	10:17:04	16.29	5.86	82.99	3.13	40.80	5.89	97.09
Last 5	10:22:04	16.38	5.85	82.11	3.04	40.80	5.77	99.78
Last 5	10:27:04	16.40	5.85	83.02	2.58	40.80	5.76	100.32
Last 5	10:32:04	16.42	5.86	82.91	3.32	40.80	5.72	99.84
Variance 0		0.09	-0.01	-0.88			5.67	101.20
Variance 1		0.02	0.00	0.91			-0.01	0.54
Variance 2		0.02	0.01	-0.11			-0.03	-0.48

**Notes**

Sample collected at 10:30 on 1-18-19. Overcast 50's. EB-1-1-18-19.

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-01-30 11:25:50

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
Tubing Type: .17 in  
Tubing Diameter: 37 ft  
Pump placement from TOC: 31 ft

**Well Information:**

Well ID: GWC-5  
Well diameter: 2 in  
Well Total Depth: 36.75 ft  
Screen Length: 10 ft  
Depth to Water: 13.83 ft

**Pumping Information:**

Final Pumping Rate: 115 mL/min  
Total System Volume: 0.2551467 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 16.4 in  
Total Volume Pumped: 3.2 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:05:03	300.05	+/- 0	+/- 0.1	+/- 5%		+/- 10%	+/- 0
Last 5	11:10:03	600.02	13.45	6.71	380.04	14.80	5.99	90.30
Last 5	11:15:03	900.01	14.45	6.83	375.11	14.90	5.74	84.64
Last 5	11:20:04	1201.00	15.16	6.89	369.00	15.00	5.55	82.11
Last 5	11:25:04	1501.00	15.26	6.92	371.44	15.10	5.63	80.85
Variance 0			15.48	6.94	371.69	15.20	5.56	80.69
Variance 1			0.71	0.06	-6.12		-0.19	-2.52
Variance 2			0.10	0.03	2.45		0.07	-1.27
			0.22	0.02	0.25		-0.07	-0.16

**Notes**

Sampled at 1128 on 1-30-19. Sunny 30s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-30 12:21:14

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
Tubing Type: .17 in  
Tubing Diameter: 31 ft  
Tubing Length: 25 ft  
Pump placement from TOC

**Well Information:**

Well ID: GWC-6  
Well diameter: 2 in  
Well Total Depth: 30.67 ft  
Screen Length: 10 ft  
Depth to Water: 16.05 ft

**Pumping Information:**

Final Pumping Rate: 250 mL/min  
Total System Volume: 0.2283661 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 3.6 in  
Total Volume Pumped: 8 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:58:35	600.01	+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	12:03:35	900.01	17.04	5.99	169.23	1.90	16.30	0.76	152.07
Last 5	12:08:37	1202.00	16.96	5.98	182.42	1.00	16.30	0.58	137.24
Last 5	12:13:39	1504.00	17.00	5.98	191.46	1.40	16.35	0.41	119.02
Last 5	12:18:39	1804.00	17.13	5.99	194.19	0.80	16.35	0.35	109.40
Variance 0			16.85	5.99	198.39	0.60	16.35	0.31	102.84
Variance 1			0.04	-0.00	9.03			-0.17	-18.22
Variance 2			0.13	0.01	2.74			-0.06	-9.63
			-0.29	0.00	4.20			-0.03	-6.56

**Notes**

Sampled at 1220 on 1-30-19. Sunny 30s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-21 17:17:13

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley - Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 466086  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
Tubing Type: .17 in  
Tubing Diameter: 27 ft  
Tubing Length: 21 ft  
Pump placement from TOC: 21 ft

**Well Information:**

Well ID: GWC-7  
Well diameter: 2 in  
Well Total Depth: 26.2 ft  
Screen Length: 10 ft  
Depth to Water: 7.56 ft

**Pumping Information:**

Final Pumping Rate: 80 mL/min  
Total System Volume: 0.2105124 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 35.3 in  
Total Volume Pumped: 4.96 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	16:48:03	2406.98	+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	16:53:02	2706.98	7.80	6.53	648.99	0.43	10.20	1.23	158.54
Last 5	16:58:02	3006.97	7.85	6.45	651.47	0.57	10.30	1.20	156.01
Last 5	17:03:02	3306.97	7.83	6.40	650.46	0.49	10.40	1.17	153.43
Last 5	17:08:02	3606.96	7.70	6.33	656.13	0.43	10.50	1.15	153.13
Variance 0			7.51	6.33	653.98	0.43	10.50	1.14	153.37
Variance 1			-0.02	-0.05	-1.01			-0.03	-2.59
Variance 2			-0.13	-0.07	5.67			-0.02	-0.30
			-0.19	-0.01	-2.15			-0.01	0.24

**Notes**

Sampled at 1710 on 1-21-19. Sunny, 30s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-22 13:37:26

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley - Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 466086  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
Tubing Type: .17 in  
Tubing Diameter: 21 ft  
Pump placement from TOC: 15 ft

**Well Information:**

Well ID: GWC-8  
Well diameter: 2 in  
Well Total Depth: 20.64 ft  
Screen Length: 10 ft  
Depth to Water: 8.67 ft

**Pumping Information:**

Final Pumping Rate: 200 mL/min  
Total System Volume: 0.1837319 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 0.4 in  
Total Volume Pumped: 8 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:14:25	1199.99	+/- 0	+/- 0.1	+/- 5%		+/- 10%	+/- 0
Last 5	13:19:25	1499.99	7.31	6.21	257.25	8.70	0.37	29.42
Last 5	13:24:25	1799.99	7.03	6.10	257.91	8.70	0.35	33.00
Last 5	13:29:25	2099.98	7.06	6.02	256.99	8.70	0.34	36.10
Last 5	13:34:25	2399.98	6.83	5.98	256.74	8.70	0.27	38.74
Variance 0			6.83	5.95	257.44	8.70	0.27	40.84
Variance 1			0.03	-0.08	-0.92		-0.02	3.10
Variance 2			-0.23	-0.04	-0.25		-0.06	2.64
			0.00	-0.03	0.69		-0.00	2.11

**Notes**

Sampled at 1335 on 1-22-19. Cloudy, 40s.

**Grab Samples**

Product Name: Low-Flow System  
 Date: 2019-01-22 15:27:41

**Project Information:**

Operator Name: Hunter Auld  
 Company Name: ACC  
 Project Name: CCR - Plant Wansley - Landfill  
 Site Name: Plant Wansley - Landfill  
 Latitude: 0° 0' 0"  
 Longitude: 0° 0' 0"  
 Sonde SN: 466086  
 Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
 Tubing Type: .17 in  
 Tubing Diameter: 20 ft  
 Tubing Length: 14.5 ft

Pump placement from TOC

**Well Information:**

Well ID: GWC-9  
 Well diameter: 2 in  
 Well Total Depth: 19.4 ft  
 Screen Length: 10 ft  
 Depth to Water: 6.93 ft

**Pumping Information:**

Final Pumping Rate: 200 mL/min  
 Total System Volume: 0.1792685 L  
 Calculated Sample Rate: 300 sec  
 Stabilization Drawdown: 5.04 in  
 Total Volume Pumped: 17.4 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	15:03:21	3901.96	+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	15:08:21	4201.95	6.65	5.80	205.21	6.20	7.30	0.14	47.03
Last 5	15:13:21	4501.95	6.49	5.80	204.10	6.40	7.35	0.14	47.67
Last 5	15:18:21	4801.95	6.46	5.78	206.41	7.50	7.35	0.14	48.94
Last 5	15:23:21	5101.94	6.49	5.80	207.18	6.00	7.35	0.15	48.17
Variance 0			6.38	5.80	207.90	4.96	7.35	0.16	48.44
Variance 1			-0.03	-0.01	2.30			0.01	1.27
Variance 2			0.02	0.02	0.77			0.01	-0.77
			-0.11	-0.01	0.72			0.01	0.27

**Notes**

Sampled at 1525 on 1-22-19. Cloudy, 40s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-31 14:36:12

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
Tubing Type: .17 in  
Tubing Diameter: 22 ft  
Tubing Length: 22 ft  
Pump placement from TOC: 17 ft

**Well Information:**

Well ID: GWC-10  
Well diameter: 2 in  
Well Total Depth: 21.71 ft  
Screen Length: 10 ft  
Depth to Water: 11.34 ft

**Pumping Information:**

Final Pumping Rate: 110 mL/min  
Total System Volume: 0.1881953 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 24.7 in  
Total Volume Pumped: 3.3 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:12:03	17.27	5.80	249.55	12.20	3.96	+/- 0
Last 5	14:17:03	17.18	5.80	251.51	12.60	3.99	113.21
Last 5	14:22:03	17.25	5.79	251.82	12.90	4.01	108.72
Last 5	14:27:03	17.22	5.78	251.79	13.20	4.02	106.55
Last 5	14:32:04	17.05	5.75	251.94	13.40	4.03	106.60
Variance 0		0.07	-0.00	0.30		0.01	109.73
Variance 1		-0.03	-0.02	-0.02		0.02	-2.17
Variance 2		-0.18	-0.02	0.15		0.01	0.05
							3.13

**Notes**

Sampled at 1435 on 1-31-19. Sunny 50.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-24 16:29:08

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley - **Landfill**  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 466086  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
Tubing Type: .17 in  
Tubing Diameter: 19 ft  
Pump placement from TOC: 14 ft

**Well Information:**

Well ID: GWC-11  
Well diameter: 2 in  
Well Total Depth: 18.8 ft  
Screen Length: 10 ft  
Depth to Water: 4.16 ft

**Pumping Information:**

Final Pumping Rate: 160 mL/min  
Total System Volume: 0.1748051 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 2.9 in  
Total Volume Pumped: 19.7 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	16:07:34	5999.91	+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	16:12:34	6299.92	5.26	6.26	107.55	9.70	4.40	0.18	25.07
Last 5	16:17:34	6599.91	5.28	6.26	108.14	7.10	4.40	0.19	25.39
Last 5	16:22:34	6899.90	5.29	6.26	107.68	6.70	4.40	0.16	25.86
Last 5	16:27:34	7199.89	5.21	6.26	108.16	5.65	4.40	0.20	26.31
Variance 0			5.16	6.25	107.90	4.84	4.40	0.16	27.15
Variance 1			0.02	-0.00	-0.46			-0.03	0.46
Variance 2			-0.08	-0.00	0.48			0.03	0.45
			-0.05	-0.01	-0.26			-0.03	0.85

**Notes**

Sampled at 1630 on 1-24-19. Sunny , 40s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-25 11:04:37

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
Tubing Type: .17 in  
Tubing Diameter: 41 ft  
Tubing Length: 35 ft  
Pump placement from TOC

**Well Information:**

Well ID: GWC-12  
Well diameter: 2 in  
Well Total Depth: 40.65 ft  
Screen Length: 10 ft  
Depth to Water: 26.39 ft

**Pumping Information:**

Final Pumping Rate: 70 mL/min  
Total System Volume: 0.2730004 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 25.3 in  
Total Volume Pumped: 2.3 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:43:28	600.01	+/- 0	+/- 0.1	+/- 5%	+/- 0			+/- 0
Last 5	10:48:28	900.00	13.46	7.50	297.83	4.20	27.60	0.68	107.15
Last 5	10:53:29	1201.00	13.46	7.48	295.14	3.80	27.90	0.60	119.28
Last 5	10:58:30	1501.99	13.76	7.48	294.91	4.00	28.30	0.54	137.67
Last 5	11:03:30	1801.99	13.76	7.48	295.58	3.60	28.40	0.51	155.52
Variance 0			14.16	7.49	295.33	3.97	28.50	0.47	180.32
Variance 1			0.30	0.00	-0.23			-0.06	18.39
Variance 2			0.00	-0.00	0.67			-0.02	17.85
			0.39	0.00	-0.25			-0.04	24.80

**Notes**

Sampled at 1105 on 1-25-19. Sunny, 40.

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-01-22 12:18:13

**Project Information:**

Operator Name Chris Parker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type Poly  
Tubing Diameter .17 in  
Tubing Length 90 ft  
Pump placement from TOC 85 ft

**Well Information:**

Well ID GWC-13  
Well diameter 2 in  
Well Total Depth 90.42 ft  
Screen Length 10 ft  
Depth to Water 5.46 ft

**Pumping Information:**

Final Pumping Rate 230 mL/min  
Total System Volume 0.491708 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 8 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:54:03	15.21	6.46	66.41	3.44	5.60	4.30	90.03
Last 5	11:59:03	15.83	6.56	62.76	2.21	5.60	4.25	81.58
Last 5	12:04:03	15.84	6.59	62.39	1.93	5.60	4.31	78.19
Last 5	12:09:03	16.02	6.59	62.60	1.17	5.60	4.31	76.98
Last 5	12:14:03	16.24	6.61	61.84	1.57	5.60	4.32	76.73
Variance 0		0.00	0.03	-0.36			0.06	-3.39
Variance 1		0.18	0.01	0.20			-0.00	-1.21
Variance 2		0.22	0.01	-0.76			0.01	-0.25

**Notes**

Sampled at 12:20. Cloudy 30s. FB 1 here at 11:10

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-22 14:08:42

Project Information:

Operator Name Chris Parker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 25 ft  
Pump placement from TOC 20 ft

Well Information:

Well ID GWC-14  
Well diameter 2 in  
Well Total Depth 24.55 ft  
Screen Length 10 ft  
Depth to Water 9.00 ft

Pumping Information:

Final Pumping Rate 210 mL/min  
Total System Volume 0.2015856 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:46:22	16.02	5.72	404.01	6.90	9.20	0.26	74.35
Last 5	13:51:22	16.05	5.74	401.86	5.60	9.20	0.26	74.14
Last 5	13:56:22	16.07	5.73	397.35	5.30	9.20	0.26	73.64
Last 5	14:01:22	16.11	5.72	416.92	5.50	9.20	0.26	75.08
Last 5	14:06:21	16.11	5.72	417.00	4.70	9.20	0.26	74.93
Variance 0		0.02	-0.01	-4.51			-0.00	-0.49
Variance 1		0.04	-0.01	19.57			-0.00	1.44
Variance 2		-0.00	-0.00	0.08			-0.00	-0.15

Notes

Sampled at 14:10. Cloudy 40s

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-22 15:22:11

**Project Information:**

Operator Name Chris Parker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 51 ft  
Pump placement from TOC 46 ft

**Well Information:**

Well ID GWC-15  
Well diameter 2 in  
Well Total Depth 51.06 ft  
Screen Length 10 ft  
Depth to Water 5.52 ft

**Pumping Information:**

Final Pumping Rate 230 mL/min  
Total System Volume 0.3176346 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 10 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:51:41	15.93	6.47	153.32	4.52	4.70	3.13	73.26
Last 5	14:56:41	15.97	6.46	152.97	2.04	4.70	3.14	72.46
Last 5	15:01:41	16.15	6.46	152.86	1.59	4.70	3.12	71.67
Last 5	15:06:41	15.62	6.48	150.74	1.16	4.70	3.11	71.37
Last 5	15:11:41	14.96	6.48	149.98	1.35	4.70	3.14	70.99
Variance 0		0.18	0.00	-0.10			-0.01	-0.79
Variance 1		-0.53	0.02	-2.12			-0.01	-0.29
Variance 2		-0.66	-0.00	-0.76			0.03	-0.39

**Notes**

Sampled at 15:15. Cloudy 40s. DUP 2 here.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-25 12:01:37

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Poly  
Tubing Type: .17 in  
Tubing Diameter: 28 ft  
Tubing Length: 28 ft  
Pump placement from TOC: 22 ft

**Well Information:**

Well ID: GWC-16  
Well diameter: 2 in  
Well Total Depth: 27.06 ft  
Screen Length: 10 ft  
Depth to Water: 9.13 ft

**Pumping Information:**

Final Pumping Rate: 200 mL/min  
Total System Volume: 0.2149758 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 0.8 in  
Total Volume Pumped: 6.2 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:39:12	300.05	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	11:44:12	600.02	6.50	95.08	0.85	9.20	3.48	110.48
Last 5	11:49:12	900.02	6.18	87.08	0.90	9.20	3.44	103.82
Last 5	11:54:12	1200.01	6.09	87.30	0.70	9.20	3.43	100.08
Last 5	11:59:12	1500.00	6.06	86.10	0.70	9.20	3.40	96.46
Variance 0		0.29	6.05	86.80	0.90	9.20	3.40	93.70
Variance 1		-0.18	-0.09	0.22			-0.00	-3.74
Variance 2		0.27	-0.03	-1.20			-0.03	-3.62
			-0.01	0.70			0.00	-2.75

**Notes**

Sampled at 1200 on 1-25-19. Sunny 40s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-24 13:00:21

**Project Information:**

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 573204  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type peri  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 60 ft

Pump placement from TOC 48.00 ft

**Well Information:**

Well ID GWC-17  
Well diameter 2 in  
Well Total Depth 53.33 ft  
Screen Length 10 ft  
Depth to Water 19.16 ft

**Pumping Information:**

Final Pumping Rate 150 mL/min  
Total System Volume 0.3578054 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 18 in  
Total Volume Pumped 6.2 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:38:08	1501.01	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	12:43:08	1801.01	6.42	97.64	3.91	20.60	1.10	60.96
Last 5	12:48:09	2102.00	6.40	98.37	3.69	20.60	1.06	59.86
Last 5	12:53:09	2402.00	6.40	99.40	3.43	20.70	1.13	58.81
Last 5	12:58:09	2701.99	6.33	101.85	3.27	20.80	2.21	57.37
Variance 0			6.31	102.54	3.33	20.80	2.46	57.46
Variance 1			-0.00	1.03			0.07	-1.05
Variance 2			-0.07	2.46			1.09	-1.44
			-0.02	0.69			0.25	0.09

**Notes**

Sampled at 1258. 40F overcast.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-28 11:31:39

**Project Information:**

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type peri  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 32 ft  
Pump placement from TOC 24 ft

**Well Information:**

Well ID GWC-18  
Well diameter 2 in  
Well Total Depth 29.77 ft  
Screen Length 10 ft  
Depth to Water 12.32 ft

**Pumping Information:**

Final Pumping Rate 150 mL/min  
Total System Volume 0.2328295 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 5.8 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:10:43	14.85	6.30	90.59	5.63	12.30	0.87	159.84
Last 5	11:15:43	15.02	6.15	90.09	3.84	12.30	0.80	141.23
Last 5	11:20:43	15.16	6.09	89.79	3.37	12.30	0.69	130.58
Last 5	11:25:43	15.23	6.06	89.62	2.75	12.30	0.63	123.68
Last 5	11:30:43	15.32	6.03	89.38	2.15	12.30	0.58	119.02
Variance 0		0.14	-0.06	-0.30			-0.11	-10.65
Variance 1		0.06	-0.04	-0.16			-0.06	-6.91
Variance 2		0.09	-0.02	-0.24			-0.05	-4.66

**Notes**

Collected at 1130. 51F cloudy.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-28 12:26:59

**Project Information:**

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type peri  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 43 ft  
Pump placement from TOC 32 ft

**Well Information:**

Well ID GWC-19  
Well diameter 2 in  
Well Total Depth 37.5 ft  
Screen Length 10 ft  
Depth to Water 6.19 ft

**Pumping Information:**

Final Pumping Rate 180 mL/min  
Total System Volume 0.2819272 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 16 in  
Total Volume Pumped 6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:05:23	14.17	5.99	86.77	8.94	7.30	1.35	103.59
Last 5	12:10:23	14.31	5.99	85.11	7.73	7.40	1.46	102.63
Last 5	12:15:23	14.49	6.02	84.75	5.91	7.50	1.51	100.47
Last 5	12:20:25	14.61	5.98	84.63	4.76	7.60	1.35	98.11
Last 5	12:25:26	14.76	5.96	83.63	4.87	7.60	1.16	96.94
Variance 0		0.18	0.03	-0.37			0.05	-2.17
Variance 1		0.12	-0.04	-0.12			-0.15	-2.36
Variance 2		0.15	-0.01	-1.00			-0.19	-1.17

**Notes**

Sampled at 1225. 56F sunny.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-28 13:16:13

**Project Information:**

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type peri  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 75 ft  
Pump placement from TOC 66 ft

**Well Information:**

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth 71 ft  
Screen Length 10 ft  
Depth to Water 4.31 ft

**Pumping Information:**

Final Pumping Rate 200 mL/min  
Total System Volume 0.4247567 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 6.1 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	12:55:11	15.21	6.34	105.70	1.31	4.40	1.25	104.05
Last 5	13:00:11	15.39	6.33	105.39	0.88	4.40	1.15	103.17
Last 5	13:05:12	15.57	6.32	104.96	0.76	4.40	1.01	102.27
Last 5	13:10:13	15.55	6.31	104.81	0.85	4.50	0.97	102.05
Last 5	13:15:13	15.56	6.31	104.87	1.04	4.50	0.95	101.80
Variance 0		0.18	-0.01	-0.43			-0.14	-0.90
Variance 1		-0.02	-0.01	-0.15			-0.04	-0.21
Variance 2		0.01	-0.00	0.06			-0.02	-0.25

**Notes**

Sampled at 1315. 55F sunny.

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-01-24 11:39:11

**Project Information:**

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 573204  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 45 ft  
Pump placement from TOC 33 ft

**Well Information:**

Well ID GWC-21  
Well diameter 2 in  
Well Total Depth 38.30 ft  
Screen Length 10 ft  
Depth to Water 10.11 ft

**Pumping Information:**

Final Pumping Rate 110 mL/min  
Total System Volume 0.685854 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 25 in  
Total Volume Pumped 6.1 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:15:04	900.02	13.46	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:20:04	1200.02	6.19	57.49	1.98	12.70	1.37	74.13
Last 5	11:25:04	1500.01	6.11	57.66	1.29	13.10	1.11	74.96
Last 5	11:30:04	1800.01	6.05	57.15	1.24	13.20	0.61	73.45
Last 5	11:35:05	2101.00	5.99	56.47	0.66	13.30	0.39	75.25
Variance 0		-0.22	6.01	56.83	0.63	13.40	0.34	76.06
Variance 1		0.18	-0.06	-0.51			-0.51	-1.51
Variance 2		0.09	-0.06	-0.69			-0.22	1.80
			0.02	0.36			-0.05	0.81

**Notes**

Sampled at 1135. 40F overcast.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-24 15:07:11

**Project Information:**

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 573204  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type QED Bladder Pump  
Tubing Type peri  
Tubing Diameter .17 in  
Tubing Length 80 ft

Pump placement from TOC 72.00 ft

**Well Information:**

Well ID GWC-22  
Well diameter 2 in  
Well Total Depth 77.15 ft  
Screen Length 10 ft  
Depth to Water 22.07 ft

**Pumping Information:**

Final Pumping Rate 135 mL/min  
Total System Volume 0.4470738 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 6 in  
Total Volume Pumped 8.75 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:40:57	2700.00	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	14:45:57	13.09	6.62	118.83	1.08	22.70	1.92	44.79
Last 5	14:50:57	13.13	6.65	119.12	1.00	22.70	1.92	43.61
Last 5	15:00:57	12.98	6.67	119.49	0.89	22.70	1.92	42.55
Last 5	15:05:57	13.64	6.67	119.52	0.64	22.70	1.91	41.00
Variance 0	15:05:57	13.48	6.69	119.44	0.61	22.70	1.91	40.25
Variance 1		-0.16	0.02	0.37			0.01	-1.06
Variance 2		0.66	0.01	0.03			-0.02	-1.56
		-0.16	0.01	-0.08			-0.00	-0.75

**Notes**

Sampled at 1505. 38F clear.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-25 11:37:40

Project Information:

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 75 ft  
Pump placement from TOC 63 ft

Well Information:

Well ID GWC-23  
Well diameter 2 in  
Well Total Depth 68.05 ft  
Screen Length 10 ft  
Depth to Water 32.3 ft

Pumping Information:

Final Pumping Rate 140 mL/min  
Total System Volume 0.8197567 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 26 in  
Total Volume Pumped 8.7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:15:58	15.39	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:20:59	15.30	6.03	46.88	3.86	34.50	5.15	94.52
Last 5	11:25:59	15.36	6.00	46.51	5.89	34.50	5.14	95.73
Last 5	11:30:59	15.37	6.02	46.52	5.42	34.50	5.10	94.32
Last 5	11:36:00	15.42	6.01	46.76	5.25	34.50	5.10	95.18
Variance 0		0.06	5.97	46.60	4.54	34.50	5.12	97.12
Variance 1		0.01	0.02	0.01			-0.04	-1.41
Variance 2		0.05	-0.01	0.24			0.00	0.86
			-0.04	-0.16			0.01	1.93

Notes

Sampled at 1135. 36F sunny.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-31 12:32:02

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type QED  
Tubing Type Poly  
Tubing Diameter .17 in  
Tubing Length 52 ft  
Pump placement from TOC 47 ft

Well Information:

Well ID GWC-24  
Well diameter 2 in  
Well Total Depth 51.1 ft  
Screen Length 10 ft  
Depth to Water 36.79 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
Total System Volume 0.717098 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 38.5 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:09:16	12.01	5.37	39.80	14.70	38.50	+/- 10%	+/- 0
Last 5	12:14:18	11.56	5.36	39.46	12.60	38.60	7.11	169.10
Last 5	12:19:18	11.33	5.29	38.40	11.00	38.80	7.15	168.78
Last 5	12:24:18	11.28	5.30	38.06	9.00	38.90	7.18	171.02
Last 5	12:29:18	11.42	5.28	37.39	4.80	40.00	7.18	171.37
Variance 0		-0.23	-0.07	-1.06			0.04	170.18
Variance 1		-0.06	0.01	-0.34			-0.00	2.24
Variance 2		0.15	-0.02	-0.67			-0.00	0.36
							-0.00	-1.19

Notes

Sampled at 1232 on 1-31-19. Sunny 30s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-24 11:18:32

Project Information:

Operator Name Chris Parker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 61 ft  
Pump placement from TOC 57 ft

Well Information:

Well ID GWC-25  
Well diameter 2 in  
Well Total Depth 61.23 ft  
Screen Length 10 ft  
Depth to Water 46.60 ft

Pumping Information:

Final Pumping Rate 60 mL/min  
Total System Volume 0.7472688 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 12 in  
Total Volume Pumped 2.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	10:55:32	8.13	6.04	90.93	2.44	47.10	7.07	115.83
Last 5	11:00:32	8.32	6.02	86.42	2.59	47.40	6.99	104.98
Last 5	11:05:32	8.89	5.99	85.21	2.06	47.60	6.94	100.44
Last 5	11:10:32	8.94	5.99	85.23	1.78	47.70	6.94	97.27
Last 5	11:15:32	8.86	6.00	85.35	2.22	47.70	6.91	95.07
Variance 0		0.57	-0.03	-1.21			-0.05	-4.55
Variance 1		0.05	0.00	0.01			-0.00	-3.16
Variance 2		-0.08	0.01	0.12			-0.03	-2.20

Notes

Sampled at 11:20. Cloudy 30s

Grab Samples

Product Name: Low-Flow System  
 Date: 2019-01-24 12:43:51

**Project Information:**

Operator Name: Chris Parker  
 Company Name: Atlantic Coast Consulting  
 Project Name: CCR- Plant Wansley Landfill  
 Site Name: Plant Wansley-Landfill  
 Latitude: 0° 0' 0"  
 Longitude: 0° 0' 0"  
 Sonde SN: 465016  
 Turbidity Make/Model: HACH 2100Q

**Pump Information:**

Pump Model/Type: Bladder Pump  
 Tubing Type: poly  
 Tubing Diameter: .17 in  
 Tubing Length: 60 ft  
 Pump placement from TOC: 55 ft

**Well Information:**

Well ID: GWC-26  
 Well diameter: 2 in  
 Well Total Depth: 59.43 ft  
 Screen Length: 10 ft  
 Depth to Water: 26.15 ft

**Pumping Information:**

Final Pumping Rate: 80 mL/min  
 Total System Volume: 0.7428054 L  
 Calculated Sample Rate: 300 sec  
 Stabilization Drawdown: 12 in  
 Total Volume Pumped: 3.6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:21:31	10.30	5.81	51.65	26.90	6.57	+/- 0
Last 5	12:26:31	10.73	5.79	51.71	27.00	6.59	92.73
Last 5	12:31:31	10.28	5.80	51.28	27.10	6.52	91.44
Last 5	12:36:31	10.08	5.81	51.19	27.10	6.49	90.64
Last 5	12:41:31	10.08	5.78	51.46	27.20	6.64	89.85
Variance 0		-0.45	0.01	-0.42		-0.06	89.04
Variance 1		-0.21	0.01	-0.09		-0.04	-0.80
Variance 2		0.01	-0.03	0.26		0.16	-0.79

**Notes**

Sampled at 12:45. Cloudy 30s. EB 2 here at 12:30. ( Bladder Pump)

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-24 14:06:41

**Project Information:**

Operator Name: Chris Parker  
Company Name: Atlantic Coast Consulting  
Project Name: CCR- Plant Wansley Landfill  
Site Name: Plant Wansley-Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: HACH 2100Q

**Pump Information:**

Pump Model/Type: Bladder Pump  
Tubing Type: poly  
Tubing Diameter: .17 in  
Tubing Length: 70 ft  
Pump placement from TOC: 65 ft

**Well Information:**

Well ID: GWC-27  
Well diameter: 2 in  
Well Total Depth: 70.83 ft  
Screen Length: 10 ft  
Depth to Water: 38.45 ft

**Pumping Information:**

Final Pumping Rate: 70 mL/min  
Total System Volume: 0.7874396 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 14 in  
Total Volume Pumped: 3.8 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:41:40	11.10	5.39	29.03	5.45	40.20	4.37	100.97
Last 5	13:46:40	11.03	5.41	28.91	4.75	40.40	4.20	98.79
Last 5	13:51:40	9.71	5.44	28.79	2.48	40.50	4.16	97.28
Last 5	13:56:40	10.18	5.40	28.84	1.98	40.60	4.20	95.93
Last 5	14:01:39	10.73	5.39	28.99	1.77	40.60	4.17	94.23
Variance 0		-1.33	0.03	-0.12			-0.05	-1.51
Variance 1		0.48	-0.04	0.06			0.04	-1.35
Variance 2		0.55	-0.01	0.15			-0.03	-1.70

**Notes**

Sampled at 14:10. Cloudy 30s

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-30 15:01:16

Project Information:

Operator Name O. Fuquea  
 Company Name Atlantic Coast consulting  
 Project Name CCR - Plant Wansley Landfill  
 Site Name Plant Wansley Landfill  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 440279  
 Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peri  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 55 ft  
 Pump placement from TOC 44.5 ft

Well Information:

Well ID GWC-30  
 Well diameter 2 in  
 Well Total Depth 49.58 ft  
 Screen Length 10 ft  
 Depth to Water 23.46 ft

Pumping Information:

Final Pumping Rate 140 mL/min  
 Total System Volume 0.3354883 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 22 in  
 Total Volume Pumped 5.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	14:35:03	14.95	6.08	50.09	9.90	25.20	5.67	194.73
Last 5	14:40:03	15.21	6.08	50.12	9.72	25.20	5.61	190.55
Last 5	14:45:03	15.26	6.08	50.06	8.49	25.20	5.52	188.12
Last 5	14:50:05	14.82	6.08	50.05	6.71	25.20	5.52	186.24
Last 5	15:00:05	14.76	6.08	50.22	4.42	25.20	5.46	182.02
Variance 0		0.04	0.01	-0.06			-0.08	-2.42
Variance 1		-0.44	-0.01	-0.02			-0.01	-1.88
Variance 2		-0.06	0.00	0.17			-0.06	-4.22

Notes

Sampled at 1500. 41F sunny.

Grab Samples



Product Name: Low-Flow System

Date: 2019-01-31 13:29:52

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type QED  
Tubing Type Poly  
Tubing Diameter .17 in  
Tubing Length 37 ft  
Pump placement from TOC 34 ft

Well Information:

Well ID GWC-31  
Well diameter 2 in  
Well Total Depth 36.86 ft  
Screen Length 10 ft  
Depth to Water 28.75 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.6501467 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9 in  
Total Volume Pumped 2.5 L

Low-Flow Sampling Stabilization Summary

Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:16:00	15.70	6.00	149.48	9.50	29.30	6.67	140.85
Last 5	13:21:00	15.66	5.99	149.46	10.00	29.40	6.56	136.79
Last 5	13:26:00	15.82	6.03	152.22	9.10	29.50	6.58	131.43
Last 5								
Variance 0		nan	nan	nan	nan	nan	nan	nan
Variance 1		-0.04	-0.01	-0.02	-0.11		-0.11	-4.06
Variance 2		0.16	0.03	2.77	0.02		0.02	-5.36

Notes

Sampled at 1330 on 1-31-19. Sunny 40s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-30 13:47:59

Project Information:

Operator Name O. Fuquea  
 Company Name Atlantic Coast consulting  
 Project Name CCR - Plant Wansley Landfill  
 Site Name Plant Wansley Landfill  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 440279  
 Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peri  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 35 ft  
 Pump placement from TOC 26 ft

Well Information:

Well ID GWC-32  
 Well diameter 2 in  
 Well Total Depth 31.05 ft  
 Screen Length 10 ft  
 Depth to Water 24.36 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
 Total System Volume 0.2462198 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 64 in  
 Total Volume Pumped 12.8 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5 13:25:10	6304.92	16.60	6.12	102.53	1.05	29.50	5.02	475.91
Last 5 13:30:10	6604.92	16.70	6.12	95.29	0.61	29.60	4.83	483.80
Last 5 13:35:10	6904.91	16.06	6.13	102.28	0.59	29.70	4.61	477.94
Last 5 13:40:10	7204.90	15.84	6.13	100.17	0.54	29.70	4.44	432.61
Last 5 13:45:10	7504.89	16.07	6.12	100.20	0.52	29.70	4.36	374.54
Variance 0		-0.64	0.01	6.99			-0.22	-5.86
Variance 1		-0.21	0.00	-2.12			-0.18	-45.33
Variance 2		0.23	-0.00	0.03			-0.07	-58.07

Notes

Sampled at 1345. 42F sunny.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-30 11:16:38

**Project Information:**

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

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

Pump placement from TOC 18 ft

**Well Information:**

Well ID GWC-33  
Well diameter 2 in  
Well Total Depth 23.99 ft  
Screen Length 10 ft  
Depth to Water 13.31 ft

**Pumping Information:**

Final Pumping Rate 110 mL/min  
Total System Volume 0.2105124 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 4.2 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	10:55:17	14.72	6.69	155.95	0.93	13.40	7.05	136.91
Last 5	11:00:20	14.41	6.55	151.31	0.91	13.40	6.97	134.70
Last 5	11:05:20	14.49	6.45	155.26	0.90	13.40	6.26	132.60
Last 5	11:10:20	14.96	6.43	158.15	0.80	13.50	6.88	131.18
Last 5	11:15:20	15.48	6.41	155.70	0.68	13.50	6.85	131.25
Variance 0		0.08	-0.09	3.95			-0.72	-2.10
Variance 1		0.47	-0.02	2.89			0.63	-1.42
Variance 2		0.52	-0.02	-2.44			-0.03	0.07

**Notes**

Sampled at 1115. 39F sunny.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-28 14:19:47

**Project Information:**

Operator Name O. Fuquea  
Company Name Atlantic Coast consulting  
Project Name CCR - Plant Wansley Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type peri  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 55 ft  
Pump placement from TOC 45.8 ft

**Well Information:**

Well ID GWC-34  
Well diameter 2 in  
Well Total Depth 50.8 ft  
Screen Length 10 ft  
Depth to Water 4.27 ft

**Pumping Information:**

Final Pumping Rate 155 mL/min  
Total System Volume 0.3354883 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 9.25 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	13:55:25	16.69	6.27	49.11	1.69	4.40	2.14	132.55
Last 5	14:00:25	16.96	6.22	48.45	1.66	4.40	1.84	165.34
Last 5	14:05:25	17.49	6.16	47.72	1.31	4.40	1.42	210.37
Last 5	14:10:25	17.59	6.12	47.60	1.00	4.40	1.35	272.22
Last 5	14:15:26	17.54	6.08	47.36	0.97	4.40	1.26	369.77
Variance 0		0.53	-0.06	-0.72			-0.42	45.03
Variance 1		0.10	-0.04	-0.13			-0.07	61.85
Variance 2		-0.05	-0.04	-0.24			-0.09	97.55

**Notes**

Sampled at 1415. 59F sunny.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-21 16:55:36

**Project Information:**

Operator Name Chris Parker  
Company Name Atlantic Coast Consulting  
Project Name CCR- Plant Wansley Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 40 ft  
Pump placement from TOC 35 ft

**Well Information:**

Well ID GWC-35  
Well diameter 2 in  
Well Total Depth 40.78 ft  
Screen Length 10 ft  
Depth to Water 7.83 ft

**Pumping Information:**

Final Pumping Rate 200 mL/min  
Total System Volume 0.2685369 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	16:32:40	15.84	5.55	50.99	0.73	7.90	2.76	88.01
Last 5	16:37:40	16.09	5.51	50.27	0.86	7.90	2.82	86.63
Last 5	16:42:40	16.06	5.53	49.74	0.73	7.90	2.82	85.42
Last 5	16:47:40	16.24	5.53	49.62	0.80	7.90	2.79	84.76
Last 5	16:52:40	16.10	5.53	49.03	0.74	7.90	2.86	84.49
Variance 0		-0.03	0.02	-0.53			0.00	-1.21
Variance 1		0.18	-0.00	-0.13			-0.03	-0.66
Variance 2		-0.14	0.00	-0.59			0.07	-0.27

**Notes**

Sampled at 16:55. Sunny 60s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-02-01 13:35:58

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length  
Pump placement from TOC ft

**Well Information:**

Well ID Effluent Unit 1  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 180 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:33:58	180.06	+/- 0.5	+/- 0.1	+/- 3%	+/- 10	--	+/- 0.3	+/- 10
Last 5			34.81	6.34	15680.62	>1000		5.33	288.36
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1335 on 2-1-19. Sunny 60.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-01 13:43:12

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length  
Pump placement from TOC ft

**Well Information:**

Well ID Effluent Unit 2  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 180 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:42:41	180.03	+/- 0.5	+/- 0.1	+/- 3%	--	+/- 0.3	+/- 10
Last 5			38.41	5.88	16359.41		3.69	338.72
Last 5					>1000.00			
Last 5								
Variance 0			nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1345 on 2-1-19. Sunny 60.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-28 14:07:51

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model Hach 2100 Q

**Pump Information:**

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length

Pump placement from TOC ft

**Well Information:**

Well ID SWA-1  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:07:16	300.01	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5		14.96	6.69	39.76	21.50		10.45	27.21
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1408 on 1-28-19. Sunny 50s.

Grab Samples



Product Name: Low-Flow System

Date: 2019-01-28 12:33:34

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length ft  
Pump placement from TOC ft

Well Information:

Well ID SWA-6  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:32:58	15.07	+/- 0.1	+/- 5% 58.74	--	+/- 10% 10.91	+/- 0 103.42
Last 5							
Last 5							
Last 5							
Last 5							
Variance 0		nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00		0.00	0.00

Notes

Sampled at 1235 on 1-28-19. Sunny 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-28 13:42:07

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: ACC  
Tubing Type: CCR - Plant Wansley - Landfill  
Tubing Diameter: Plant Wansley Landfill  
Tubing Length: 0° 0' 0"  
Pump placement from TOC: 0° 0' 0"  
ft

**Well Information:**

Well ID: SWC-2  
Well diameter: in  
Well Total Depth: ft  
Screen Length: ft  
Depth to Water: ft

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:41:33	300.02	+/- 0.1	+/- 5%	--	+/- 10%	+/- 0
Last 5		12.62	6.21	281.56		2.87	44.92
Last 5				8.44			
Last 5							
Last 5							
Variance 0		nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1343 on 1-28-19. Sunny 50s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-01-28 12:56:07

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: in  
Tubing Type: ft  
Tubing Diameter: in  
Tubing Length: ft  
Pump placement from TOC: ft

**Well Information:**

Well ID: SWC-3  
Well diameter: in  
Well Total Depth: ft  
Screen Length: ft  
Depth to Water: ft

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:55:00	300.03	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			16.55	6.03	361.93	3.24		5.15	54.58
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1256 on 1-28-19. Sunny 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-28 13:20:06

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: ACC  
Tubing Type: CCR - Plant Wansley - Landfill  
Tubing Diameter: Plant Wansley Landfill  
Tubing Length: 0° 0' 0"  
Pump placement from TOC: 0° 0' 0"  
ft

**Well Information:**

Well ID: SWC-4  
Well diameter: in  
Well Total Depth: ft  
Screen Length: ft  
Depth to Water: ft

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:18:56	12.62	+/- 0.1	+/- 5% 171.26	--	+/- 10% 6.27	+/- 0 40.92
Last 5							
Last 5							
Last 5							
Last 5							
Variance 0		nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1320 on 1-28-19. Sunny 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-28 12:10:51

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: ACC  
Tubing Type: CCR - Plant Wansley - Landfill  
Tubing Diameter: Plant Wansley Landfill  
Tubing Length: 0° 0' 0"  
Pump placement from TOC: 0° 0' 0"  
ft

**Well Information:**

Well ID: SWC-5  
Well diameter: in  
Well Total Depth: ft  
Screen Length: ft  
Depth to Water: ft

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:10:09	15.42	+/- 0.1	+/- 5%	--	+/- 10%	+/- 0
Last 5	300.04	15.42	6.63	226.35		9.52	122.12
Last 5							
Last 5							
Variance 0		nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1200 on 1-28-19. Sunny 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-28 14:41:55

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 465016  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: in  
Tubing Type: ft  
Tubing Diameter: in  
Tubing Length: ft  
Pump placement from TOC: ft

**Well Information:**

Well ID: SWC-7  
Well diameter: in  
Well Total Depth: ft  
Screen Length: ft  
Depth to Water: ft

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 180 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	14:41:19	13.53	6.75	67.22	15.10	--	10.13	41.69
Last 5								
Last 5								
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1445 on 1-28-19. Sunny 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-01-28 11:44:18

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model Hach 2100 Q

**Pump Information:**

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length  
Pump placement from TOC ft

**Well Information:**

Well ID SWC-8  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:43:44	300.05	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5		11.24	6.19	224.17	9.7		9.02	184.80
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1135 on 1-28-19. Sunny 50s.

Grab Samples

## ANALYTICAL REPORT

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

Laboratory Job ID: 180-91948-1  
Laboratory Sample Delivery Group: App III  
Client Project/Site: CCR - Plant Wansley Landfill

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

Attn: Joju Abraham



Authorized for release by:  
7/11/2019 1:35:51 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

Job ID: 180-91948-1  
SDG: App III

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**Job ID: 180-91948-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-91948-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/27/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 1.7° C.

**GC Semi VOA**

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

**Metals**

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 180-284336 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-284336 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or 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

Job ID: 180-91948-1  
SDG: App III

## 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.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance 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.
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

Job ID: 180-91948-1  
 SDG: App III

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-20
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State		PH-0688	09-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-20
Florida	NELAP		E871008	06-30-20
Illinois	NELAP	5	200005	06-30-20
Illinois	NELAP		004375	06-30-20
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-20
Minnesota	NELAP Secondary AB	5	042-999-482	12-31-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-20
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
Rhode Island	State		LAO00362	12-30-19
Rhode Island	State Program	1	LAO00362	12-30-19
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P-Soil-01	06-26-22
Utah	NELAP	8	PA001462015-4	05-31-20
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19

# Sample Summary

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

Job ID: 180-91948-1  
SDG: App III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-91948-1	GWA-1	Ground Water	06/24/19 16:30	06/27/19 09:00	
180-91948-2	GWA-2	Ground Water	06/24/19 14:55	06/27/19 09:00	
180-91948-3	GWA-3	Ground Water	06/25/19 10:00	06/27/19 09:00	
180-91948-4	GWA-29	Ground Water	06/25/19 11:45	06/27/19 09:00	
180-91948-5	EB-1-6-25-19	Water	06/25/19 12:00	06/27/19 09:00	
180-91948-6	GWC-25	Ground Water	06/25/19 13:00	06/27/19 09:00	
180-91948-7	GWC-7	Ground Water	06/25/19 11:15	06/27/19 09:00	
180-91948-8	GWC-8	Ground Water	06/25/19 17:10	06/27/19 09:00	
180-91948-9	GWC-26	Ground Water	06/25/19 14:20	06/27/19 09:00	
180-91948-10	GWC-9	Ground Water	06/25/19 14:00	06/27/19 09:00	
180-91948-11	FB-2-6-25-19	Water	06/25/19 15:35	06/27/19 09:00	
180-91948-12	GWA-4	Ground Water	06/24/19 17:10	06/27/19 09:00	
180-91948-13	GWC-13	Ground Water	06/25/19 10:55	06/27/19 09:00	
180-91948-14	GWC-14	Ground Water	06/25/19 12:10	06/27/19 09:00	
180-91948-15	GWC-15	Ground Water	06/25/19 13:20	06/27/19 09:00	
180-91948-16	GWC-16	Ground Water	06/25/19 14:25	06/27/19 09:00	
180-91948-17	GWC-17	Ground Water	06/25/19 16:40	06/27/19 09:00	
180-91948-18	GWA-28	Ground Water	06/25/19 11:00	06/27/19 09:00	
180-91948-19	GWC-20	Ground Water	06/25/19 16:48	06/27/19 09:00	
180-91948-20	GWC-21	Ground Water	06/25/19 14:05	06/27/19 09:00	
180-91948-21	DUP-1	Water	06/25/19 00:00	06/27/19 09:00	
180-91948-22	DUP-2	Water	06/25/19 00:00	06/27/19 09:00	
180-91948-23	GWC-22	Ground Water	06/25/19 12:52	06/27/19 09:00	
180-91948-24	FB-1-6-25-19	Water	06/25/19 11:40	06/27/19 09:00	
180-91948-25	EB-2-6-25-19	Water	06/25/19 15:40	06/27/19 09:00	

# Method Summary

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

Job ID: 180-91948-1  
SDG: App III

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

### Protocol References:

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: 180-91948-1  
SDG: App III

**Client Sample ID: GWA-1**  
**Date Collected: 06/24/19 16:30**  
**Date Received: 06/27/19 09:00**

**Lab Sample ID: 180-91948-1**  
**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			283631	07/02/19 12:22	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 18:44	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWA-2**  
**Date Collected: 06/24/19 14:55**  
**Date Received: 06/27/19 09:00**

**Lab Sample ID: 180-91948-2**  
**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			283631	07/02/19 12:37	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 18:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWA-3**  
**Date Collected: 06/25/19 10:00**  
**Date Received: 06/27/19 09:00**

**Lab Sample ID: 180-91948-3**  
**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			283631	07/02/19 13:54	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWA-29**  
**Date Collected: 06/25/19 11:45**  
**Date Received: 06/27/19 09:00**

**Lab Sample ID: 180-91948-4**  
**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			283631	07/02/19 14:09	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-91948-1  
SDG: App III

**Client Sample ID: EB-1-6-25-19**

**Lab Sample ID: 180-91948-5**

**Date Collected: 06/25/19 12:00**

**Matrix: Water**

**Date Received: 06/27/19 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	300.0		1			283631	07/02/19 14:24	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:08	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-25**

**Lab Sample ID: 180-91948-6**

**Date Collected: 06/25/19 13:00**

**Matrix: Ground Water**

**Date Received: 06/27/19 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	300.0		1			283631	07/02/19 14:40	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:12	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-7**

**Lab Sample ID: 180-91948-7**

**Date Collected: 06/25/19 11:15**

**Matrix: Ground Water**

**Date Received: 06/27/19 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	300.0		1			283631	07/02/19 14:55	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-8**

**Lab Sample ID: 180-91948-8**

**Date Collected: 06/25/19 17:10**

**Matrix: Ground Water**

**Date Received: 06/27/19 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	300.0		1			283631	07/02/19 15:26	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

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

Job ID: 180-91948-1  
 SDG: App III

**Client Sample ID: GWC-26**

**Lab Sample ID: 180-91948-9**

Date Collected: 06/25/19 14:20

Matrix: Ground Water

Date Received: 06/27/19 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	300.0		1			283780	07/03/19 07:41	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-91948-10**

Date Collected: 06/25/19 14:00

Matrix: Ground Water

Date Received: 06/27/19 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	300.0		1			283780	07/03/19 09:01	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-2-6-25-19**

**Lab Sample ID: 180-91948-11**

Date Collected: 06/25/19 15:35

Matrix: Water

Date Received: 06/27/19 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	300.0		1			283780	07/03/19 06:21	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWA-4**

**Lab Sample ID: 180-91948-12**

Date Collected: 06/24/19 17:10

Matrix: Ground Water

Date Received: 06/27/19 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	300.0		1			283780	07/03/19 09:17	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:39	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283310	06/28/19 07:46	TAM	TAL PIT
Instrument ID: NOEQUIP										

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# Lab Chronicle

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

Job ID: 180-91948-1  
SDG: App III

## Client Sample ID: GWC-13

Date Collected: 06/25/19 10:55

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-13

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			283622	07/02/19 17:29	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:42	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-14

Date Collected: 06/25/19 12:10

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-14

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	300.0		1			283622	07/02/19 17:45	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:46	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-15

Date Collected: 06/25/19 13:20

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-15

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	300.0		1			283622	07/02/19 18:01	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:49	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-16

Date Collected: 06/25/19 14:25

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-16

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			283622	07/02/19 18:48	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:52	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

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# Lab Chronicle

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

Job ID: 180-91948-1  
SDG: App III

## Client Sample ID: GWC-17

Date Collected: 06/25/19 16:40

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-17

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			283622	07/02/19 19:04	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 20:03	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWA-28

Date Collected: 06/25/19 11:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-18

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			283622	07/02/19 19:20	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 20:06	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-20

Date Collected: 06/25/19 16:48

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-19

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			283622	07/02/19 19:36	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 20:09	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-21

Date Collected: 06/25/19 14:05

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-20

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			283780	07/03/19 06:37	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 20:13	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

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# Lab Chronicle

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

Job ID: 180-91948-1  
SDG: App III

## Client Sample ID: DUP-1

Date Collected: 06/25/19 00:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-21

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			283780	07/03/19 06:53	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:23	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: DUP-2

Date Collected: 06/25/19 00:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-22

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			283780	07/03/19 07:09	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:26	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-22

Date Collected: 06/25/19 12:52

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-23

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			283780	07/03/19 07:25	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:30	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: FB-1-6-25-19

Date Collected: 06/25/19 11:40

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-24

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			283622	07/02/19 16:10	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-91948-1  
 SDG: App III

**Client Sample ID: EB-2-6-25-19**

**Lab Sample ID: 180-91948-25**

**Date Collected: 06/25/19 15:40**

**Matrix: Water**

**Date Received: 06/27/19 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	300.0		1			283622	07/02/19 17:13	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:43	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283316	06/28/19 08:36	TAM	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

MJH = Matthew Hartman

RSK = Robert Kurtz

TAM = Tessa Mastalski

# Client Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

**Client Sample ID: GWA-1**  
 Date Collected: 06/24/19 16:30  
 Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-1**  
 Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			07/02/19 12:22	1
Fluoride	0.031	J	0.20	0.026	mg/L			07/02/19 12:22	1
Sulfate	<0.38		1.0	0.38	mg/L			07/02/19 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.034	J	0.080	0.030	mg/L		06/28/19 06:53	07/09/19 18:44	1
Calcium	0.76		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 18:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	21		10	10	mg/L			06/28/19 07:46	1

**Client Sample ID: GWA-2**  
 Date Collected: 06/24/19 14:55  
 Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-2**  
 Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.1		1.0	0.71	mg/L			07/02/19 12:37	1
Fluoride	0.032	J	0.20	0.026	mg/L			07/02/19 12:37	1
Sulfate	0.91	J	1.0	0.38	mg/L			07/02/19 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 18:58	1
Calcium	5.0		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 18:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	72		10	10	mg/L			06/28/19 07:46	1

**Client Sample ID: GWA-3**  
 Date Collected: 06/25/19 10:00  
 Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-3**  
 Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/02/19 13:54	1
Fluoride	0.030	J	0.20	0.026	mg/L			07/02/19 13:54	1
Sulfate	<0.38		1.0	0.38	mg/L			07/02/19 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:01	1
Calcium	10		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			06/28/19 07:46	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-91948-1  
SDG: App III

## Client Sample ID: GWA-29

Date Collected: 06/25/19 11:45

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-4

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		1.0	0.71	mg/L			07/02/19 14:09	1
Fluoride	0.034	J	0.20	0.026	mg/L			07/02/19 14:09	1
Sulfate	26		1.0	0.38	mg/L			07/02/19 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:05	1
Calcium	4.8		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:05	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	97		10	10	mg/L			06/28/19 07:46	1

## Client Sample ID: EB-1-6-25-19

Date Collected: 06/25/19 12:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-5

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			07/02/19 14:24	1
Fluoride	2.1		0.20	0.026	mg/L			07/02/19 14:24	1
Sulfate	9.4		1.0	0.38	mg/L			07/02/19 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:08	1
Calcium	<0.12		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:08	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/28/19 07:46	1

## Client Sample ID: GWC-25

Date Collected: 06/25/19 13:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-6

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.71	mg/L			07/02/19 14:40	1
Fluoride	0.033	J	0.20	0.026	mg/L			07/02/19 14:40	1
Sulfate	1.6		1.0	0.38	mg/L			07/02/19 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:12	1
Calcium	3.5		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:12	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	58		10	10	mg/L			06/28/19 07:46	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

## Client Sample ID: GWC-7

Date Collected: 06/25/19 11:15

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-7

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		1.0	0.71	mg/L			07/02/19 14:55	1
Fluoride	0.21		0.20	0.026	mg/L			07/02/19 14:55	1
Sulfate	59		1.0	0.38	mg/L			07/02/19 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:22	1
Calcium	50		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:22	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	400		10	10	mg/L			06/28/19 07:46	1

## Client Sample ID: GWC-8

Date Collected: 06/25/19 17:10

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-8

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		1.0	0.71	mg/L			07/02/19 15:26	1
Fluoride	0.055	J	0.20	0.026	mg/L			07/02/19 15:26	1
Sulfate	14		1.0	0.38	mg/L			07/02/19 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:25	1
Calcium	29		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:25	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			06/28/19 07:46	1

## Client Sample ID: GWC-26

Date Collected: 06/25/19 14:20

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-9

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	0.71	mg/L			07/03/19 07:41	1
Fluoride	0.047	J	0.20	0.026	mg/L			07/03/19 07:41	1
Sulfate	0.78	J	1.0	0.38	mg/L			07/03/19 07:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:29	1
Calcium	1.8		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:29	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	49		10	10	mg/L			06/28/19 07:46	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

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

Job ID: 180-91948-1  
SDG: App III

## Client Sample ID: GWC-9

Date Collected: 06/25/19 14:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-10

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.71	mg/L			07/03/19 09:01	1
Fluoride	0.066	J	0.20	0.026	mg/L			07/03/19 09:01	1
Sulfate	11		1.0	0.38	mg/L			07/03/19 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.068	J	0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:32	1
Calcium	14		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:32	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			06/28/19 07:46	1

## Client Sample ID: FB-2-6-25-19

Date Collected: 06/25/19 15:35

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-11

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/03/19 06:21	1
Fluoride	0.040	J	0.20	0.026	mg/L			07/03/19 06:21	1
Sulfate	<0.38		1.0	0.38	mg/L			07/03/19 06:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:35	1
Calcium	<0.12		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:35	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: GWA-4

Date Collected: 06/24/19 17:10

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-12

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			07/03/19 09:17	1
Fluoride	0.080	J	0.20	0.026	mg/L			07/03/19 09:17	1
Sulfate	10		1.0	0.38	mg/L			07/03/19 09:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:39	1
Calcium	27		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:39	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			06/28/19 07:46	1

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# Client Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

## Client Sample ID: GWC-13

Date Collected: 06/25/19 10:55

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-13

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			07/02/19 17:29	1
Fluoride	0.084	J	0.20	0.026	mg/L			07/02/19 17:29	1
Sulfate	3.0		1.0	0.38	mg/L			07/02/19 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:42	1
Calcium	4.3		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:42	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: GWC-14

Date Collected: 06/25/19 12:10

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-14

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82		1.0	0.71	mg/L			07/02/19 17:45	1
Fluoride	0.054	J	0.20	0.026	mg/L			07/02/19 17:45	1
Sulfate	13		1.0	0.38	mg/L			07/02/19 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.71		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:46	1
Calcium	26		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:46	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: GWC-15

Date Collected: 06/25/19 13:20

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-15

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.8		1.0	0.71	mg/L			07/02/19 18:01	1
Fluoride	0.068	J	0.20	0.026	mg/L			07/02/19 18:01	1
Sulfate	2.0		1.0	0.38	mg/L			07/02/19 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.066	J	0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:49	1
Calcium	9.8		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:49	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	99		10	10	mg/L			06/28/19 08:36	1

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# Client Sample Results

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

Job ID: 180-91948-1  
SDG: App III

## Client Sample ID: GWC-16

Date Collected: 06/25/19 14:25

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-16

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			07/02/19 18:48	1
Fluoride	0.052	J	0.20	0.026	mg/L			07/02/19 18:48	1
Sulfate	0.84	J	1.0	0.38	mg/L			07/02/19 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 19:52	1
Calcium	7.0		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 19:52	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	91		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: GWC-17

Date Collected: 06/25/19 16:40

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-17

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			07/02/19 19:04	1
Fluoride	0.051	J	0.20	0.026	mg/L			07/02/19 19:04	1
Sulfate	1.1		1.0	0.38	mg/L			07/02/19 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 20:03	1
Calcium	8.4		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 20:03	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: GWA-28

Date Collected: 06/25/19 11:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-18

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			07/02/19 19:20	1
Fluoride	1.9		0.20	0.026	mg/L			07/02/19 19:20	1
Sulfate	2.2		1.0	0.38	mg/L			07/02/19 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 20:06	1
Calcium	3.0		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 20:06	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			06/28/19 08:36	1

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# Client Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

## Client Sample ID: GWC-20

Date Collected: 06/25/19 16:48

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-19

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			07/02/19 19:36	1
Fluoride	0.049	J	0.20	0.026	mg/L			07/02/19 19:36	1
Sulfate	0.99	J	1.0	0.38	mg/L			07/02/19 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 20:09	1
Calcium	9.0		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 20:09	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: GWC-21

Date Collected: 06/25/19 14:05

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-20

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.71	mg/L			07/03/19 06:37	1
Fluoride	0.032	J	0.20	0.026	mg/L			07/03/19 06:37	1
Sulfate	<0.38		1.0	0.38	mg/L			07/03/19 06:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:53	07/09/19 20:13	1
Calcium	5.0		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 20:13	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	63		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: DUP-1

Date Collected: 06/25/19 00:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-21

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			07/03/19 06:53	1
Fluoride	0.080	J	0.20	0.026	mg/L			07/03/19 06:53	1
Sulfate	2.6		1.0	0.38	mg/L			07/03/19 06:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.037	J	0.080	0.030	mg/L		06/28/19 06:54	07/09/19 17:23	1
Calcium	4.3		0.50	0.12	mg/L		06/28/19 06:54	07/09/19 17:23	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	53		10	10	mg/L			06/28/19 08:36	1

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# Client Sample Results

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

Job ID: 180-91948-1  
SDG: App III

## Client Sample ID: DUP-2

Date Collected: 06/25/19 00:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-22

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.71	mg/L			07/03/19 07:09	1
Fluoride	0.036	J	0.20	0.026	mg/L			07/03/19 07:09	1
Sulfate	1.2		1.0	0.38	mg/L			07/03/19 07:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:54	07/09/19 17:26	1
Calcium	9.1		0.50	0.12	mg/L		06/28/19 06:54	07/09/19 17:26	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: GWC-22

Date Collected: 06/25/19 12:52

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-23

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			07/03/19 07:25	1
Fluoride	0.052	J	0.20	0.026	mg/L			07/03/19 07:25	1
Sulfate	0.76	J	1.0	0.38	mg/L			07/03/19 07:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:54	07/09/19 17:30	1
Calcium	12		0.50	0.12	mg/L		06/28/19 06:54	07/09/19 17:30	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			06/28/19 08:36	1

## Client Sample ID: FB-1-6-25-19

Date Collected: 06/25/19 11:40

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-24

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/02/19 16:10	1
Fluoride	0.038	J	0.20	0.026	mg/L			07/02/19 16:10	1
Sulfate	<0.38		1.0	0.38	mg/L			07/02/19 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:54	07/09/19 17:33	1
Calcium	<0.12		0.50	0.12	mg/L		06/28/19 06:54	07/09/19 17:33	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/28/19 08:36	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

**Client Sample ID: EB-2-6-25-19**

**Lab Sample ID: 180-91948-25**

Date Collected: 06/25/19 15:40

Matrix: Water

Date Received: 06/27/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/02/19 17:13	1
<b>Fluoride</b>	<b>0.040</b>	<b>J</b>	0.20	0.026	mg/L			07/02/19 17:13	1
Sulfate	<0.38		1.0	0.38	mg/L			07/02/19 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		06/28/19 06:54	07/09/19 17:43	1
Calcium	<0.12		0.50	0.12	mg/L		06/28/19 06:54	07/09/19 17:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/28/19 08:36	1

# QC Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-283622/38**  
**Matrix: Water**  
**Analysis Batch: 283622**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/02/19 15:54	1
Fluoride	<0.026		0.20	0.026	mg/L			07/02/19 15:54	1
Sulfate	<0.38		1.0	0.38	mg/L			07/02/19 15:54	1

**Lab Sample ID: LCS 180-283622/37**  
**Matrix: Water**  
**Analysis Batch: 283622**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.1		mg/L		100	90 - 110
Fluoride	1.25	1.26		mg/L		101	90 - 110
Sulfate	25.0	25.1		mg/L		100	90 - 110

**Lab Sample ID: 180-91948-15 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 283622**

**Client Sample ID: GWC-15**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.8		25.0	30.7		mg/L		99	80 - 120
Fluoride	0.068	J	1.25	1.31		mg/L		99	80 - 120
Sulfate	2.0		25.0	26.8		mg/L		99	80 - 120

**Lab Sample ID: 180-91948-15 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 283622**

**Client Sample ID: GWC-15**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.8		25.0	30.4		mg/L		98	80 - 120	1	20
Fluoride	0.068	J	1.25	1.30		mg/L		99	80 - 120	1	20
Sulfate	2.0		25.0	26.5		mg/L		98	80 - 120	1	20

**Lab Sample ID: MB 180-283631/18**  
**Matrix: Water**  
**Analysis Batch: 283631**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/02/19 10:41	1
Fluoride	<0.026		0.20	0.026	mg/L			07/02/19 10:41	1
Sulfate	<0.38		1.0	0.38	mg/L			07/02/19 10:41	1

**Lab Sample ID: LCS 180-283631/17**  
**Matrix: Water**  
**Analysis Batch: 283631**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.5		mg/L		98	90 - 110
Fluoride	1.25	1.20		mg/L		96	90 - 110
Sulfate	25.0	24.1		mg/L		96	90 - 110

# QC Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-91948-2 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 283631**

**Client Sample ID: GWA-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.1		25.0	32.3		mg/L		105	80 - 120
Fluoride	0.032	J	1.25	1.30		mg/L		101	80 - 120
Sulfate	0.91	J	25.0	26.6		mg/L		103	80 - 120

**Lab Sample ID: 180-91948-2 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 283631**

**Client Sample ID: GWA-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.1		25.0	32.4		mg/L		105	80 - 120	0	20
Fluoride	0.032	J	1.25	1.30		mg/L		101	80 - 120	0	20
Sulfate	0.91	J	25.0	26.4		mg/L		102	80 - 120	1	20

**Lab Sample ID: MB 180-283780/6**  
**Matrix: Water**  
**Analysis Batch: 283780**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/03/19 05:31	1
Fluoride	<0.026		0.20	0.026	mg/L			07/03/19 05:31	1
Sulfate	<0.38		1.0	0.38	mg/L			07/03/19 05:31	1

**Lab Sample ID: LCS 180-283780/5**  
**Matrix: Water**  
**Analysis Batch: 283780**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.6		mg/L		98	90 - 110
Fluoride	1.25	1.21		mg/L		97	90 - 110
Sulfate	25.0	24.5		mg/L		98	90 - 110

**Lab Sample ID: 180-91948-9 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 283780**

**Client Sample ID: GWC-26**  
**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	28.2		mg/L		101	80 - 120
Fluoride	0.047	J	1.25	1.25		mg/L		97	80 - 120
Sulfate	0.78	J	25.0	25.3		mg/L		98	80 - 120

**Lab Sample ID: 180-91948-9 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 283780**

**Client Sample ID: GWC-26**  
**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	27.1		mg/L		96	80 - 120	4	20
Fluoride	0.047	J	1.25	1.23		mg/L		95	80 - 120	2	20
Sulfate	0.78	J	25.0	24.5		mg/L		95	80 - 120	3	20



# QC Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-283300/1-A**  
**Matrix: Water**  
**Analysis Batch: 284336**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		06/28/19 06:53	07/09/19 18:24	1
Calcium	<0.12		0.50	0.12	mg/L		06/28/19 06:53	07/09/19 18:24	1

**Lab Sample ID: LCS 180-283300/2-A**  
**Matrix: Water**  
**Analysis Batch: 284336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.33		mg/L		106	80 - 120
Calcium	25.0	25.6		mg/L		102	80 - 120

**Lab Sample ID: 180-91948-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284336**

**Client Sample ID: GWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.034	J	1.25	1.31		mg/L		102	75 - 125
Calcium	0.76		25.0	26.2		mg/L		102	75 - 125

**Lab Sample ID: 180-91948-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 284336**

**Client Sample ID: GWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.034	J	1.25	1.30		mg/L		101	75 - 125	1	20
Calcium	0.76		25.0	26.3		mg/L		102	75 - 125	0	20

**Lab Sample ID: MB 180-283301/1-A**  
**Matrix: Water**  
**Analysis Batch: 284336**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283301**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		06/28/19 06:54	07/09/19 16:42	1
Calcium	<0.12		0.50	0.12	mg/L		06/28/19 06:54	07/09/19 16:42	1

**Lab Sample ID: LCS 180-283301/2-A**  
**Matrix: Water**  
**Analysis Batch: 284336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.18		mg/L		95	80 - 120
Calcium	25.0	25.8		mg/L		103	80 - 120

# QC Sample Results

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

Job ID: 180-91948-1  
 SDG: App III

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-283310/2**  
**Matrix: Water**  
**Analysis Batch: 283310**

**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			06/28/19 07:46	1

**Lab Sample ID: LCS 180-283310/1**  
**Matrix: Water**  
**Analysis Batch: 283310**

**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	201	200		mg/L		100	80 - 120

**Lab Sample ID: MB 180-283316/2**  
**Matrix: Water**  
**Analysis Batch: 283316**

**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			06/28/19 08:36	1

**Lab Sample ID: LCS 180-283316/1**  
**Matrix: Water**  
**Analysis Batch: 283316**

**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	201	208		mg/L		103	80 - 120

**Lab Sample ID: 180-91948-14 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 283316**

**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	280		268		mg/L		3	10

# QC Association Summary

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

Job ID: 180-91948-1  
 SDG: App III

## HPLC/IC

### Analysis Batch: 283622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-13	GWC-13	Total/NA	Ground Water	300.0	
180-91948-14	GWC-14	Total/NA	Ground Water	300.0	
180-91948-15	GWC-15	Total/NA	Ground Water	300.0	
180-91948-16	GWC-16	Total/NA	Ground Water	300.0	
180-91948-17	GWC-17	Total/NA	Ground Water	300.0	
180-91948-18	GWA-28	Total/NA	Ground Water	300.0	
180-91948-19	GWC-20	Total/NA	Ground Water	300.0	
180-91948-24	FB-1-6-25-19	Total/NA	Water	300.0	
180-91948-25	EB-2-6-25-19	Total/NA	Water	300.0	
MB 180-283622/38	Method Blank	Total/NA	Water	300.0	
LCS 180-283622/37	Lab Control Sample	Total/NA	Water	300.0	
180-91948-15 MS	GWC-15	Total/NA	Ground Water	300.0	
180-91948-15 MSD	GWC-15	Total/NA	Ground Water	300.0	

### Analysis Batch: 283631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total/NA	Ground Water	300.0	
180-91948-2	GWA-2	Total/NA	Ground Water	300.0	
180-91948-3	GWA-3	Total/NA	Ground Water	300.0	
180-91948-4	GWA-29	Total/NA	Ground Water	300.0	
180-91948-5	EB-1-6-25-19	Total/NA	Water	300.0	
180-91948-6	GWC-25	Total/NA	Ground Water	300.0	
180-91948-7	GWC-7	Total/NA	Ground Water	300.0	
180-91948-8	GWC-8	Total/NA	Ground Water	300.0	
MB 180-283631/18	Method Blank	Total/NA	Water	300.0	
LCS 180-283631/17	Lab Control Sample	Total/NA	Water	300.0	
180-91948-2 MS	GWA-2	Total/NA	Ground Water	300.0	
180-91948-2 MSD	GWA-2	Total/NA	Ground Water	300.0	

### Analysis Batch: 283780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-9	GWC-26	Total/NA	Ground Water	300.0	
180-91948-10	GWC-9	Total/NA	Ground Water	300.0	
180-91948-11	FB-2-6-25-19	Total/NA	Water	300.0	
180-91948-12	GWA-4	Total/NA	Ground Water	300.0	
180-91948-20	GWC-21	Total/NA	Ground Water	300.0	
180-91948-21	DUP-1	Total/NA	Water	300.0	
180-91948-22	DUP-2	Total/NA	Water	300.0	
180-91948-23	GWC-22	Total/NA	Ground Water	300.0	
MB 180-283780/6	Method Blank	Total/NA	Water	300.0	
LCS 180-283780/5	Lab Control Sample	Total/NA	Water	300.0	
180-91948-9 MS	GWC-26	Total/NA	Ground Water	300.0	
180-91948-9 MSD	GWC-26	Total/NA	Ground Water	300.0	

## Metals

### Prep Batch: 283300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total Recoverable	Ground Water	3005A	
180-91948-2	GWA-2	Total Recoverable	Ground Water	3005A	
180-91948-3	GWA-3	Total Recoverable	Ground Water	3005A	

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# QC Association Summary

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

Job ID: 180-91948-1  
 SDG: App III

## Metals (Continued)

### Prep Batch: 283300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-4	GWA-29	Total Recoverable	Ground Water	3005A	
180-91948-5	EB-1-6-25-19	Total Recoverable	Water	3005A	
180-91948-6	GWC-25	Total Recoverable	Ground Water	3005A	
180-91948-7	GWC-7	Total Recoverable	Ground Water	3005A	
180-91948-8	GWC-8	Total Recoverable	Ground Water	3005A	
180-91948-9	GWC-26	Total Recoverable	Ground Water	3005A	
180-91948-10	GWC-9	Total Recoverable	Ground Water	3005A	
180-91948-11	FB-2-6-25-19	Total Recoverable	Water	3005A	
180-91948-12	GWA-4	Total Recoverable	Ground Water	3005A	
180-91948-13	GWC-13	Total Recoverable	Ground Water	3005A	
180-91948-14	GWC-14	Total Recoverable	Ground Water	3005A	
180-91948-15	GWC-15	Total Recoverable	Ground Water	3005A	
180-91948-16	GWC-16	Total Recoverable	Ground Water	3005A	
180-91948-17	GWC-17	Total Recoverable	Ground Water	3005A	
180-91948-18	GWA-28	Total Recoverable	Ground Water	3005A	
180-91948-19	GWC-20	Total Recoverable	Ground Water	3005A	
180-91948-20	GWC-21	Total Recoverable	Ground Water	3005A	
MB 180-283300/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283300/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-91948-1 MS	GWA-1	Total Recoverable	Ground Water	3005A	
180-91948-1 MSD	GWA-1	Total Recoverable	Ground Water	3005A	

### Prep Batch: 283301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-21	DUP-1	Total Recoverable	Water	3005A	
180-91948-22	DUP-2	Total Recoverable	Water	3005A	
180-91948-23	GWC-22	Total Recoverable	Ground Water	3005A	
180-91948-24	FB-1-6-25-19	Total Recoverable	Water	3005A	
180-91948-25	EB-2-6-25-19	Total Recoverable	Water	3005A	
MB 180-283301/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283301/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 284336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-2	GWA-2	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-3	GWA-3	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-4	GWA-29	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-5	EB-1-6-25-19	Total Recoverable	Water	EPA 6020	283300
180-91948-6	GWC-25	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-7	GWC-7	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-8	GWC-8	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-9	GWC-26	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-10	GWC-9	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-11	FB-2-6-25-19	Total Recoverable	Water	EPA 6020	283300
180-91948-12	GWA-4	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-13	GWC-13	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-14	GWC-14	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-15	GWC-15	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-16	GWC-16	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-17	GWC-17	Total Recoverable	Ground Water	EPA 6020	283300

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# QC Association Summary

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

Job ID: 180-91948-1  
 SDG: App III

## Metals (Continued)

### Analysis Batch: 284336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-18	GWA-28	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-19	GWC-20	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-20	GWC-21	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-21	DUP-1	Total Recoverable	Water	EPA 6020	283301
180-91948-22	DUP-2	Total Recoverable	Water	EPA 6020	283301
180-91948-23	GWC-22	Total Recoverable	Ground Water	EPA 6020	283301
180-91948-24	FB-1-6-25-19	Total Recoverable	Water	EPA 6020	283301
180-91948-25	EB-2-6-25-19	Total Recoverable	Water	EPA 6020	283301
MB 180-283300/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283300
MB 180-283301/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283301
LCS 180-283300/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283300
LCS 180-283301/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283301
180-91948-1 MS	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-1 MSD	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300

## General Chemistry

### Analysis Batch: 283310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total/NA	Ground Water	SM 2540C	
180-91948-2	GWA-2	Total/NA	Ground Water	SM 2540C	
180-91948-3	GWA-3	Total/NA	Ground Water	SM 2540C	
180-91948-4	GWA-29	Total/NA	Ground Water	SM 2540C	
180-91948-5	EB-1-6-25-19	Total/NA	Water	SM 2540C	
180-91948-6	GWC-25	Total/NA	Ground Water	SM 2540C	
180-91948-7	GWC-7	Total/NA	Ground Water	SM 2540C	
180-91948-8	GWC-8	Total/NA	Ground Water	SM 2540C	
180-91948-9	GWC-26	Total/NA	Ground Water	SM 2540C	
180-91948-10	GWC-9	Total/NA	Ground Water	SM 2540C	
180-91948-12	GWA-4	Total/NA	Ground Water	SM 2540C	
MB 180-283310/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-283310/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 283316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-11	FB-2-6-25-19	Total/NA	Water	SM 2540C	
180-91948-13	GWC-13	Total/NA	Ground Water	SM 2540C	
180-91948-14	GWC-14	Total/NA	Ground Water	SM 2540C	
180-91948-15	GWC-15	Total/NA	Ground Water	SM 2540C	
180-91948-16	GWC-16	Total/NA	Ground Water	SM 2540C	
180-91948-17	GWC-17	Total/NA	Ground Water	SM 2540C	
180-91948-18	GWA-28	Total/NA	Ground Water	SM 2540C	
180-91948-19	GWC-20	Total/NA	Ground Water	SM 2540C	
180-91948-20	GWC-21	Total/NA	Ground Water	SM 2540C	
180-91948-21	DUP-1	Total/NA	Water	SM 2540C	
180-91948-22	DUP-2	Total/NA	Water	SM 2540C	
180-91948-23	GWC-22	Total/NA	Ground Water	SM 2540C	
180-91948-24	FB-1-6-25-19	Total/NA	Water	SM 2540C	
180-91948-25	EB-2-6-25-19	Total/NA	Water	SM 2540C	
MB 180-283316/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-283316/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-91948-1  
SDG: App III

## General Chemistry (Continued)

### Analysis Batch: 283316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-14 DU	GWC-14	Total/NA	Ground Water	SM 2540C	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Atlanta-189

<b>Client Information</b> Sampler: O. FURQUEA, H. FULD Phone: (770) 594-5998 Lab PM: Bortot, Veronica E-Mail: veronica_bortot@testamericainc.com		Carrier Tracking No(s): ACC to TA - ATU CA	
Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 PO #: SCS10347656 WO #: 40007709 Project #: CCR - Plant Wansley - Landfill Site: Georgia		<b>Analysis Requested</b> Due Date Requested: TAT Requested (days): 3 Day	
<b>Sample Identification</b> Sample ID: GWA-1 GWA-2 GWA-3 GWA-29 EB-1-6-25-19 GWC-25 GWC-7 GWC-8 GWC-26 GWC-9 FB-2-6-25-19		Matrix (W=water, S=solid, O=wastewater, A=air) Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code: Water	
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, Tl, V, Zn, Hg Cl, F, SO <sub>4</sub> & TDS (EPA 300.0 & SM 2540C)		Total Number of Containers Special Instructions/Note: APP III PLUS STATE METALS LIST	
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: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 6-26-19 / 13:00 Date: 6/26/19 Date: 6/26/19	
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

189

<b>Client Information</b> Client Contact: <u>Joju Abraham</u> Company: <u>Southern Company</u> Address: <u>PO BOX 2641 GSC8</u> City: <u>Birmingham</u> State/Zip: <u>AL, 35291</u> Phone: <u>770) 594-5998</u> Email: <u>JAbraham@southernco.com</u> Project Name: <u>CCR - Plant Wansley - Landfill</u> Site: <u>Georgia</u>		Lab PI#: <u>Bortol, Veronica</u> E-Mail: <u>veronica.bortol@testamericainc.com</u> Carrier Tracking No(s): <u>ACC to 7A</u> <u>ATL 66.</u>	
Due Date Requested: TAT Requested (days): <u>3 Day</u> PO #: <u>SCS10347656</u> W/O #: _____ Project #: <u>40007709</u> SSOV#: _____		Analysis Requested Total Number of containers: <u>2</u>	
Sample Identification <u>GWA-4</u> <u>GWC-13</u> <u>GWC-14</u> <u>GWC-15</u> <u>GWC-16</u> <u>GWC-17</u> <u>GWA-28</u> <u>GWC-20</u> <u>GWC-21</u> <u>Dup-1</u> <u>Dup-2</u>		Field Filtered Sample (Yes or No) <u>X</u> Perform MS/MSD (Yes or No) <u>X</u> App III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Be, Ca, Cd, Cr, Cu, Ni, Sb, Se, Ag, Tl, V, Zn, Hg C, F, SO <sub>4</sub> & TDS (EPA 300.0 & SM 2540C)	
Sample Date <u>6-24-19</u> <u>6-25-19</u> <u>6-25-19</u> <u>6-25-19</u> <u>6-25-19</u> <u>6-25-19</u> <u>6-25-19</u> <u>6-25-19</u> <u>6-25-19</u> <u>6-25-19</u>		Sample Time <u>1710</u> <u>1055</u> <u>1210</u> <u>1320</u> <u>1425</u> <u>1640</u> <u>1100</u> <u>1648</u> <u>1405</u> <u>-</u> <u>-</u>	
Sample Type (C=Comp, G=grab) <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u>		Matrix (w=water, s=solid, o=wastewater, b=biotissue, A=air) <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u>	
Preservation Code: <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>		Special Instructions/Note: <u>APP III PLUS STATE METALS LIST</u>	
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: <u>[Signature]</u> Date/Time: <u>6-26-19 / 11:00</u> Company: <u>ACC</u>		Relinquished by: <u>[Signature]</u> Date/Time: <u>6/26/19</u> Company: <u>ETA</u>	
Relinquished by: <u>[Signature]</u> Date/Time: <u>6/26/19</u> Company: <u>ETA</u>		Relinquished by: <u>[Signature]</u> Date/Time: <u>6-27-19</u> Company: <u>ETA</u>	
Relinquished by: <u>[Signature]</u> Date/Time: <u>6/26/19</u> Company: <u>ETA</u>		Relinquished by: <u>[Signature]</u> Date/Time: <u>9:00</u> Company: <u>ETA</u>	
Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks:	





Chain of Custody Record

Agency-189

<b>Client Information</b> Client Contact: C. Parker, R. Walker Phone: 770-594-5998 E-Mail: veronica.bortot@testamericainc.com		Lab P/N: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com		Carrier Tracking No(s): ACC-60 TA ATL-C-C		COC No: Page: Job #:		
Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Due Date Requested: TAT Requested (days): 3 Day PO #: SCS10347656 WO #: Project #: 40007709 SSOW#:		<b>Analysis Requested</b> Total Number of Containers: 2 Special Instructions/Note: APP III PLUS STATE METALS LIST FB-1-6-25-19		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	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (W=water, S=solid, O=wastefl, BT=TISSUE, AS=ur)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	APL 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, SO4, & TDS (EPA 300.0 & SM 2540C)
GWC-22	6-25-19	1252	G		Water	N	N	1
FB-1-6-25-19	6-25-19	1140	G		Water	N	N	1
EB-2-6-25-19	6-25-19	1540	G		Water	N	N	1
					Water			
					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: 6-26-19 13:00 Company: ACC			Method of Shipment:		
Relinquished by:			Date/Time: 6/26/19 13:00 Company: BTA			Date/Time:		
Relinquished by:			Date/Time: 6/26/19 Company: BTA			Date/Time:		
Relinquished by:			Date/Time: 6/26/19 Company: BTA			Date/Time:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:		



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-91948-1  
SDG Number: App III

**Login Number: 91948**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 180-91948-2

Laboratory Sample Delivery Group: State Metals  
Client Project/Site: CCR - Plant Wansley Landfill

**For:**

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

Attn: Joju Abraham



Authorized for release by:  
7/11/2019 3:16:29 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

Job ID: 180-91948-2  
SDG: State Metals

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**Job ID: 180-91948-2**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-91948-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/27/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 1.7° C.

**Metals**

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 180-284336 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-284336 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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: 180-91948-2  
SDG: State Metals

## Qualifiers

### 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.

## 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

Job ID: 180-91948-2  
 SDG: State Metals

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-20
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State		PH-0688	09-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-20
Florida	NELAP		E871008	06-30-20
Illinois	NELAP	5	200005	06-30-20
Illinois	NELAP		004375	06-30-20
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-20
Minnesota	NELAP Secondary AB	5	042-999-482	12-31-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-20
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
Rhode Island	State		LAO00362	12-30-19
Rhode Island	State Program	1	LAO00362	12-30-19
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P-Soil-01	06-26-22
Utah	NELAP	8	PA001462015-4	05-31-20
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19

# Sample Summary

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

Job ID: 180-91948-2  
SDG: State Metals

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-91948-1	GWA-1	Ground Water	06/24/19 16:30	06/27/19 09:00	
180-91948-2	GWA-2	Ground Water	06/24/19 14:55	06/27/19 09:00	
180-91948-3	GWA-3	Ground Water	06/25/19 10:00	06/27/19 09:00	
180-91948-4	GWA-29	Ground Water	06/25/19 11:45	06/27/19 09:00	
180-91948-5	EB-1-6-25-19	Water	06/25/19 12:00	06/27/19 09:00	
180-91948-6	GWC-25	Ground Water	06/25/19 13:00	06/27/19 09:00	
180-91948-7	GWC-7	Ground Water	06/25/19 11:15	06/27/19 09:00	
180-91948-8	GWC-8	Ground Water	06/25/19 17:10	06/27/19 09:00	
180-91948-9	GWC-26	Ground Water	06/25/19 14:20	06/27/19 09:00	
180-91948-10	GWC-9	Ground Water	06/25/19 14:00	06/27/19 09:00	
180-91948-11	FB-2-6-25-19	Water	06/25/19 15:35	06/27/19 09:00	
180-91948-12	GWA-4	Ground Water	06/24/19 17:10	06/27/19 09:00	
180-91948-13	GWC-13	Ground Water	06/25/19 10:55	06/27/19 09:00	
180-91948-14	GWC-14	Ground Water	06/25/19 12:10	06/27/19 09:00	
180-91948-15	GWC-15	Ground Water	06/25/19 13:20	06/27/19 09:00	
180-91948-16	GWC-16	Ground Water	06/25/19 14:25	06/27/19 09:00	
180-91948-17	GWC-17	Ground Water	06/25/19 16:40	06/27/19 09:00	
180-91948-18	GWA-28	Ground Water	06/25/19 11:00	06/27/19 09:00	
180-91948-19	GWC-20	Ground Water	06/25/19 16:48	06/27/19 09:00	
180-91948-20	GWC-21	Ground Water	06/25/19 14:05	06/27/19 09:00	
180-91948-21	DUP-1	Water	06/25/19 00:00	06/27/19 09:00	
180-91948-22	DUP-2	Water	06/25/19 00:00	06/27/19 09:00	
180-91948-23	GWC-22	Ground Water	06/25/19 12:52	06/27/19 09:00	
180-91948-24	FB-1-6-25-19	Water	06/25/19 11:40	06/27/19 09:00	
180-91948-25	EB-2-6-25-19	Water	06/25/19 15:40	06/27/19 09:00	



# Method Summary

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

Job ID: 180-91948-2  
SDG: State Metals

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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: 180-91948-2  
SDG: State Metals

## Client Sample ID: GWA-1

Date Collected: 06/24/19 16:30

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 18:44	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 15:39	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:09	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWA-2

Date Collected: 06/24/19 14:55

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 18:58	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 15:53	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:11	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWA-3

Date Collected: 06/25/19 10:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:01	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 15:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:12	RJR	TAL PIT
Instrument ID: HGY										

# Lab Chronicle

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

Job ID: 180-91948-2  
SDG: State Metals

## Client Sample ID: GWA-29

Date Collected: 06/25/19 11:45

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:05	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 15:59	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:13	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: EB-1-6-25-19

Date Collected: 06/25/19 12:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-5

Matrix: 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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:08	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 16:03	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:14	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-25

Date Collected: 06/25/19 13:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:12	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 16:06	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:16	RJR	TAL PIT
Instrument ID: HGY										

# Lab Chronicle

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

Job ID: 180-91948-2  
SDG: State Metals

## Client Sample ID: GWC-7

Date Collected: 06/25/19 11:15

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:17	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-8

Date Collected: 06/25/19 17:10

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:18	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-26

Date Collected: 06/25/19 14:20

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-9

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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:23	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-9

Date Collected: 06/25/19 14:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:24	RJR	TAL PIT
Instrument ID: HGY										

# Lab Chronicle

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

Job ID: 180-91948-2  
SDG: State Metals

## Client Sample ID: FB-2-6-25-19

Date Collected: 06/25/19 15:35

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-11

Matrix: 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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:25	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWA-4

Date Collected: 06/24/19 17:10

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:39	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:26	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-13

Date Collected: 06/25/19 10:55

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-13

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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:42	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:28	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-14

Date Collected: 06/25/19 12:10

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:46	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:29	RJR	TAL PIT
Instrument ID: HGY										

# Lab Chronicle

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

Job ID: 180-91948-2  
SDG: State Metals

## Client Sample ID: GWC-15

Date Collected: 06/25/19 13:20

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-15

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:49	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:30	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-16

Date Collected: 06/25/19 14:25

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-16

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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 19:52	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:31	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-17

Date Collected: 06/25/19 16:40

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-17

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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 20:03	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283943	07/04/19 09:55	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:33	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWA-28

Date Collected: 06/25/19 11:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-18

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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 20:06	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283944	07/04/19 09:59	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:40	RJR	TAL PIT
Instrument ID: HGY										

# Lab Chronicle

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

Job ID: 180-91948-2  
SDG: State Metals

## Client Sample ID: GWC-20

Date Collected: 06/25/19 16:48

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-19

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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 20:09	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283944	07/04/19 09:59	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:43	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-21

Date Collected: 06/25/19 14:05

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-20

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	283300	06/28/19 06:53	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 20:13	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283944	07/04/19 09:59	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:45	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: DUP-1

Date Collected: 06/25/19 00:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-21

Matrix: 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	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:23	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 14:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283944	07/04/19 09:59	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:46	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: DUP-2

Date Collected: 06/25/19 00:00

Date Received: 06/27/19 09:00

## Lab Sample ID: 180-91948-22

Matrix: 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	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:26	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 14:21	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: DUP-2**

**Lab Sample ID: 180-91948-22**

**Date Collected: 06/25/19 00:00**

**Matrix: Water**

**Date Received: 06/27/19 09:00**

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	283944	07/04/19 09:59	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:47	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-22**

**Lab Sample ID: 180-91948-23**

**Date Collected: 06/25/19 12:52**

**Matrix: Ground Water**

**Date Received: 06/27/19 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	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:30	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 14:24	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283944	07/04/19 09:59	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:48	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: FB-1-6-25-19**

**Lab Sample ID: 180-91948-24**

**Date Collected: 06/25/19 11:40**

**Matrix: Water**

**Date Received: 06/27/19 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	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:33	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 14:28	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283944	07/04/19 09:59	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:50	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: EB-2-6-25-19**

**Lab Sample ID: 180-91948-25**

**Date Collected: 06/25/19 15:40**

**Matrix: Water**

**Date Received: 06/27/19 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	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284336	07/09/19 17:43	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283301	06/28/19 06:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284478	07/10/19 14:31	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: EB-2-6-25-19**

**Lab Sample ID: 180-91948-25**

**Date Collected: 06/25/19 15:40**

**Matrix: Water**

**Date Received: 06/27/19 09:00**

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	283944	07/04/19 09:59	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 18:54	RJR	TAL PIT

Instrument ID: HGY

## 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

KAK = Kayla Kalamasz

RJR = Ron Rosenbaum

Batch Type: Analysis

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWA-1**  
Date Collected: 06/24/19 16:30  
Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-1**  
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Arsenic</b>	<b>0.00054</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Barium</b>	<b>0.0096</b>	<b>J</b>	0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Beryllium</b>	<b>0.00029</b>	<b>J</b>	0.0010	0.00016	mg/L		06/28/19 06:53	07/10/19 15:39	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Cobalt</b>	<b>0.00019</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Chromium</b>	<b>0.0042</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 18:44	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Nickel</b>	<b>0.00095</b>	<b>J B</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/10/19 15:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:44	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 18:44	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Thallium</b>	<b>0.00020</b>	<b>J</b>	0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Vanadium</b>	<b>0.0028</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 18:44	1
<b>Zinc</b>	<b>0.0048</b>	<b>J B</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/10/19 15:39	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		07/04/19 09:55	07/04/19 18:09	1

**Client Sample ID: GWA-2**  
Date Collected: 06/24/19 14:55  
Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-2**  
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Arsenic</b>	<b>0.00043</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Barium</b>	<b>0.011</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Beryllium</b>	<b>0.00023</b>	<b>J</b>	0.0010	0.00016	mg/L		06/28/19 06:53	07/10/19 15:53	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Cobalt</b>	<b>0.00019</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Copper</b>	<b>0.0011</b>	<b>J</b>	0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Nickel</b>	<b>0.0013</b>	<b>B</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/10/19 15:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:58	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 18:58	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 18:58	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Vanadium</b>	<b>0.0018</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 18:58	1
<b>Zinc</b>	<b>0.0046</b>	<b>J B</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/10/19 15:53	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		07/04/19 09:55	07/04/19 18:11	1

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWA-3**

**Lab Sample ID: 180-91948-3**

Date Collected: 06/25/19 10:00

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:01	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:01	1
<b>Barium</b>	<b>0.082</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:01	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/10/19 15:56	1
<b>Cadmium</b>	<b>0.00014</b>	<b>J</b>	0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:01	1
<b>Cobalt</b>	<b>0.00042</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:01	1
<b>Chromium</b>	<b>0.0027</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:01	1
<b>Copper</b>	<b>0.0040</b>		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:01	1
<b>Nickel</b>	<b>0.0021</b>	<b>B</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/10/19 15:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:01	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:01	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:01	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:01	1
<b>Vanadium</b>	<b>0.0028</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:01	1
<b>Zinc</b>	<b>0.014</b>	<b>B</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/10/19 15:56	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		07/04/19 09:55	07/04/19 18:12	1

**Client Sample ID: GWA-29**

**Lab Sample ID: 180-91948-4**

Date Collected: 06/25/19 11:45

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Silver</b>	<b>0.0017</b>		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:05	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:05	1
Barium	<0.0015		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:05	1
<b>Beryllium</b>	<b>0.0023</b>		0.0010	0.00016	mg/L		06/28/19 06:53	07/10/19 15:59	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:05	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:05	1
<b>Chromium</b>	<b>0.0030</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:05	1
<b>Copper</b>	<b>0.0085</b>		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:05	1
<b>Nickel</b>	<b>0.0028</b>	<b>B</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/10/19 15:59	1
<b>Lead</b>	<b>0.00029</b>	<b>J</b>	0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:05	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:05	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:05	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:05	1
<b>Vanadium</b>	<b>0.0023</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:05	1
<b>Zinc</b>	<b>0.041</b>	<b>B</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/10/19 15:59	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		07/04/19 09:55	07/04/19 18:13	1

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: EB-1-6-25-19**

**Lab Sample ID: 180-91948-5**

Date Collected: 06/25/19 12:00

Matrix: Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:08	1
<b>Arsenic</b>	<b>0.00046</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:08	1
Barium	<0.0015		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:08	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/10/19 16:03	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:08	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:08	1
<b>Chromium</b>	<b>0.0043</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:08	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:08	1
Nickel	<0.00031		0.0010	0.00031	mg/L		06/28/19 06:53	07/10/19 16:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:08	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:08	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:08	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:08	1
<b>Vanadium</b>	<b>0.0026</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:08	1
<b>Zinc</b>	<b>0.0088</b>	<b>B</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/10/19 16:03	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		07/04/19 09:55	07/04/19 18:14	1

**Client Sample ID: GWC-25**

**Lab Sample ID: 180-91948-6**

Date Collected: 06/25/19 13:00

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:12	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:12	1
<b>Barium</b>	<b>0.032</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:12	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/10/19 16:06	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:12	1
<b>Cobalt</b>	<b>0.0010</b>		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:12	1
<b>Chromium</b>	<b>0.0030</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:12	1
<b>Copper</b>	<b>0.0029</b>		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:12	1
<b>Nickel</b>	<b>0.0021</b>	<b>B</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/10/19 16:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:12	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:12	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:12	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:12	1
<b>Vanadium</b>	<b>0.0019</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:12	1
<b>Zinc</b>	<b>0.010</b>	<b>B</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/10/19 16:06	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		07/04/19 09:55	07/04/19 18:16	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWC-7**

**Lab Sample ID: 180-91948-7**

Date Collected: 06/25/19 11:15

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:22	1
<b>Arsenic</b>	<b>0.00035</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:22	1
<b>Barium</b>	<b>0.075</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:22	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:22	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:22	1
<b>Cobalt</b>	<b>0.0039</b>		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:22	1
<b>Chromium</b>	<b>0.0021</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:22	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:22	1
<b>Nickel</b>	<b>0.010</b>		0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:22	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:22	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:22	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:22	1
<b>Vanadium</b>	<b>0.0035</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:22	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:22	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		07/04/19 09:55	07/04/19 18:17	1

**Client Sample ID: GWC-8**

**Lab Sample ID: 180-91948-8**

Date Collected: 06/25/19 17:10

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:25	1
<b>Arsenic</b>	<b>0.00045</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:25	1
<b>Barium</b>	<b>0.060</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:25	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:25	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:25	1
<b>Cobalt</b>	<b>0.035</b>		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:25	1
<b>Chromium</b>	<b>0.0024</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:25	1
<b>Copper</b>	<b>0.00074</b>	<b>J</b>	0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:25	1
<b>Nickel</b>	<b>0.0053</b>		0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:25	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:25	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:25	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:25	1
<b>Vanadium</b>	<b>0.0026</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:25	1
<b>Zinc</b>	<b>0.0043</b>	<b>J</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:25	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		07/04/19 09:55	07/04/19 18:18	1

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWC-26**

**Lab Sample ID: 180-91948-9**

Date Collected: 06/25/19 14:20

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:29	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:29	1
<b>Barium</b>	<b>0.038</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:29	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:29	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:29	1
<b>Cobalt</b>	<b>0.00017</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:29	1
<b>Chromium</b>	<b>0.0030</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:29	1
<b>Copper</b>	<b>0.0020</b>		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:29	1
<b>Nickel</b>	<b>0.0031</b>		0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:29	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:29	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:29	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:29	1
<b>Vanadium</b>	<b>0.0024</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:29	1
<b>Zinc</b>	<b>0.0045</b>	<b>J</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:29	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		07/04/19 09:55	07/04/19 18:23	1

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-91948-10**

Date Collected: 06/25/19 14:00

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:32	1
<b>Arsenic</b>	<b>0.00086</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:32	1
<b>Barium</b>	<b>0.18</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:32	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:32	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:32	1
<b>Cobalt</b>	<b>0.043</b>		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:32	1
<b>Chromium</b>	<b>0.0048</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:32	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:32	1
<b>Nickel</b>	<b>0.010</b>		0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:32	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:32	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:32	1
<b>Vanadium</b>	<b>0.0020</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:32	1
<b>Zinc</b>	<b>0.0050</b>		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:32	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		07/04/19 09:55	07/04/19 18:24	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: FB-2-6-25-19**

**Lab Sample ID: 180-91948-11**

Date Collected: 06/25/19 15:35

Matrix: Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:35	1
<b>Arsenic</b>	<b>0.00037</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:35	1
Barium	<0.0015		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:35	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:35	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:35	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:35	1
<b>Chromium</b>	<b>0.0041</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:35	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:35	1
<b>Nickel</b>	<b>0.00093</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:35	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:35	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:35	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:35	1
<b>Vanadium</b>	<b>0.0022</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:35	1
<b>Zinc</b>	<b>0.0033</b>	<b>J</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:35	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		07/04/19 09:55	07/04/19 18:25	1

**Client Sample ID: GWA-4**

**Lab Sample ID: 180-91948-12**

Date Collected: 06/24/19 17:10

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:39	1
<b>Arsenic</b>	<b>0.00032</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:39	1
<b>Barium</b>	<b>0.12</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:39	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:39	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:39	1
<b>Cobalt</b>	<b>0.0060</b>		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:39	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:39	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:39	1
<b>Nickel</b>	<b>0.0022</b>		0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:39	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:39	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:39	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:39	1
<b>Vanadium</b>	<b>0.0020</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:39	1
<b>Zinc</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:39	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		07/04/19 09:55	07/04/19 18:26	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWC-13**

**Lab Sample ID: 180-91948-13**

Date Collected: 06/25/19 10:55

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:42	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:42	1
<b>Barium</b>	<b>0.0069</b>	<b>J</b>	0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:42	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:42	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:42	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:42	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:42	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:42	1
<b>Nickel</b>	<b>0.00068</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:42	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:42	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:42	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:42	1
<b>Vanadium</b>	<b>0.0021</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:42	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:42	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		07/04/19 09:55	07/04/19 18:28	1

**Client Sample ID: GWC-14**

**Lab Sample ID: 180-91948-14**

Date Collected: 06/25/19 12:10

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Arsenic</b>	<b>0.00048</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Barium</b>	<b>0.16</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Beryllium</b>	<b>0.00041</b>	<b>J</b>	0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Cadmium</b>	<b>0.00021</b>	<b>J</b>	0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Cobalt</b>	<b>0.23</b>		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Copper</b>	<b>0.00080</b>	<b>J</b>	0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Nickel</b>	<b>0.016</b>		0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:46	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:46	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:46	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Thallium</b>	<b>0.00046</b>	<b>J</b>	0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Vanadium</b>	<b>0.0014</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:46	1
<b>Zinc</b>	<b>0.014</b>		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:46	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		07/04/19 09:55	07/04/19 18:29	1



# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWC-15**

**Lab Sample ID: 180-91948-15**

Date Collected: 06/25/19 13:20

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:49	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:49	1
<b>Barium</b>	<b>0.0096</b>	<b>J</b>	0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:49	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:49	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:49	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:49	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:49	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:49	1
<b>Nickel</b>	<b>0.00031</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:49	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:49	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:49	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:49	1
<b>Vanadium</b>	<b>0.0019</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:49	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:49	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		07/04/19 09:55	07/04/19 18:30	1

**Client Sample ID: GWC-16**

**Lab Sample ID: 180-91948-16**

Date Collected: 06/25/19 14:25

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 19:52	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 19:52	1
<b>Barium</b>	<b>0.018</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 19:52	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 19:52	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:52	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 19:52	1
<b>Chromium</b>	<b>0.0045</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 19:52	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 19:52	1
<b>Nickel</b>	<b>0.00067</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 19:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:52	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 19:52	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 19:52	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 19:52	1
<b>Vanadium</b>	<b>0.0056</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 19:52	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 19:52	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		07/04/19 09:55	07/04/19 18:31	1

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWC-17**

**Lab Sample ID: 180-91948-17**

Date Collected: 06/25/19 16:40

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 20:03	1
<b>Arsenic</b>	<b>0.00038</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 20:03	1
<b>Barium</b>	<b>0.017</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 20:03	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 20:03	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:03	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 20:03	1
<b>Chromium</b>	<b>0.0042</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 20:03	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 20:03	1
<b>Nickel</b>	<b>0.00092</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 20:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:03	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 20:03	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 20:03	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:03	1
<b>Vanadium</b>	<b>0.0050</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 20:03	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 20:03	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		07/04/19 09:55	07/04/19 18:33	1

**Client Sample ID: GWA-28**

**Lab Sample ID: 180-91948-18**

Date Collected: 06/25/19 11:00

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 20:06	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 20:06	1
Barium	<0.0015		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 20:06	1
<b>Beryllium</b>	<b>0.00039</b>	<b>J</b>	0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 20:06	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:06	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 20:06	1
<b>Chromium</b>	<b>0.0024</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 20:06	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 20:06	1
<b>Nickel</b>	<b>0.00088</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 20:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:06	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 20:06	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 20:06	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:06	1
<b>Vanadium</b>	<b>0.0025</b>		0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 20:06	1
<b>Zinc</b>	<b>0.011</b>		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 20:06	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		07/04/19 09:59	07/04/19 18:40	1

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWC-20**

Date Collected: 06/25/19 16:48

Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-19**

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 20:09	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 20:09	1
<b>Barium</b>	<b>0.034</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 20:09	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 20:09	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:09	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 20:09	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 20:09	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 20:09	1
<b>Nickel</b>	<b>0.00048</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 20:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:09	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 20:09	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 20:09	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:09	1
<b>Vanadium</b>	<b>0.0038</b>	<b>B</b>	0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 20:09	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 20:09	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		07/04/19 09:59	07/04/19 18:43	1

**Client Sample ID: GWC-21**

Date Collected: 06/25/19 14:05

Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-20**

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 20:13	1
<b>Arsenic</b>	<b>0.00037</b>	<b>J</b>	0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 20:13	1
<b>Barium</b>	<b>0.046</b>		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 20:13	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/09/19 20:13	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:13	1
<b>Cobalt</b>	<b>0.0028</b>		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 20:13	1
<b>Chromium</b>	<b>0.0021</b>		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 20:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 20:13	1
<b>Nickel</b>	<b>0.00085</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:53	07/09/19 20:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:13	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 20:13	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 20:13	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 20:13	1
<b>Vanadium</b>	<b>0.0021</b>		0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 20:13	1
<b>Zinc</b>	<b>0.0039</b>	<b>J</b>	0.0050	0.0032	mg/L		06/28/19 06:53	07/09/19 20:13	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		07/04/19 09:59	07/04/19 18:45	1

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: DUP-1**  
Date Collected: 06/25/19 00:00  
Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-21**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:54	07/09/19 17:23	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:54	07/09/19 17:23	1
<b>Barium</b>	<b>0.0029</b>	<b>J</b>	0.010	0.0015	mg/L		06/28/19 06:54	07/09/19 17:23	1
<b>Beryllium</b>	<b>0.00041</b>	<b>J</b>	0.0010	0.00016	mg/L		06/28/19 06:54	07/09/19 17:23	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:23	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:54	07/09/19 17:23	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		06/28/19 06:54	07/09/19 17:23	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:54	07/09/19 17:23	1
<b>Nickel</b>	<b>0.00050</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:54	07/10/19 14:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:23	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:54	07/09/19 17:23	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:54	07/09/19 17:23	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:23	1
<b>Vanadium</b>	<b>0.0018</b>		0.0010	0.00090	mg/L		06/28/19 06:54	07/09/19 17:23	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:54	07/09/19 17:23	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		07/04/19 09:59	07/04/19 18:46	1

**Client Sample ID: DUP-2**  
Date Collected: 06/25/19 00:00  
Date Received: 06/27/19 09:00

**Lab Sample ID: 180-91948-22**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:54	07/09/19 17:26	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:54	07/09/19 17:26	1
<b>Barium</b>	<b>0.033</b>		0.010	0.0015	mg/L		06/28/19 06:54	07/09/19 17:26	1
<b>Beryllium</b>	<b>0.00021</b>	<b>J</b>	0.0010	0.00016	mg/L		06/28/19 06:54	07/09/19 17:26	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:26	1
<b>Cobalt</b>	<b>0.00016</b>	<b>J</b>	0.00050	0.000075	mg/L		06/28/19 06:54	07/09/19 17:26	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		06/28/19 06:54	07/09/19 17:26	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:54	07/09/19 17:26	1
Nickel	<0.00031		0.0010	0.00031	mg/L		06/28/19 06:54	07/10/19 14:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:26	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:54	07/09/19 17:26	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:54	07/09/19 17:26	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:26	1
<b>Vanadium</b>	<b>0.0033</b>		0.0010	0.00090	mg/L		06/28/19 06:54	07/09/19 17:26	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:54	07/09/19 17:26	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		07/04/19 09:59	07/04/19 18:47	1

# Client Sample Results

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

Job ID: 180-91948-2  
SDG: State Metals

**Client Sample ID: GWC-22**

**Lab Sample ID: 180-91948-23**

Date Collected: 06/25/19 12:52

Matrix: Ground Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:54	07/09/19 17:30	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:54	07/09/19 17:30	1
<b>Barium</b>	<b>0.026</b>		0.010	0.0015	mg/L		06/28/19 06:54	07/09/19 17:30	1
<b>Beryllium</b>	<b>0.00017</b>	<b>J</b>	0.0010	0.00016	mg/L		06/28/19 06:54	07/09/19 17:30	1
<b>Cadmium</b>	<b>0.00057</b>	<b>J</b>	0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:30	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:54	07/09/19 17:30	1
<b>Chromium</b>	<b>0.0030</b>		0.0020	0.0015	mg/L		06/28/19 06:54	07/09/19 17:30	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:54	07/09/19 17:30	1
<b>Nickel</b>	<b>0.00031</b>	<b>J</b>	0.0010	0.00031	mg/L		06/28/19 06:54	07/10/19 14:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:30	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:54	07/09/19 17:30	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:54	07/09/19 17:30	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:30	1
<b>Vanadium</b>	<b>0.0092</b>		0.0010	0.00090	mg/L		06/28/19 06:54	07/09/19 17:30	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:54	07/09/19 17:30	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		07/04/19 09:59	07/04/19 18:48	1

**Client Sample ID: FB-1-6-25-19**

**Lab Sample ID: 180-91948-24**

Date Collected: 06/25/19 11:40

Matrix: Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:54	07/09/19 17:33	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:54	07/09/19 17:33	1
Barium	<0.0015		0.010	0.0015	mg/L		06/28/19 06:54	07/09/19 17:33	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:54	07/09/19 17:33	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:33	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:54	07/09/19 17:33	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		06/28/19 06:54	07/09/19 17:33	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:54	07/09/19 17:33	1
Nickel	<0.00031		0.0010	0.00031	mg/L		06/28/19 06:54	07/10/19 14:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:33	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:54	07/09/19 17:33	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:54	07/09/19 17:33	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:33	1
<b>Vanadium</b>	<b>0.0013</b>		0.0010	0.00090	mg/L		06/28/19 06:54	07/09/19 17:33	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:54	07/09/19 17:33	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		07/04/19 09:59	07/04/19 18:50	1

# Client Sample Results

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

Job ID: 180-91948-2  
 SDG: State Metals

**Client Sample ID: EB-2-6-25-19**

**Lab Sample ID: 180-91948-25**

Date Collected: 06/25/19 15:40

Matrix: Water

Date Received: 06/27/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:54	07/09/19 17:43	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:54	07/09/19 17:43	1
Barium	<0.0015		0.010	0.0015	mg/L		06/28/19 06:54	07/09/19 17:43	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:54	07/10/19 14:31	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:43	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:54	07/09/19 17:43	1
<b>Chromium</b>	<b>0.0021</b>		0.0020	0.0015	mg/L		06/28/19 06:54	07/09/19 17:43	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:54	07/09/19 17:43	1
Nickel	<0.00031		0.0010	0.00031	mg/L		06/28/19 06:54	07/10/19 14:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:43	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:54	07/09/19 17:43	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:54	07/09/19 17:43	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 17:43	1
<b>Vanadium</b>	<b>0.0010</b>		0.0010	0.00090	mg/L		06/28/19 06:54	07/09/19 17:43	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:54	07/09/19 17:43	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		07/04/19 09:59	07/04/19 18:54	1

# QC Sample Results

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

Job ID: 180-91948-2  
 SDG: State Metals

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-283300/1-A**  
**Matrix: Water**  
**Analysis Batch: 284336**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:53	07/09/19 18:24	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:53	07/09/19 18:24	1
Barium	<0.0015		0.010	0.0015	mg/L		06/28/19 06:53	07/09/19 18:24	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:24	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:53	07/09/19 18:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/28/19 06:53	07/09/19 18:24	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:53	07/09/19 18:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:24	1
Antimony	<0.00038		0.0020	0.00038	mg/L		06/28/19 06:53	07/09/19 18:24	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:53	07/09/19 18:24	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:53	07/09/19 18:24	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		06/28/19 06:53	07/09/19 18:24	1

**Lab Sample ID: MB 180-283300/1-A**  
**Matrix: Water**  
**Analysis Batch: 284478**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:53	07/10/19 15:12	1
Nickel	0.000470	J	0.0010	0.00031	mg/L		06/28/19 06:53	07/10/19 15:12	1
Zinc	0.00334	J	0.0050	0.0032	mg/L		06/28/19 06:53	07/10/19 15:12	1

**Lab Sample ID: LCS 180-283300/2-A**  
**Matrix: Water**  
**Analysis Batch: 284336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.250	0.256		mg/L		102	80 - 120
Arsenic	1.00	0.983		mg/L		98	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Cadmium	0.500	0.518		mg/L		104	80 - 120
Cobalt	0.500	0.491		mg/L		98	80 - 120
Chromium	0.500	0.512		mg/L		102	80 - 120
Copper	0.500	0.484		mg/L		97	80 - 120
Lead	0.500	0.515		mg/L		103	80 - 120
Antimony	0.250	0.271		mg/L		108	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Vanadium	0.500	0.510	B	mg/L		102	80 - 120
Zinc	0.250	0.245	B	mg/L		98	80 - 120

**Lab Sample ID: LCS 180-283300/2-A**  
**Matrix: Water**  
**Analysis Batch: 284478**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Beryllium	0.500	0.510		mg/L		102	80 - 120
Nickel	0.500	0.521		mg/L		104	80 - 120
Zinc	0.250	0.271		mg/L		108	80 - 120

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# QC Sample Results

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

Job ID: 180-91948-2  
 SDG: State Metals

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

**Lab Sample ID: 180-91948-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284336**

**Client Sample ID: GWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Silver	<0.00012		0.250	0.255		mg/L		102	75 - 125	
Arsenic	0.00054	J	1.00	0.967		mg/L		97	75 - 125	
Barium	0.0096	J	1.00	1.03		mg/L		102	75 - 125	
Cadmium	<0.00013		0.500	0.517		mg/L		103	75 - 125	
Cobalt	0.00019	J	0.500	0.489		mg/L		98	75 - 125	
Chromium	0.0042		0.500	0.507		mg/L		101	75 - 125	
Copper	<0.00063		0.500	0.483		mg/L		97	75 - 125	
Lead	<0.00013		0.500	0.510		mg/L		102	75 - 125	
Antimony	<0.00038		0.250	0.270		mg/L		108	75 - 125	
Selenium	<0.0026		1.00	1.02		mg/L		102	75 - 125	
Thallium	0.00020	J	1.00	1.04		mg/L		104	75 - 125	
Vanadium	0.0028	B	0.500	0.505	B	mg/L		100	75 - 125	

**Lab Sample ID: 180-91948-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284478**

**Client Sample ID: GWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Beryllium	0.00029	J	0.500	0.519		mg/L		104	75 - 125	
Nickel	0.00095	J B	0.500	0.520		mg/L		104	75 - 125	
Zinc	0.0048	J B	0.250	0.271		mg/L		107	75 - 125	

**Lab Sample ID: 180-91948-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 284336**

**Client Sample ID: GWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Silver	<0.00012		0.250	0.249		mg/L		100	75 - 125	2	20	
Arsenic	0.00054	J	1.00	0.953		mg/L		95	75 - 125	2	20	
Barium	0.0096	J	1.00	1.05		mg/L		104	75 - 125	1	20	
Cadmium	<0.00013		0.500	0.517		mg/L		103	75 - 125	0	20	
Cobalt	0.00019	J	0.500	0.483		mg/L		97	75 - 125	1	20	
Chromium	0.0042		0.500	0.509		mg/L		101	75 - 125	0	20	
Copper	<0.00063		0.500	0.474		mg/L		95	75 - 125	2	20	
Lead	<0.00013		0.500	0.512		mg/L		102	75 - 125	0	20	
Antimony	<0.00038		0.250	0.265		mg/L		106	75 - 125	2	20	
Selenium	<0.0026		1.00	1.01		mg/L		101	75 - 125	1	20	
Thallium	0.00020	J	1.00	1.05		mg/L		105	75 - 125	2	20	
Vanadium	0.0028	B	0.500	0.507	B	mg/L		101	75 - 125	0	20	

**Lab Sample ID: 180-91948-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 284478**

**Client Sample ID: GWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283300**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Beryllium	0.00029	J	0.500	0.521		mg/L		104	75 - 125	0	20	
Nickel	0.00095	J B	0.500	0.514		mg/L		103	75 - 125	1	20	
Zinc	0.0048	J B	0.250	0.265		mg/L		104	75 - 125	2	20	



# QC Sample Results

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

Job ID: 180-91948-2  
 SDG: State Metals

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

**Lab Sample ID: MB 180-283301/1-A**  
**Matrix: Water**  
**Analysis Batch: 284336**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283301**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	<0.00012		0.0010	0.00012	mg/L		06/28/19 06:54	07/09/19 16:42	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		06/28/19 06:54	07/09/19 16:42	1
Barium	<0.0015		0.010	0.0015	mg/L		06/28/19 06:54	07/09/19 16:42	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		06/28/19 06:54	07/09/19 16:42	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 16:42	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		06/28/19 06:54	07/09/19 16:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/28/19 06:54	07/09/19 16:42	1
Copper	<0.00063		0.0020	0.00063	mg/L		06/28/19 06:54	07/09/19 16:42	1
Nickel	<0.00031		0.0010	0.00031	mg/L		06/28/19 06:54	07/09/19 16:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 16:42	1
Antimony	0.00133	J	0.0020	0.00038	mg/L		06/28/19 06:54	07/09/19 16:42	1
Selenium	<0.0026		0.0050	0.0026	mg/L		06/28/19 06:54	07/09/19 16:42	1
Thallium	<0.00013		0.0010	0.00013	mg/L		06/28/19 06:54	07/09/19 16:42	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		06/28/19 06:54	07/09/19 16:42	1
Zinc	<0.0032		0.0050	0.0032	mg/L		06/28/19 06:54	07/09/19 16:42	1

**Lab Sample ID: MB 180-283301/1-A**  
**Matrix: Water**  
**Analysis Batch: 284478**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283301**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nickel	<0.00031		0.0010	0.00031	mg/L		06/28/19 06:54	07/10/19 13:44	1

**Lab Sample ID: LCS 180-283301/2-A**  
**Matrix: Water**  
**Analysis Batch: 284336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.250	0.248		mg/L		99	80 - 120
Arsenic	1.00	0.974		mg/L		97	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.475		mg/L		95	80 - 120
Cadmium	0.500	0.507		mg/L		101	80 - 120
Cobalt	0.500	0.481		mg/L		96	80 - 120
Chromium	0.500	0.501		mg/L		100	80 - 120
Copper	0.500	0.472		mg/L		94	80 - 120
Nickel	0.500	0.484	^	mg/L		97	80 - 120
Lead	0.500	0.508		mg/L		102	80 - 120
Antimony	0.250	0.264		mg/L		106	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120
Vanadium	0.500	0.501		mg/L		100	80 - 120
Zinc	0.250	0.241		mg/L		97	80 - 120

# QC Sample Results

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

Job ID: 180-91948-2  
 SDG: State Metals

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

Lab Sample ID: LCS 180-283301/2-A  
 Matrix: Water  
 Analysis Batch: 284478

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 283301  
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nickel	0.500	0.536		mg/L		107	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-283943/1-A  
 Matrix: Water  
 Analysis Batch: 283958

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 283943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		07/04/19 09:55	07/04/19 17:55	1

Lab Sample ID: LCS 180-283943/2-A  
 Matrix: Water  
 Analysis Batch: 283958

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 283943  
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00251		mg/L		100	80 - 120

Lab Sample ID: MB 180-283944/1-A  
 Matrix: Water  
 Analysis Batch: 283958

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 283944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		07/04/19 09:59	07/04/19 18:34	1

Lab Sample ID: LCS 180-283944/2-A  
 Matrix: Water  
 Analysis Batch: 283958

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 283944  
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

Lab Sample ID: 180-91948-18 MS  
 Matrix: Ground Water  
 Analysis Batch: 283958

Client Sample ID: GWA-28  
 Prep Type: Total/NA  
 Prep Batch: 283944  
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000997		mg/L		100	75 - 125

Lab Sample ID: 180-91948-18 MSD  
 Matrix: Ground Water  
 Analysis Batch: 283958

Client Sample ID: GWA-28  
 Prep Type: Total/NA  
 Prep Batch: 283944  
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000981		mg/L		98	75 - 125	2	20

# QC Association Summary

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

Job ID: 180-91948-2  
 SDG: State Metals

## Metals

### Prep Batch: 283300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total Recoverable	Ground Water	3005A	
180-91948-2	GWA-2	Total Recoverable	Ground Water	3005A	
180-91948-3	GWA-3	Total Recoverable	Ground Water	3005A	
180-91948-4	GWA-29	Total Recoverable	Ground Water	3005A	
180-91948-5	EB-1-6-25-19	Total Recoverable	Water	3005A	
180-91948-6	GWC-25	Total Recoverable	Ground Water	3005A	
180-91948-7	GWC-7	Total Recoverable	Ground Water	3005A	
180-91948-8	GWC-8	Total Recoverable	Ground Water	3005A	
180-91948-9	GWC-26	Total Recoverable	Ground Water	3005A	
180-91948-10	GWC-9	Total Recoverable	Ground Water	3005A	
180-91948-11	FB-2-6-25-19	Total Recoverable	Water	3005A	
180-91948-12	GWA-4	Total Recoverable	Ground Water	3005A	
180-91948-13	GWC-13	Total Recoverable	Ground Water	3005A	
180-91948-14	GWC-14	Total Recoverable	Ground Water	3005A	
180-91948-15	GWC-15	Total Recoverable	Ground Water	3005A	
180-91948-16	GWC-16	Total Recoverable	Ground Water	3005A	
180-91948-17	GWC-17	Total Recoverable	Ground Water	3005A	
180-91948-18	GWA-28	Total Recoverable	Ground Water	3005A	
180-91948-19	GWC-20	Total Recoverable	Ground Water	3005A	
180-91948-20	GWC-21	Total Recoverable	Ground Water	3005A	
MB 180-283300/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283300/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-91948-1 MS	GWA-1	Total Recoverable	Ground Water	3005A	
180-91948-1 MSD	GWA-1	Total Recoverable	Ground Water	3005A	

### Prep Batch: 283301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-21	DUP-1	Total Recoverable	Water	3005A	
180-91948-22	DUP-2	Total Recoverable	Water	3005A	
180-91948-23	GWC-22	Total Recoverable	Ground Water	3005A	
180-91948-24	FB-1-6-25-19	Total Recoverable	Water	3005A	
180-91948-25	EB-2-6-25-19	Total Recoverable	Water	3005A	
MB 180-283301/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283301/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 283943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total/NA	Ground Water	7470A	
180-91948-2	GWA-2	Total/NA	Ground Water	7470A	
180-91948-3	GWA-3	Total/NA	Ground Water	7470A	
180-91948-4	GWA-29	Total/NA	Ground Water	7470A	
180-91948-5	EB-1-6-25-19	Total/NA	Water	7470A	
180-91948-6	GWC-25	Total/NA	Ground Water	7470A	
180-91948-7	GWC-7	Total/NA	Ground Water	7470A	
180-91948-8	GWC-8	Total/NA	Ground Water	7470A	
180-91948-9	GWC-26	Total/NA	Ground Water	7470A	
180-91948-10	GWC-9	Total/NA	Ground Water	7470A	
180-91948-11	FB-2-6-25-19	Total/NA	Water	7470A	
180-91948-12	GWA-4	Total/NA	Ground Water	7470A	
180-91948-13	GWC-13	Total/NA	Ground Water	7470A	
180-91948-14	GWC-14	Total/NA	Ground Water	7470A	

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# QC Association Summary

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

Job ID: 180-91948-2  
 SDG: State Metals

## Metals (Continued)

### Prep Batch: 283943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-15	GWC-15	Total/NA	Ground Water	7470A	
180-91948-16	GWC-16	Total/NA	Ground Water	7470A	
180-91948-17	GWC-17	Total/NA	Ground Water	7470A	
MB 180-283943/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-283943/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 283944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-18	GWA-28	Total/NA	Ground Water	7470A	
180-91948-19	GWC-20	Total/NA	Ground Water	7470A	
180-91948-20	GWC-21	Total/NA	Ground Water	7470A	
180-91948-21	DUP-1	Total/NA	Water	7470A	
180-91948-22	DUP-2	Total/NA	Water	7470A	
180-91948-23	GWC-22	Total/NA	Ground Water	7470A	
180-91948-24	FB-1-6-25-19	Total/NA	Water	7470A	
180-91948-25	EB-2-6-25-19	Total/NA	Water	7470A	
MB 180-283944/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-283944/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-91948-18 MS	GWA-28	Total/NA	Ground Water	7470A	
180-91948-18 MSD	GWA-28	Total/NA	Ground Water	7470A	

### Analysis Batch: 283958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total/NA	Ground Water	EPA 7470A	283943
180-91948-2	GWA-2	Total/NA	Ground Water	EPA 7470A	283943
180-91948-3	GWA-3	Total/NA	Ground Water	EPA 7470A	283943
180-91948-4	GWA-29	Total/NA	Ground Water	EPA 7470A	283943
180-91948-5	EB-1-6-25-19	Total/NA	Water	EPA 7470A	283943
180-91948-6	GWC-25	Total/NA	Ground Water	EPA 7470A	283943
180-91948-7	GWC-7	Total/NA	Ground Water	EPA 7470A	283943
180-91948-8	GWC-8	Total/NA	Ground Water	EPA 7470A	283943
180-91948-9	GWC-26	Total/NA	Ground Water	EPA 7470A	283943
180-91948-10	GWC-9	Total/NA	Ground Water	EPA 7470A	283943
180-91948-11	FB-2-6-25-19	Total/NA	Water	EPA 7470A	283943
180-91948-12	GWA-4	Total/NA	Ground Water	EPA 7470A	283943
180-91948-13	GWC-13	Total/NA	Ground Water	EPA 7470A	283943
180-91948-14	GWC-14	Total/NA	Ground Water	EPA 7470A	283943
180-91948-15	GWC-15	Total/NA	Ground Water	EPA 7470A	283943
180-91948-16	GWC-16	Total/NA	Ground Water	EPA 7470A	283943
180-91948-17	GWC-17	Total/NA	Ground Water	EPA 7470A	283943
180-91948-18	GWA-28	Total/NA	Ground Water	EPA 7470A	283944
180-91948-19	GWC-20	Total/NA	Ground Water	EPA 7470A	283944
180-91948-20	GWC-21	Total/NA	Ground Water	EPA 7470A	283944
180-91948-21	DUP-1	Total/NA	Water	EPA 7470A	283944
180-91948-22	DUP-2	Total/NA	Water	EPA 7470A	283944
180-91948-23	GWC-22	Total/NA	Ground Water	EPA 7470A	283944
180-91948-24	FB-1-6-25-19	Total/NA	Water	EPA 7470A	283944
180-91948-25	EB-2-6-25-19	Total/NA	Water	EPA 7470A	283944
MB 180-283943/1-A	Method Blank	Total/NA	Water	EPA 7470A	283943
MB 180-283944/1-A	Method Blank	Total/NA	Water	EPA 7470A	283944
LCS 180-283943/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	283943

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-91948-2  
 SDG: State Metals

## Metals (Continued)

### Analysis Batch: 283958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-283944/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	283944
180-91948-18 MS	GWA-28	Total/NA	Ground Water	EPA 7470A	283944
180-91948-18 MSD	GWA-28	Total/NA	Ground Water	EPA 7470A	283944

### Analysis Batch: 284336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-2	GWA-2	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-3	GWA-3	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-4	GWA-29	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-5	EB-1-6-25-19	Total Recoverable	Water	EPA 6020	283300
180-91948-6	GWC-25	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-7	GWC-7	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-8	GWC-8	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-9	GWC-26	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-10	GWC-9	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-11	FB-2-6-25-19	Total Recoverable	Water	EPA 6020	283300
180-91948-12	GWA-4	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-13	GWC-13	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-14	GWC-14	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-15	GWC-15	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-16	GWC-16	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-17	GWC-17	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-18	GWA-28	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-19	GWC-20	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-20	GWC-21	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-21	DUP-1	Total Recoverable	Water	EPA 6020	283301
180-91948-22	DUP-2	Total Recoverable	Water	EPA 6020	283301
180-91948-23	GWC-22	Total Recoverable	Ground Water	EPA 6020	283301
180-91948-24	FB-1-6-25-19	Total Recoverable	Water	EPA 6020	283301
180-91948-25	EB-2-6-25-19	Total Recoverable	Water	EPA 6020	283301
MB 180-283300/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283300
MB 180-283301/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283301
LCS 180-283300/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283300
LCS 180-283301/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283301
180-91948-1 MS	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-1 MSD	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300

### Analysis Batch: 284478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91948-1	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-2	GWA-2	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-3	GWA-3	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-4	GWA-29	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-5	EB-1-6-25-19	Total Recoverable	Water	EPA 6020	283300
180-91948-6	GWC-25	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-21	DUP-1	Total Recoverable	Water	EPA 6020	283301
180-91948-22	DUP-2	Total Recoverable	Water	EPA 6020	283301
180-91948-23	GWC-22	Total Recoverable	Ground Water	EPA 6020	283301
180-91948-24	FB-1-6-25-19	Total Recoverable	Water	EPA 6020	283301
180-91948-25	EB-2-6-25-19	Total Recoverable	Water	EPA 6020	283301

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-91948-2  
SDG: State Metals

## Metals (Continued)

### Analysis Batch: 284478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-283300/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283300
MB 180-283301/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283301
LCS 180-283300/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283300
LCS 180-283301/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283301
180-91948-1 MS	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300
180-91948-1 MSD	GWA-1	Total Recoverable	Ground Water	EPA 6020	283300



Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Atlanta-189

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSCB City: Birmingham State, Zip: AL, 35291 Phone: JABraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Carrier Tracking No(s): ACC to TA-ATL-CA	
Due Date Requested: TAT Requested (days): 3 Day		Analysis Requested	
PO #: SCS10347656 WO #: 40007709 Project #: 40007709 SSO#:	Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No APP III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Be, Ca Cd, Cr, Co, Cu, Ni, Sb, Se, Ag, Tl, V, Zn, Hg Cl, F, SO <sub>4</sub> & TDS (EPA 300.0 & SM 2540C)	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO <sub>4</sub> F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
<b>Sample Identification</b> GWA-1 GWA-2 GWA-3 GWA-29 EB-1-6-25-19 GWC-25 GWC-7 GWC-8 GWC-26 GWC-9 FB-2-6-25-19	Sample Date 6-24-19 6-24-19 6-25-19 6-25-19 6-25-19 6-25-19 6-25-19 6-25-19 6-25-19 6-25-19 6-25-19	Sample Time 1630 1455 1600 1445 1200 1300 1115 1710 1420 1400 1535	Matrix (W=water, S=solid, O=wastewater, A=air) Preservation Code: Water Water Water Water Water Water Water Water Water Water Water
<b>Possible Hazard Identification</b> <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)		Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For	
<b>Empty Kit Relinquished by:</b> Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Method of Shipment: Date/Time: 6/26/19 13:00 Date/Time: 6/26/19 16:00 Date/Time: 6/26/19	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



TestAmerica Pensacola  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

189

TestAmerica  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b> Client Contact: Jolju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State/Zip: AL, 35291 Phone: 770) 594-5998 Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PI#: Borlot, Veronica E-Mail: veronica.borlot@testamericainc.com Carrier Tracking No(s): ACC to 7A ATC CC.		COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): 3 Day		<b>Analysis Requested</b>			
PO #: SCS10347656 W/O #:		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:			
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (w/water, s=solid, o=wast/oli, B=BIOTISSUE, A=AS)		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, Cu, Ni, Sb, Se, Ag, Tl, V, Zn, Hg C, F, SO4 & TDS (EPA 300.0 & SM 2540C)			
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		Special Instructions/Note: APP III PLUS STATE METALS LIST			
Deliverable Requested: I, II, III, IV, Other (specify)		Total Number of containers			
Empty Kit Relinquished by:		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			
Relinquished by: [Signature]		Special Instructions/QC Requirements:			
Relinquished by: [Signature]		Date/Time: 6-26-19 / 1:00 Date/Time: 6/26/19 Date/Time: 6-27-19 Date/Time: 9:00			
Relinquished by: [Signature]		Company: ACC Company: BTA Company: BTA Company: BTA			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			





Chain of Custody Record

Agency-189

Client Information

Sampler: C. Parker, R. Walker  
Lab P/N: Bortot, Veronica  
Phone: 770-594-5998  
Carrier Tracking No(s): ACC-50  
TRA ATL-C-C

Client Contact:  
Joju Abraham  
Southern Company  
E-Mail: veronica.bortot@testamericainc.com

Due Date Requested: 3 Day  
TAT Requested (days): 3 Day

PO #: SCS10347656  
WO #: JABraham@southernco.com

Project #: 40007709  
CCR - Plant Wansley - Landfill

Site: Georgia

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefl, B=bi-tissue, Asin)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	APC 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, Ti, SO <sub>4</sub> & TDS (EPA 300.0 & SM 2540C)	Analysis Requested		Total Number of Containers	Special Instructions/Note:
								Preservation Code:	Preservation Codes:		
GWC-22	6-25-19	1252	G	Water						2	APP III PLUS STATE METALS LIST
FB-1-6-25-19	6-25-19	1140	G	Water						2	FB-1-6-25-19
EB-2-6-25-19	6-25-19	1540	G	Water						2	
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

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: [Signature] Date: 6-26-19 13:00  
 Relinquished by: [Signature] Date: 6-26-19 13:00  
 Relinquished by: [Signature] Date: 6/26/19 16:00

Company: ACC  
 Company: EPA  
 Company: EPA

Received by: [Signature] Date/Time: 6/26/19 13:00  
 Received by: [Signature] Date/Time: 6-27-19  
 Received by: [Signature] Date/Time: 7/1/19

Cooler Temperature(s) °C and Other Remarks:

Custody Seal No.:  
 Yes  No

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-91948-2  
SDG Number: State Metals

**Login Number: 91948**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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: 180-92055-1  
Laboratory Sample Delivery Group: App III  
Client Project/Site: CCR - Plant Wansley

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

Attn: Joju Abraham



Authorized for release by:  
7/9/2019 12:07:33 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

Job ID: 180-92055-1  
SDG: App III

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**Job ID: 180-92055-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative  
180-92055-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/28/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3° C and 2.5° C.

**GC Semi VOA**

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

**Metals**

Method(s) 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-284064 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020, 6020A: The continuing calibration blank (CCB) associated with batch 180-284064 recovered above the upper control limit for boron. The samples associated with this CCB were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or 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

Job ID: 180-92055-1  
SDG: App III

## 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.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance 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.
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

Job ID: 180-92055-1  
SDG: App III

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-20
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-20
Florida	NELAP		E871008	06-30-20
Illinois	NELAP	5	200005	06-30-20
Illinois	NELAP		004375	06-30-20
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-20
Minnesota	NELAP Secondary AB	5	042-999-482	12-31-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-20
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
Rhode Island	State		LAO00362	12-30-19
Rhode Island	State Program	1	LAO00362	12-30-19
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P-Soil-01	06-26-22
Utah	NELAP	8	PA001462015-4	05-31-20
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19

# Sample Summary

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

Job ID: 180-92055-1  
SDG: App III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-92055-1	GWC-35	Ground Water	06/26/19 10:40	06/28/19 09:00	
180-92055-2	GWC-34	Ground Water	06/26/19 11:50	06/28/19 09:00	
180-92055-3	GWC-33	Ground Water	06/26/19 13:45	06/28/19 09:00	
180-92055-4	GWC-23	Ground Water	06/26/19 12:46	06/28/19 09:00	
180-92055-5	GWC-32	Ground Water	06/27/19 10:05	06/28/19 09:00	
180-92055-6	GWC-30	Ground Water	06/27/19 11:10	06/28/19 09:00	
180-92055-7	GWC-18	Ground Water	06/27/19 10:25	06/28/19 09:00	
180-92055-8	EB-4-6-27-19	Water	06/27/19 10:10	06/28/19 09:00	
180-92055-9	FB-4-6-27-19	Water	06/27/19 09:55	06/28/19 09:00	
180-92055-10	DUP-3	Water	06/27/19 00:00	06/28/19 09:00	
180-92055-11	DUP-4	Water	06/27/19 00:00	06/28/19 09:00	





# Method Summary

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

Job ID: 180-92055-1  
SDG: App III

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

#### Protocol References:

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

Job ID: 180-92055-1  
SDG: App III

## Client Sample ID: GWC-35

Date Collected: 06/26/19 10:40

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-1

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			283485	07/01/19 13:20	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:02	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283618	07/01/19 18:25	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-34

Date Collected: 06/26/19 11:50

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-2

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			283485	07/01/19 13:36	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:16	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283618	07/01/19 18:25	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-33

Date Collected: 06/26/19 13:45

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-3

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			283485	07/01/19 13:51	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:19	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283618	07/01/19 18:25	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-23

Date Collected: 06/26/19 12:46

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-4

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			283485	07/01/19 14:07	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:23	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283618	07/01/19 18:25	TAM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-92055-1  
SDG: App III

## Client Sample ID: GWC-32

Date Collected: 06/27/19 10:05

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-5

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			283485	07/01/19 15:26	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-30

Date Collected: 06/27/19 11:10

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-6

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			283485	07/01/19 16:14	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:36	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283897	07/03/19 15:20	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-18

Date Collected: 06/27/19 10:25

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-7

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			283485	07/01/19 16:30	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:40	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283915	07/03/19 18:02	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: EB-4-6-27-19

Date Collected: 06/27/19 10:10

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-8

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			283485	07/01/19 14:55	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:43	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283897	07/03/19 15:20	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-92055-1  
SDG: App III

**Client Sample ID: FB-4-6-27-19**

**Lab Sample ID: 180-92055-9**

**Date Collected: 06/27/19 09:55**

**Matrix: Water**

**Date Received: 06/28/19 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	300.0		1			283485	07/01/19 15:11	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:47	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283897	07/03/19 15:20	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: DUP-3**

**Lab Sample ID: 180-92055-10**

**Date Collected: 06/27/19 00:00**

**Matrix: Water**

**Date Received: 06/28/19 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	300.0		1			283485	07/01/19 16:45	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:50	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283915	07/03/19 18:02	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: DUP-4**

**Lab Sample ID: 180-92055-11**

**Date Collected: 06/27/19 00:00**

**Matrix: Water**

**Date Received: 06/28/19 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	300.0		1			283485	07/01/19 17:01	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:54	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283897	07/03/19 15:20	AVS	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

MJH = Matthew Hartman

RSK = Robert Kurtz

TAM = Tessa Mastalski

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-92055-1  
SDG: App III

## Client Sample ID: GWC-35

Date Collected: 06/26/19 10:40

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-1

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		1.0	0.71	mg/L			07/01/19 13:20	1
Fluoride	0.045	J	0.20	0.026	mg/L			07/01/19 13:20	1
Sulfate	2.8		1.0	0.38	mg/L			07/01/19 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:02	1
Calcium	2.0		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:02	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		10	10	mg/L			07/01/19 18:25	1

## Client Sample ID: GWC-34

Date Collected: 06/26/19 11:50

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-2

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			07/01/19 13:36	1
Fluoride	0.11	J	0.20	0.026	mg/L			07/01/19 13:36	1
Sulfate	1.9		1.0	0.38	mg/L			07/01/19 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:16	1
Calcium	2.8		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:16	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	61		10	10	mg/L			07/01/19 18:25	1

## Client Sample ID: GWC-33

Date Collected: 06/26/19 13:45

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-3

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		1.0	0.71	mg/L			07/01/19 13:51	1
Fluoride	2.4		0.20	0.026	mg/L			07/01/19 13:51	1
Sulfate	10		1.0	0.38	mg/L			07/01/19 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:19	1
Calcium	19		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:19	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			07/01/19 18:25	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-92055-1  
SDG: App III

## Client Sample ID: GWC-23

Date Collected: 06/26/19 12:46

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-4

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			07/01/19 14:07	1
Fluoride	0.042	J	0.20	0.026	mg/L			07/01/19 14:07	1
Sulfate	0.64	J	1.0	0.38	mg/L			07/01/19 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:23	1
Calcium	3.6		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:23	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		10	10	mg/L			07/01/19 18:25	1

## Client Sample ID: GWC-32

Date Collected: 06/27/19 10:05

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-5

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		1.0	0.71	mg/L			07/01/19 15:26	1
Fluoride	2.0		0.20	0.026	mg/L			07/01/19 15:26	1
Sulfate	9.9		1.0	0.38	mg/L			07/01/19 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:33	1
Calcium	7.6		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:33	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	47		10	10	mg/L			07/03/19 14:22	1

## Client Sample ID: GWC-30

Date Collected: 06/27/19 11:10

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-6

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	0.71	mg/L			07/01/19 16:14	1
Fluoride	0.073	J	0.20	0.026	mg/L			07/01/19 16:14	1
Sulfate	1.7		1.0	0.38	mg/L			07/01/19 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:36	1
Calcium	3.6		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:36	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		10	10	mg/L			07/03/19 15:20	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-92055-1  
SDG: App III

## Client Sample ID: GWC-18

Date Collected: 06/27/19 10:25

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-7

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			07/01/19 16:30	1
Fluoride	0.046	J	0.20	0.026	mg/L			07/01/19 16:30	1
Sulfate	0.85	J	1.0	0.38	mg/L			07/01/19 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:40	1
Calcium	7.0		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:40	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	77		10	10	mg/L			07/03/19 18:02	1

## Client Sample ID: EB-4-6-27-19

Date Collected: 06/27/19 10:10

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-8

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/01/19 14:55	1
Fluoride	0.041	J	0.20	0.026	mg/L			07/01/19 14:55	1
Sulfate	<0.38		1.0	0.38	mg/L			07/01/19 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:43	1
Calcium	0.13	J	0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:43	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			07/03/19 15:20	1

## Client Sample ID: FB-4-6-27-19

Date Collected: 06/27/19 09:55

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-9

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/01/19 15:11	1
Fluoride	0.031	J	0.20	0.026	mg/L			07/01/19 15:11	1
Sulfate	<0.38		1.0	0.38	mg/L			07/01/19 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:47	1
Calcium	<0.12		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:47	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			07/03/19 15:20	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-92055-1  
SDG: App III

**Client Sample ID: DUP-3**

**Lab Sample ID: 180-92055-10**

Date Collected: 06/27/19 00:00

Matrix: Water

Date Received: 06/28/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			07/01/19 16:45	1
Fluoride	0.10	J	0.20	0.026	mg/L			07/01/19 16:45	1
Sulfate	1.9		1.0	0.38	mg/L			07/01/19 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:50	1
Calcium	2.9		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	41		10	10	mg/L			07/03/19 18:02	1

**Client Sample ID: DUP-4**

**Lab Sample ID: 180-92055-11**

Date Collected: 06/27/19 00:00

Matrix: Water

Date Received: 06/28/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			07/01/19 17:01	1
Fluoride	0.047	J	0.20	0.026	mg/L			07/01/19 17:01	1
Sulfate	0.70	J	1.0	0.38	mg/L			07/01/19 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030	^	0.080	0.030	mg/L		07/01/19 07:54	07/05/19 15:54	1
Calcium	7.2		0.50	0.12	mg/L		07/01/19 07:54	07/05/19 15:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		10	10	mg/L			07/03/19 15:20	1



# QC Sample Results

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

Job ID: 180-92055-1  
SDG: App III

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-283485/17**  
**Matrix: Water**  
**Analysis Batch: 283485**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/01/19 11:45	1
Fluoride	<0.026		0.20	0.026	mg/L			07/01/19 11:45	1
Sulfate	<0.38		1.0	0.38	mg/L			07/01/19 11:45	1

**Lab Sample ID: LCS 180-283485/16**  
**Matrix: Water**  
**Analysis Batch: 283485**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.8		mg/L		99	90 - 110
Fluoride	1.25	1.20		mg/L		96	90 - 110
Sulfate	25.0	25.0		mg/L		100	90 - 110

**Lab Sample ID: 180-92055-5 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 283485**

**Client Sample ID: GWC-32**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.1		25.0	26.8		mg/L		103	80 - 120
Fluoride	2.0		1.25	3.30		mg/L		104	80 - 120
Sulfate	9.9		25.0	35.5		mg/L		102	80 - 120

**Lab Sample ID: 180-92055-5 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 283485**

**Client Sample ID: GWC-32**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.1		25.0	26.2		mg/L		100	80 - 120	2	20
Fluoride	2.0		1.25	3.24		mg/L		100	80 - 120	2	20
Sulfate	9.9		25.0	34.6		mg/L		99	80 - 120	3	20

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-283521/1-A**  
**Matrix: Water**  
**Analysis Batch: 284092**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.12		0.50	0.12	mg/L		07/01/19 07:54	07/06/19 10:33	1

**Lab Sample ID: LCS 180-283521/2-A**  
**Matrix: Water**  
**Analysis Batch: 284092**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.27		mg/L		102	80 - 120
Calcium	25.0	26.3		mg/L		105	80 - 120

# QC Sample Results

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

Job ID: 180-92055-1  
SDG: App III

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

**Lab Sample ID: 180-92055-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-35**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	<0.030		1.25	1.15		mg/L		92	75 - 125
Calcium	2.0		25.0	27.4		mg/L		102	75 - 125

**Lab Sample ID: 180-92055-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-35**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	<0.030		1.25	1.16		mg/L		93	75 - 125	1	20
Calcium	2.0		25.0	27.8		mg/L		103	75 - 125	1	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-283618/2**  
**Matrix: Water**  
**Analysis Batch: 283618**

**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			07/01/19 18:25	1

**Lab Sample ID: LCS 180-283618/1**  
**Matrix: Water**  
**Analysis Batch: 283618**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	201	208		mg/L		103	80 - 120

**Lab Sample ID: MB 180-283889/2**  
**Matrix: Water**  
**Analysis Batch: 283889**

**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			07/03/19 14:22	1

**Lab Sample ID: LCS 180-283889/1**  
**Matrix: Water**  
**Analysis Batch: 283889**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	201	240		mg/L		119	80 - 120

**Lab Sample ID: MB 180-283897/2**  
**Matrix: Water**  
**Analysis Batch: 283897**

**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			07/03/19 15:20	1

# QC Sample Results

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

Job ID: 180-92055-1  
 SDG: App III

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-283897/1**  
**Matrix: Water**  
**Analysis Batch: 283897**

**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	201	170		mg/L		85	80 - 120

**Lab Sample ID: MB 180-283915/2**  
**Matrix: Water**  
**Analysis Batch: 283915**

**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			07/03/19 18:02	1

**Lab Sample ID: LCS 180-283915/1**  
**Matrix: Water**  
**Analysis Batch: 283915**

**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	201	176		mg/L		88	80 - 120

# QC Association Summary

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

Job ID: 180-92055-1  
SDG: App III

## HPLC/IC

### Analysis Batch: 283485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-1	GWC-35	Total/NA	Ground Water	300.0	
180-92055-2	GWC-34	Total/NA	Ground Water	300.0	
180-92055-3	GWC-33	Total/NA	Ground Water	300.0	
180-92055-4	GWC-23	Total/NA	Ground Water	300.0	
180-92055-5	GWC-32	Total/NA	Ground Water	300.0	
180-92055-6	GWC-30	Total/NA	Ground Water	300.0	
180-92055-7	GWC-18	Total/NA	Ground Water	300.0	
180-92055-8	EB-4-6-27-19	Total/NA	Water	300.0	
180-92055-9	FB-4-6-27-19	Total/NA	Water	300.0	
180-92055-10	DUP-3	Total/NA	Water	300.0	
180-92055-11	DUP-4	Total/NA	Water	300.0	
MB 180-283485/17	Method Blank	Total/NA	Water	300.0	
LCS 180-283485/16	Lab Control Sample	Total/NA	Water	300.0	
180-92055-5 MS	GWC-32	Total/NA	Ground Water	300.0	
180-92055-5 MSD	GWC-32	Total/NA	Ground Water	300.0	

## Metals

### Prep Batch: 283521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-1	GWC-35	Total Recoverable	Ground Water	3005A	
180-92055-2	GWC-34	Total Recoverable	Ground Water	3005A	
180-92055-3	GWC-33	Total Recoverable	Ground Water	3005A	
180-92055-4	GWC-23	Total Recoverable	Ground Water	3005A	
180-92055-5	GWC-32	Total Recoverable	Ground Water	3005A	
180-92055-6	GWC-30	Total Recoverable	Ground Water	3005A	
180-92055-7	GWC-18	Total Recoverable	Ground Water	3005A	
180-92055-8	EB-4-6-27-19	Total Recoverable	Water	3005A	
180-92055-9	FB-4-6-27-19	Total Recoverable	Water	3005A	
180-92055-10	DUP-3	Total Recoverable	Water	3005A	
180-92055-11	DUP-4	Total Recoverable	Water	3005A	
MB 180-283521/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283521/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-92055-1 MS	GWC-35	Total Recoverable	Ground Water	3005A	
180-92055-1 MSD	GWC-35	Total Recoverable	Ground Water	3005A	

### Analysis Batch: 284064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-1	GWC-35	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-2	GWC-34	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-3	GWC-33	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-4	GWC-23	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-5	GWC-32	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-6	GWC-30	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-7	GWC-18	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-8	EB-4-6-27-19	Total Recoverable	Water	EPA 6020	283521
180-92055-9	FB-4-6-27-19	Total Recoverable	Water	EPA 6020	283521
180-92055-10	DUP-3	Total Recoverable	Water	EPA 6020	283521
180-92055-11	DUP-4	Total Recoverable	Water	EPA 6020	283521
180-92055-1 MS	GWC-35	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-1 MSD	GWC-35	Total Recoverable	Ground Water	EPA 6020	283521

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-92055-1  
SDG: App III

## Metals

### Analysis Batch: 284092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-283521/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283521
LCS 180-283521/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283521

## General Chemistry

### Analysis Batch: 283618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-1	GWC-35	Total/NA	Ground Water	SM 2540C	
180-92055-2	GWC-34	Total/NA	Ground Water	SM 2540C	
180-92055-3	GWC-33	Total/NA	Ground Water	SM 2540C	
180-92055-4	GWC-23	Total/NA	Ground Water	SM 2540C	
MB 180-283618/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-283618/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 283889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-5	GWC-32	Total/NA	Ground Water	SM 2540C	
MB 180-283889/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-283889/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 283897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-6	GWC-30	Total/NA	Ground Water	SM 2540C	
180-92055-8	EB-4-6-27-19	Total/NA	Water	SM 2540C	
180-92055-9	FB-4-6-27-19	Total/NA	Water	SM 2540C	
180-92055-11	DUP-4	Total/NA	Water	SM 2540C	
MB 180-283897/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-283897/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 283915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-7	GWC-18	Total/NA	Ground Water	SM 2540C	
180-92055-10	DUP-3	Total/NA	Water	SM 2540C	
MB 180-283915/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-283915/1	Lab Control Sample	Total/NA	Water	SM 2540C	

**estAmerica Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Fax (850) 478-2671

### Chain of Custody Record



**Client Information**  
 Client Contact: *C. Porter, R. Walker*  
 Phone: *770 594-5998*  
 Company: Southern Company

**Lab PM:** Bortot, Veronica  
**E-Mail:** veronica.bortot@testamericainc.com

**Carrier Tracking No(s):** *ACC to TA-ATL cc*

**COC No:** \_\_\_\_\_  
**Page:** \_\_\_\_\_  
**Job #:** \_\_\_\_\_

**Due Date Requested:** \_\_\_\_\_  
**TAT Requested (days):** *3 Day*

**PO #:** SCS10347656  
**WO #:** \_\_\_\_\_

**Project #:** 40007709  
**SSOW#:** \_\_\_\_\_

**Address:** PO BOX 2641 GSC8  
**City:** Birmingham  
**State, Zip:** AL, 35291  
**Phone:** \_\_\_\_\_

**Email:** JAbraham@southernco.com  
**Project Name:** CCR - Plant Wansley - Landfill  
**Site:** Georgia

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:
						D	D	D	D	
<i>GWC-35</i>	<i>6-26-19</i>	<i>1040</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>APP III PLUS STATE METALS LIST</i>
<i>GWC-34</i>	<i>6-26-19</i>	<i>1150</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>GWC-33</i>	<i>6-26-19</i>	<i>1345</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>GWC-23</i>	<i>6-26-19</i>	<i>1246</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>GWC-32</i>	<i>6-27-19</i>	<i>1005</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>GWC-30</i>	<i>6-27-19</i>	<i>1110</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>GWC-18</i>	<i>6-27-19</i>	<i>1025</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>FB-4-G-27-19</i>	<i>6-27-19</i>	<i>1010</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>FB-4-G-27-19</i>	<i>6-27-19</i>	<i>0955</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>DUP-3</i>	<i>---</i>	<i>---</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	
<i>DUP-4</i>	<i>---</i>	<i>---</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Deliverable Requested:** I, II, III, IV, Other (specify) \_\_\_\_\_

**Empty Kit Relinquished by:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Relinquished by:** *[Signature]* **Date/Time:** *6-27-19 1515* **Company:** *ACC*

**Relinquished by:** *[Signature]* **Date/Time:** *6-27-19 1530* **Company:** *ETA*

**Relinquished by:** *[Signature]* **Date/Time:** *6-28-19* **Company:** *ETA*

**Custody Seals Intact:**  Yes  No **Custody Seal No.:** \_\_\_\_\_

**Special Instructions/QC Requirements:** \_\_\_\_\_

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Carrier Tracking No(s):** *ACC to TA-ATL cc*

**Analysis Requested:** \_\_\_\_\_

**Preservation Code:** \_\_\_\_\_

**Barcode:** 180-92055 Chain of Custody

**Special Instructions/Note:** V - MCAA, W - pH 4-5, Z - other (specify)



En  
Te

ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7068 REF:  
INU:  
PO:



180-92055 Waybill



1 of 2  
TRK# 4651 0082 5408  
0201  
## MASTER ##

FRI - 28 JUN 3:00P  
STANDARD OVERNIGHT

**NA AGCA**

15238  
PA-US PIT

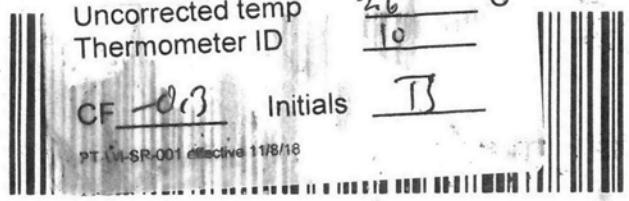
Uncorrected temp  
Thermometer ID

26 °C  
10

CF 013

Initials TJ

PT 11-SR-001 effective 11/8/18



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

87:90  
5419  
06:28  
A  
16:00  
7  
Environment  
LE  
ing

ORIGIN ID: MULA (678) 966-9991  
 GEORGE TAYLOR  
 EUROPE INSTESTAMERICA, ATLANTA  
 6500 MCDONOUGH DRIVE  
 NORCROSS, GA 30093  
 UNITED STATES US

SHIP DATE: 27 JUN 19  
 ACTWGT: 54.25 LB  
 CAD: 859116/CAFE3211

BILL THIRD PARTY

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7058  
 INH:  
 PO:



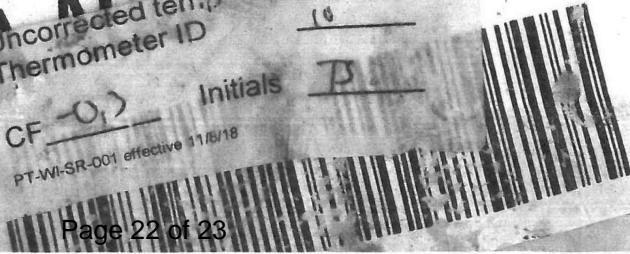
**FRI - 29 JUN 3:00P**  
**ANDALIS OVERNIGHT**

2 of 2  
 MPS# 4651 0082 5419  
 0263  
 Mstr# 4651 0082 5408

**NA**  
 Uncorrected temp  
 Thermometer ID

CF -0.3 Initials P

PT-WI-SR-001 effective 11/8/18





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-92055-1  
SDG Number: App III

**Login Number: 92055**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 180-92055-2

Laboratory Sample Delivery Group: State Metals  
Client Project/Site: CCR - Plant Wansley

**For:**

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

Attn: Joju Abraham



Authorized for release by:  
7/9/2019 12:08:42 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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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# Definitions/Glossary

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

Job ID: 180-92055-2  
SDG: State Metals

## Qualifiers

### Metals

Qualifier	Qualifier Description
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.

## 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

Job ID: 180-92055-2  
 SDG: State Metals

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-20
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-20
Florida	NELAP		E871008	06-30-20
Illinois	NELAP	5	200005	06-30-20
Illinois	NELAP		004375	06-30-20
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-20
Minnesota	NELAP Secondary AB	5	042-999-482	12-31-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-20
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
Rhode Island	State		LAO00362	12-30-19
Rhode Island	State Program	1	LAO00362	12-30-19
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P-Soil-01	06-26-22
Utah	NELAP	8	PA001462015-4	05-31-20
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19

# Sample Summary

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

Job ID: 180-92055-2  
SDG: State Metals

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-92055-1	GWC-35	Ground Water	06/26/19 10:40	06/28/19 09:00	
180-92055-2	GWC-34	Ground Water	06/26/19 11:50	06/28/19 09:00	
180-92055-3	GWC-33	Ground Water	06/26/19 13:45	06/28/19 09:00	
180-92055-4	GWC-23	Ground Water	06/26/19 12:46	06/28/19 09:00	
180-92055-5	GWC-32	Ground Water	06/27/19 10:05	06/28/19 09:00	
180-92055-6	GWC-30	Ground Water	06/27/19 11:10	06/28/19 09:00	
180-92055-7	GWC-18	Ground Water	06/27/19 10:25	06/28/19 09:00	
180-92055-8	EB-4-6-27-19	Water	06/27/19 10:10	06/28/19 09:00	
180-92055-9	FB-4-6-27-19	Water	06/27/19 09:55	06/28/19 09:00	
180-92055-10	DUP-3	Water	06/27/19 00:00	06/28/19 09:00	
180-92055-11	DUP-4	Water	06/27/19 00:00	06/28/19 09:00	

# Method Summary

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

Job ID: 180-92055-2  
SDG: State Metals

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

Job ID: 180-92055-2  
SDG: State Metals

## Client Sample ID: GWC-35

Date Collected: 06/26/19 10:40

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:02	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:33	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-34

Date Collected: 06/26/19 11:50

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:16	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:34	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-33

Date Collected: 06/26/19 13:45

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:19	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:35	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-23

Date Collected: 06/26/19 12:46

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:23	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:37	RJR	TAL PIT
Instrument ID: HGY										



# Lab Chronicle

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

Job ID: 180-92055-2  
SDG: State Metals

## Client Sample ID: GWC-32

Date Collected: 06/27/19 10:05

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:38	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-30

Date Collected: 06/27/19 11:10

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:36	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:43	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-18

Date Collected: 06/27/19 10:25

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:40	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:44	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: EB-4-6-27-19

Date Collected: 06/27/19 10:10

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92055-8

Matrix: 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	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:43	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:45	RJR	TAL PIT
Instrument ID: HGY										

# Lab Chronicle

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

Job ID: 180-92055-2  
SDG: State Metals

**Client Sample ID: FB-4-6-27-19**

**Lab Sample ID: 180-92055-9**

**Date Collected: 06/27/19 09:55**

**Matrix: Water**

**Date Received: 06/28/19 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	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:47	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:46	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: DUP-3**

**Lab Sample ID: 180-92055-10**

**Date Collected: 06/27/19 00:00**

**Matrix: Water**

**Date Received: 06/28/19 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	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:50	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:47	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: DUP-4**

**Lab Sample ID: 180-92055-11**

**Date Collected: 06/27/19 00:00**

**Matrix: Water**

**Date Received: 06/28/19 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	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:54	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:49	RJR	TAL PIT
Instrument ID: HGY										

**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

KAK = Kayla Kalamasz

RJR = Ron Rosenbaum

Batch Type: Analysis

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

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

Job ID: 180-92055-2  
SDG: State Metals

**Client Sample ID: GWC-35**

**Lab Sample ID: 180-92055-1**

Date Collected: 06/26/19 10:40

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:02	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:02	1
<b>Barium</b>	<b>0.021</b>	<b>B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:02	1
<b>Beryllium</b>	<b>0.00022</b>	<b>J</b>	0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:02	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:02	1
<b>Cobalt</b>	<b>0.00028</b>	<b>J</b>	0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:02	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:02	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:02	1
<b>Nickel</b>	<b>0.0013</b>		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:02	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:02	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:02	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:02	1
<b>Thallium</b>	<b>0.00019</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:02	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:02	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:02	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		07/03/19 17:24	07/04/19 14:33	1

**Client Sample ID: GWC-34**

**Lab Sample ID: 180-92055-2**

Date Collected: 06/26/19 11:50

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:16	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:16	1
<b>Barium</b>	<b>0.011</b>	<b>B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:16	1
<b>Beryllium</b>	<b>0.00032</b>	<b>J</b>	0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:16	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:16	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:16	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:16	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:16	1
<b>Nickel</b>	<b>0.00047</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:16	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:16	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:16	1
<b>Thallium</b>	<b>0.00014</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:16	1
<b>Vanadium</b>	<b>0.0020</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:16	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:16	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		07/03/19 17:24	07/04/19 14:34	1

# Client Sample Results

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

Job ID: 180-92055-2  
SDG: State Metals

**Client Sample ID: GWC-33**

**Lab Sample ID: 180-92055-3**

Date Collected: 06/26/19 13:45

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:19	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:19	1
<b>Barium</b>	<b>0.0057</b>	<b>J B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:19	1
<b>Beryllium</b>	<b>0.00027</b>	<b>J</b>	0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:19	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:19	1
<b>Cobalt</b>	<b>0.0025</b>		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:19	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:19	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:19	1
<b>Nickel</b>	<b>0.00068</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:19	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:19	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:19	1
<b>Thallium</b>	<b>0.00020</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:19	1
<b>Vanadium</b>	<b>0.0017</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:19	1
<b>Zinc</b>	<b>0.0056</b>		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:19	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		07/03/19 17:24	07/04/19 14:35	1

**Client Sample ID: GWC-23**

**Lab Sample ID: 180-92055-4**

Date Collected: 06/26/19 12:46

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:23	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:23	1
<b>Barium</b>	<b>0.0041</b>	<b>J B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:23	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:23	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:23	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:23	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:23	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:23	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:23	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:23	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:23	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:23	1
<b>Vanadium</b>	<b>0.0019</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:23	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:23	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		07/03/19 17:24	07/04/19 14:37	1

# Client Sample Results

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

Job ID: 180-92055-2  
SDG: State Metals

**Client Sample ID: GWC-32**

**Lab Sample ID: 180-92055-5**

Date Collected: 06/27/19 10:05

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:33	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:33	1
Barium	<0.0015		0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:33	1
<b>Beryllium</b>	<b>0.0017</b>		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:33	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:33	1
<b>Cobalt</b>	<b>0.00017</b>	<b>J</b>	0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:33	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:33	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:33	1
<b>Nickel</b>	<b>0.00059</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:33	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:33	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:33	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:33	1
<b>Vanadium</b>	<b>0.0021</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:33	1
<b>Zinc</b>	<b>0.082</b>		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:33	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		07/03/19 17:24	07/04/19 14:38	1

**Client Sample ID: GWC-30**

**Lab Sample ID: 180-92055-6**

Date Collected: 06/27/19 11:10

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:36	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:36	1
<b>Barium</b>	<b>0.0071</b>	<b>J B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:36	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:36	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:36	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:36	1
<b>Chromium</b>	<b>0.0025</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:36	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:36	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:36	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:36	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:36	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:36	1
<b>Vanadium</b>	<b>0.0029</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:36	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:36	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		07/03/19 17:24	07/04/19 14:43	1

# Client Sample Results

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

Job ID: 180-92055-2  
SDG: State Metals

**Client Sample ID: GWC-18**

**Lab Sample ID: 180-92055-7**

Date Collected: 06/27/19 10:25

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:40	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:40	1
<b>Barium</b>	<b>0.035</b>	<b>B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:40	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:40	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:40	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:40	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:40	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:40	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:40	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:40	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:40	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:40	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:40	1
<b>Vanadium</b>	<b>0.0031</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:40	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:40	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		07/03/19 17:24	07/04/19 14:44	1

**Client Sample ID: EB-4-6-27-19**

**Lab Sample ID: 180-92055-8**

Date Collected: 06/27/19 10:10

Matrix: Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:43	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:43	1
Barium	<0.0015		0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:43	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:43	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:43	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:43	1
<b>Chromium</b>	<b>0.0021</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:43	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:43	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:43	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:43	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:43	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:43	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:43	1
<b>Vanadium</b>	<b>0.0018</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:43	1
<b>Zinc</b>	<b>0.0084</b>		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:43	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		07/03/19 17:24	07/04/19 14:45	1

# Client Sample Results

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

Job ID: 180-92055-2  
SDG: State Metals

**Client Sample ID: FB-4-6-27-19**

**Lab Sample ID: 180-92055-9**

Date Collected: 06/27/19 09:55

Matrix: Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:47	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:47	1
Barium	<0.0015		0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:47	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:47	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:47	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:47	1
<b>Chromium</b>	<b>0.0021</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:47	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:47	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:47	1
<b>Lead</b>	<b>0.00016</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:47	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:47	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:47	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:47	1
<b>Vanadium</b>	<b>0.0016</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:47	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 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		07/03/19 17:24	07/04/19 14:46	1

**Client Sample ID: DUP-3**

**Lab Sample ID: 180-92055-10**

Date Collected: 06/27/19 00:00

Matrix: Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:50	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:50	1
<b>Barium</b>	<b>0.011</b>	<b>B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:50	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:50	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:50	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:50	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:50	1
<b>Copper</b>	<b>0.00069</b>	<b>J</b>	0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:50	1
<b>Nickel</b>	<b>0.00051</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:50	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:50	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:50	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:50	1
<b>Vanadium</b>	<b>0.0022</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:50	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 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		07/03/19 17:24	07/04/19 14:47	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-92055-2  
SDG: State Metals

**Client Sample ID: DUP-4**

**Lab Sample ID: 180-92055-11**

**Date Collected: 06/27/19 00:00**

**Matrix: Water**

**Date Received: 06/28/19 09:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:54	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:54	1
<b>Barium</b>	<b>0.035</b>	<b>B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:54	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:54	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:54	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:54	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:54	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:54	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:54	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:54	1
<b>Vanadium</b>	<b>0.0035</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:54	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 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		07/03/19 17:24	07/04/19 14:49	1



# QC Sample Results

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

Job ID: 180-92055-2  
SDG: State Metals

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: LCS 180-283521/2-A**  
**Matrix: Water**  
**Analysis Batch: 284092**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.250	0.253		mg/L		101	80 - 120
Arsenic	1.00	1.08		mg/L		108	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.505		mg/L		101	80 - 120
Cadmium	0.500	0.524		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Chromium	0.500	0.539		mg/L		108	80 - 120
Copper	0.500	0.547		mg/L		109	80 - 120
Nickel	0.500	0.554		mg/L		111	80 - 120
Lead	0.500	0.532		mg/L		106	80 - 120
Antimony	0.250	0.273		mg/L		109	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Vanadium	0.500	0.537		mg/L		107	80 - 120
Zinc	0.250	0.278		mg/L		111	80 - 120

**Lab Sample ID: 180-92055-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-35**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Silver	<0.00012		0.250	0.251		mg/L		100	75 - 125
Arsenic	<0.00032		1.00	0.910		mg/L		91	75 - 125
Barium	0.021	B	1.00	1.02		mg/L		100	75 - 125
Beryllium	0.00022	J	0.500	0.484		mg/L		97	75 - 125
Cadmium	<0.00013		0.500	0.521		mg/L		104	75 - 125
Cobalt	0.00028	J	0.500	0.457		mg/L		91	75 - 125
Chromium	0.0022		0.500	0.519		mg/L		103	75 - 125
Copper	<0.00063		0.500	0.452		mg/L		90	75 - 125
Nickel	0.0013		0.500	0.517		mg/L		103	75 - 125
Lead	<0.00013		0.500	0.524		mg/L		105	75 - 125
Antimony	<0.00038		0.250	0.272		mg/L		109	75 - 125
Selenium	<0.0026		1.00	1.04		mg/L		104	75 - 125
Thallium	0.00019	J	1.00	1.13		mg/L		113	75 - 125
Vanadium	0.0015		0.500	0.516		mg/L		103	75 - 125
Zinc	<0.0032		0.250	0.232		mg/L		93	75 - 125

**Lab Sample ID: 180-92055-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-35**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Silver	<0.00012		0.250	0.253		mg/L		101	75 - 125	1	20
Arsenic	<0.00032		1.00	0.940		mg/L		94	75 - 125	3	20
Barium	0.021	B	1.00	1.02		mg/L		100	75 - 125	0	20
Beryllium	0.00022	J	0.500	0.487		mg/L		97	75 - 125	0	20
Cadmium	<0.00013		0.500	0.524		mg/L		105	75 - 125	1	20
Cobalt	0.00028	J	0.500	0.466		mg/L		93	75 - 125	2	20
Chromium	0.0022		0.500	0.519		mg/L		103	75 - 125	0	20

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

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

Job ID: 180-92055-2  
 SDG: State Metals

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

Lab Sample ID: 180-92055-1 MSD  
 Matrix: Ground Water  
 Analysis Batch: 284064

Client Sample ID: GWC-35  
 Prep Type: Total Recoverable  
 Prep Batch: 283521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	<0.00063		0.500	0.465		mg/L		93	75 - 125	3	20
Nickel	0.0013		0.500	0.520		mg/L		104	75 - 125	1	20
Lead	<0.00013		0.500	0.530		mg/L		106	75 - 125	1	20
Antimony	<0.00038		0.250	0.274		mg/L		110	75 - 125	1	20
Selenium	<0.0026		1.00	1.06		mg/L		106	75 - 125	1	20
Thallium	0.00019	J	1.00	1.13		mg/L		113	75 - 125	0	20
Vanadium	0.0015		0.500	0.521		mg/L		104	75 - 125	1	20
Zinc	<0.0032		0.250	0.238		mg/L		95	75 - 125	2	20

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-283910/1-A  
 Matrix: Water  
 Analysis Batch: 283958

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 283910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		07/03/19 17:24	07/04/19 14:13	1

Lab Sample ID: LCS 180-283910/2-A  
 Matrix: Water  
 Analysis Batch: 283958

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 283910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00244		mg/L		97	80 - 120

# QC Association Summary

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

Job ID: 180-92055-2  
SDG: State Metals

## Metals

### Prep Batch: 283521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-1	GWC-35	Total Recoverable	Ground Water	3005A	
180-92055-2	GWC-34	Total Recoverable	Ground Water	3005A	
180-92055-3	GWC-33	Total Recoverable	Ground Water	3005A	
180-92055-4	GWC-23	Total Recoverable	Ground Water	3005A	
180-92055-5	GWC-32	Total Recoverable	Ground Water	3005A	
180-92055-6	GWC-30	Total Recoverable	Ground Water	3005A	
180-92055-7	GWC-18	Total Recoverable	Ground Water	3005A	
180-92055-8	EB-4-6-27-19	Total Recoverable	Water	3005A	
180-92055-9	FB-4-6-27-19	Total Recoverable	Water	3005A	
180-92055-10	DUP-3	Total Recoverable	Water	3005A	
180-92055-11	DUP-4	Total Recoverable	Water	3005A	
LCS 180-283521/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-92055-1 MS	GWC-35	Total Recoverable	Ground Water	3005A	
180-92055-1 MSD	GWC-35	Total Recoverable	Ground Water	3005A	

### Prep Batch: 283910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-1	GWC-35	Total/NA	Ground Water	7470A	
180-92055-2	GWC-34	Total/NA	Ground Water	7470A	
180-92055-3	GWC-33	Total/NA	Ground Water	7470A	
180-92055-4	GWC-23	Total/NA	Ground Water	7470A	
180-92055-5	GWC-32	Total/NA	Ground Water	7470A	
180-92055-6	GWC-30	Total/NA	Ground Water	7470A	
180-92055-7	GWC-18	Total/NA	Ground Water	7470A	
180-92055-8	EB-4-6-27-19	Total/NA	Water	7470A	
180-92055-9	FB-4-6-27-19	Total/NA	Water	7470A	
180-92055-10	DUP-3	Total/NA	Water	7470A	
180-92055-11	DUP-4	Total/NA	Water	7470A	
MB 180-283910/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-283910/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 283958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-1	GWC-35	Total/NA	Ground Water	EPA 7470A	283910
180-92055-2	GWC-34	Total/NA	Ground Water	EPA 7470A	283910
180-92055-3	GWC-33	Total/NA	Ground Water	EPA 7470A	283910
180-92055-4	GWC-23	Total/NA	Ground Water	EPA 7470A	283910
180-92055-5	GWC-32	Total/NA	Ground Water	EPA 7470A	283910
180-92055-6	GWC-30	Total/NA	Ground Water	EPA 7470A	283910
180-92055-7	GWC-18	Total/NA	Ground Water	EPA 7470A	283910
180-92055-8	EB-4-6-27-19	Total/NA	Water	EPA 7470A	283910
180-92055-9	FB-4-6-27-19	Total/NA	Water	EPA 7470A	283910
180-92055-10	DUP-3	Total/NA	Water	EPA 7470A	283910
180-92055-11	DUP-4	Total/NA	Water	EPA 7470A	283910
MB 180-283910/1-A	Method Blank	Total/NA	Water	EPA 7470A	283910
LCS 180-283910/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	283910

### Analysis Batch: 284064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-1	GWC-35	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-2	GWC-34	Total Recoverable	Ground Water	EPA 6020	283521

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-92055-2  
SDG: State Metals

## Metals (Continued)

### Analysis Batch: 284064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92055-3	GWC-33	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-4	GWC-23	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-5	GWC-32	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-6	GWC-30	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-7	GWC-18	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-8	EB-4-6-27-19	Total Recoverable	Water	EPA 6020	283521
180-92055-9	FB-4-6-27-19	Total Recoverable	Water	EPA 6020	283521
180-92055-10	DUP-3	Total Recoverable	Water	EPA 6020	283521
180-92055-11	DUP-4	Total Recoverable	Water	EPA 6020	283521
180-92055-1 MS	GWC-35	Total Recoverable	Ground Water	EPA 6020	283521
180-92055-1 MSD	GWC-35	Total Recoverable	Ground Water	EPA 6020	283521

### Analysis Batch: 284092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-283521/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283521

**estAmerica Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Fax (850) 478-2671

### Chain of Custody Record



**Client Information**  
 Client Contact: *C. Porter, R. Walker*  
 Phone: *770 594-5998*  
 Company: Southern Company

**Lab PM:** Bortot, Veronica  
**E-Mail:** veronica.bortot@testamericainc.com

**Carrier Tracking No(s):** *ACC to TA-ATL cc*

**COC No:** \_\_\_\_\_  
**Page:** \_\_\_\_\_  
**Job #:** \_\_\_\_\_

**Due Date Requested:** \_\_\_\_\_  
**TAT Requested (days):** *3 Day*

**PO #:** SCS10347656  
**WO #:** \_\_\_\_\_

**Project #:** 40007709  
**SSOW#:** \_\_\_\_\_

**Email:** JAbraham@southernco.com  
**Project Name:** CCR - Plant Wansley - Landfill  
**Site:** Georgia

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Wastewater, Solid, Other)	Preservation Code	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:
						D	D	D	D	
<i>GWC-35</i>	<i>6-26-19</i>	<i>1040</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>APP III PLUS STATE METALS LIST</i>
<i>GWC-34</i>	<i>6-26-19</i>	<i>1150</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>GWC-33</i>	<i>6-26-19</i>	<i>1345</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>GWC-23</i>	<i>6-26-19</i>	<i>1246</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>GWC-32</i>	<i>6-27-19</i>	<i>1005</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>GWC-30</i>	<i>6-27-19</i>	<i>1110</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>GWC-18</i>	<i>6-27-19</i>	<i>1025</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>FB-4-G-27-19</i>	<i>6-27-19</i>	<i>1010</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>FB-4-G-27-19</i>	<i>6-27-19</i>	<i>0955</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>DUP-3</i>	<i>---</i>	<i>---</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>DUP-4</i>	<i>---</i>	<i>---</i>	<i>G</i>	<i>Water</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	

**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:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Relinquished by:** *[Signature]* **Date/Time:** *6-27-19 1515* **Company:** *ACC*

**Relinquished by:** *[Signature]* **Date/Time:** *6-27-19 1530* **Company:** *ETA*

**Relinquished by:** *[Signature]* **Date/Time:** *6-28-19* **Company:** *ETA*

**Custody Seals Intact:**  Yes  No **Custody Seal No.:** \_\_\_\_\_

**Cooler Temperature(s) °C and Other Remarks:** \_\_\_\_\_



V - MCAA  
 W - pH 4-5  
 Z - other (specify)  
 K - EDTA  
 L - EDA  
 Other: \_\_\_\_\_



En  
Te

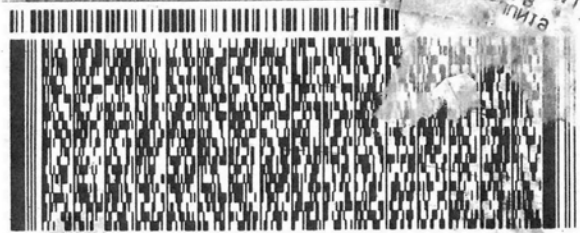
ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7068 REF:  
INU:  
PO:



180-92055 Waybill



1 of 2  
TRK# 4651 0082 5408  
0201  
## MASTER ##

FRI - 28 JUN 3:00P  
STANDARD OVERNIGHT

**NA AGCA**

15238  
PA-US PIT

Uncorrected temp Thermometer ID 26 °C  
10  
 CF 013 Initials TJ  
 PT 11-SR-001 effective 11/8/18

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

INS  
 87:90  
 5419  
 06:28  
 A  
 16:00  
 7  
 Environment  
 LE  
 ing

ORIGIN ID: MULA (678) 966-9991  
 GEORGE TAYLOR  
 EUROPE INSTESTAMERICA, ATLANTA  
 6500 MCDONOUGH DRIVE  
 NORCROSS, GA 30093  
 UNITED STATES US

SHIP DATE: 27 JUN 19  
 ACTWGT: 54.25 LB  
 CAD: 859116/CAFE3211

BILL THIRD PARTY

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7058  
 INH:  
 PO:



FedEx



FRI - 29 JUN 3:00P  
 ANDA: OVERNIGHT

2 of 2  
 MPS# 4651 0082 5419  
 0263  
 Mstr# 4651 0082 5408

**NA**  
 Uncorrected temp  
 Thermometer ID

CF -0.3 Initials P

PT-WI-SR-001 effective 11/6/16



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-92055-2

SDG Number: State Metals

**Login Number: 92055**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	



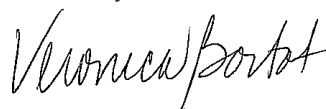
## ANALYTICAL REPORT

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

Laboratory Job ID: 180-92056-1  
Laboratory Sample Delivery Group: App III  
Client Project/Site: CCR - Plant Wansley

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

Attn: Joju Abraham



Authorized for release by:  
7/9/2019 2:04:50 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

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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

Job ID: 180-92056-1  
SDG: App III

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**Job ID: 180-92056-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-92056-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/28/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3° C and 2.5° 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.

**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

Job ID: 180-92056-1  
SDG: App III

## 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.

### 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)
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

Job ID: 180-92056-1  
 SDG: App III

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-20
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-20
Florida	NELAP		E871008	06-30-20
Illinois	NELAP	5	200005	06-30-20
Illinois	NELAP		004375	06-30-20
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-20
Minnesota	NELAP Secondary AB	5	042-999-482	12-31-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-20
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
Rhode Island	State		LAO00362	12-30-19
Rhode Island	State Program	1	LAO00362	12-30-19
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P-Soil-01	06-26-22
Utah	NELAP	8	PA001462015-4	05-31-20
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19

# Sample Summary

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

Job ID: 180-92056-1  
SDG: App III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-92056-1	GWC-31	Ground Water	06/26/19 10:20	06/28/19 09:00	
180-92056-2	EB-3-6-26-19	Water	06/26/19 10:30	06/28/19 09:00	
180-92056-3	GWC-24	Ground Water	06/26/19 12:20	06/28/19 09:00	
180-92056-4	GWC-27	Ground Water	06/26/19 13:55	06/28/19 09:00	
180-92056-5	GWC-11	Ground Water	06/26/19 10:25	06/28/19 09:00	
180-92056-6	GWC-10	Ground Water	06/26/19 10:55	06/28/19 09:00	
180-92056-7	GWC-5	Ground Water	06/26/19 13:15	06/28/19 09:00	
180-92056-8	GWC-6	Ground Water	06/26/19 14:05	06/28/19 09:00	
180-92056-9	GWC-12	Ground Water	06/26/19 11:10	06/28/19 09:00	
180-92056-10	GWC-19	Ground Water	06/26/19 15:01	06/28/19 09:00	
180-92056-11	FB-3-6-26-19	Water	06/26/19 11:30	06/28/19 09:00	



# Method Summary

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

Job ID: 180-92056-1  
SDG: App III

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

#### Protocol References:

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

Job ID: 180-92056-1  
SDG: App III

## Client Sample ID: GWC-31

Date Collected: 06/26/19 10:20

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-1

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			283622	07/02/19 10:54	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 16:41	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284092	07/06/19 09:55	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283618	07/01/19 18:25	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: EB-3-6-26-19

Date Collected: 06/26/19 10:30

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-2

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			283622	07/02/19 10:38	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 16:54	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284092	07/06/19 10:09	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283618	07/01/19 18:25	TAM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-24

Date Collected: 06/26/19 12:20

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-3

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			283485	07/01/19 17:17	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 16:58	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284092	07/06/19 10:12	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										



# Lab Chronicle

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

Job ID: 180-92056-1  
SDG: App III

## Client Sample ID: GWC-27

Date Collected: 06/26/19 13:55

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-4

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			283485	07/01/19 18:20	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:01	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284092	07/06/19 10:16	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-11

Date Collected: 06/26/19 10:25

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-5

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			283485	07/01/19 18:36	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:05	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284092	07/06/19 10:26	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-10

Date Collected: 06/26/19 10:55

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-6

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			283485	07/01/19 18:52	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

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

Job ID: 180-92056-1  
SDG: App III

## Client Sample ID: GWC-5

Date Collected: 06/26/19 13:15

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-7

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			283485	07/01/19 19:08	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-6

Date Collected: 06/26/19 14:05

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-8

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			283485	07/01/19 19:23	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-12

Date Collected: 06/26/19 11:10

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-9

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			283622	07/02/19 11:41	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-19

Date Collected: 06/26/19 15:01

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-10

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			283622	07/02/19 11:57	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-92056-1  
 SDG: App III

**Client Sample ID: FB-3-6-26-19**

**Lab Sample ID: 180-92056-11**

**Date Collected: 06/26/19 11:30**

**Matrix: Water**

**Date Received: 06/28/19 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	300.0		1			283622	07/02/19 12:13	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	283889	07/03/19 14:22	AVS	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

MJH = Matthew Hartman

RSK = Robert Kurtz

TAM = Tessa Mastalski

WTR = Bill Reinheimer

# Client Sample Results

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

Job ID: 180-92056-1  
SDG: App III

**Client Sample ID: GWC-31**

**Lab Sample ID: 180-92056-1**

Date Collected: 06/26/19 10:20

Matrix: Ground Water

Date Received: 06/28/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			07/02/19 10:54	1
Fluoride	1.3		0.20	0.026	mg/L			07/02/19 10:54	1
Sulfate	9.9		1.0	0.38	mg/L			07/02/19 10:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:56	07/06/19 09:55	1
Calcium	11		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 16:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			07/01/19 18:25	1

**Client Sample ID: EB-3-6-26-19**

**Lab Sample ID: 180-92056-2**

Date Collected: 06/26/19 10:30

Matrix: Water

Date Received: 06/28/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/02/19 10:38	1
Fluoride	0.030	J	0.20	0.026	mg/L			07/02/19 10:38	1
Sulfate	<0.38		1.0	0.38	mg/L			07/02/19 10:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.030	J	0.080	0.030	mg/L		07/01/19 07:56	07/06/19 10:09	1
Calcium	<0.12		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 16:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			07/01/19 18:25	1

**Client Sample ID: GWC-24**

**Lab Sample ID: 180-92056-3**

Date Collected: 06/26/19 12:20

Matrix: Ground Water

Date Received: 06/28/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.4		1.0	0.71	mg/L			07/01/19 17:17	1
Fluoride	0.040	J	0.20	0.026	mg/L			07/01/19 17:17	1
Sulfate	0.71	J	1.0	0.38	mg/L			07/01/19 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:56	07/06/19 10:12	1
Calcium	0.34	J	0.50	0.12	mg/L		07/01/19 07:56	07/05/19 16:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			07/03/19 14:22	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-92056-1  
SDG: App III

## Client Sample ID: GWC-27

Date Collected: 06/26/19 13:55

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-4

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		1.0	0.71	mg/L			07/01/19 18:20	1
Fluoride	0.85		0.20	0.026	mg/L			07/01/19 18:20	1
Sulfate	3.2		1.0	0.38	mg/L			07/01/19 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:56	07/06/19 10:16	1
Calcium	3.7		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:01	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			07/03/19 14:22	1

## Client Sample ID: GWC-11

Date Collected: 06/26/19 10:25

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-5

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.71	mg/L			07/01/19 18:36	1
Fluoride	0.096	J	0.20	0.026	mg/L			07/01/19 18:36	1
Sulfate	0.47	J	1.0	0.38	mg/L			07/01/19 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:56	07/06/19 10:26	1
Calcium	11		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:05	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	87		10	10	mg/L			07/03/19 14:22	1

## Client Sample ID: GWC-10

Date Collected: 06/26/19 10:55

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-6

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			07/01/19 18:52	1
Fluoride	0.68		0.20	0.026	mg/L			07/01/19 18:52	1
Sulfate	13		1.0	0.38	mg/L			07/01/19 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.053	J	0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:15	1
Calcium	16		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		10	10	mg/L			07/03/19 14:22	1

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# Client Sample Results

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

Job ID: 180-92056-1  
SDG: App III

**Client Sample ID: GWC-5**  
Date Collected: 06/26/19 13:15  
Date Received: 06/28/19 09:00

**Lab Sample ID: 180-92056-7**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			07/01/19 19:08	1
Fluoride	0.081	J	0.20	0.026	mg/L			07/01/19 19:08	1
Sulfate	31		1.0	0.38	mg/L			07/01/19 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.045	J	0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:18	1
Calcium	39		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			07/03/19 14:22	1

**Client Sample ID: GWC-6**  
Date Collected: 06/26/19 14:05  
Date Received: 06/28/19 09:00

**Lab Sample ID: 180-92056-8**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.0		1.0	0.71	mg/L			07/01/19 19:23	1
Fluoride	0.059	J	0.20	0.026	mg/L			07/01/19 19:23	1
Sulfate	9.3		1.0	0.38	mg/L			07/01/19 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.044	J	0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:22	1
Calcium	12		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	41		10	10	mg/L			07/03/19 14:22	1

**Client Sample ID: GWC-12**  
Date Collected: 06/26/19 11:10  
Date Received: 06/28/19 09:00

**Lab Sample ID: 180-92056-9**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		1.0	0.71	mg/L			07/02/19 11:41	1
Fluoride	0.16	J	0.20	0.026	mg/L			07/02/19 11:41	1
Sulfate	25		1.0	0.38	mg/L			07/02/19 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.057	J	0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:25	1
Calcium	43		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			07/03/19 14:22	1

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# Client Sample Results

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

Job ID: 180-92056-1  
SDG: App III

## Client Sample ID: GWC-19

Date Collected: 06/26/19 15:01

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-10

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			07/02/19 11:57	1
Fluoride	0.046	J	0.20	0.026	mg/L			07/02/19 11:57	1
Sulfate	0.88	J	1.0	0.38	mg/L			07/02/19 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.036	J	0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:29	1
Calcium	7.3		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:29	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			07/03/19 14:22	1

## Client Sample ID: FB-3-6-26-19

Date Collected: 06/26/19 11:30

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-11

Matrix: Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/02/19 12:13	1
Fluoride	0.043	J	0.20	0.026	mg/L			07/02/19 12:13	1
Sulfate	0.68	J	1.0	0.38	mg/L			07/02/19 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:32	1
Calcium	<0.12		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:32	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			07/03/19 14:22	1

# QC Sample Results

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

Job ID: 180-92056-1  
SDG: App III

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-283485/17**  
**Matrix: Water**  
**Analysis Batch: 283485**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/01/19 11:45	1
Fluoride	<0.026		0.20	0.026	mg/L			07/01/19 11:45	1
Sulfate	<0.38		1.0	0.38	mg/L			07/01/19 11:45	1

**Lab Sample ID: LCS 180-283485/16**  
**Matrix: Water**  
**Analysis Batch: 283485**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.8		mg/L		99	90 - 110
Fluoride	1.25	1.20		mg/L		96	90 - 110
Sulfate	25.0	25.0		mg/L		100	90 - 110

**Lab Sample ID: MB 180-283622/6**  
**Matrix: Water**  
**Analysis Batch: 283622**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			07/02/19 07:28	1
Fluoride	<0.026		0.20	0.026	mg/L			07/02/19 07:28	1
Sulfate	<0.38		1.0	0.38	mg/L			07/02/19 07:28	1

**Lab Sample ID: LCS 180-283622/5**  
**Matrix: Water**  
**Analysis Batch: 283622**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.0		mg/L		100	90 - 110
Fluoride	1.25	1.22		mg/L		97	90 - 110
Sulfate	25.0	25.0		mg/L		100	90 - 110

**Lab Sample ID: 180-92056-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 283622**

**Client Sample ID: GWC-31**  
**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	26.5		mg/L		100	80 - 120
Fluoride	1.3		1.25	2.65		mg/L		104	80 - 120
Sulfate	9.9		25.0	35.0		mg/L		100	80 - 120

**Lab Sample ID: 180-92056-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 283622**

**Client Sample ID: GWC-31**  
**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	26.3		mg/L		99	80 - 120	1	20
Fluoride	1.3		1.25	2.62		mg/L		102	80 - 120	1	20
Sulfate	9.9		25.0	34.5		mg/L		99	80 - 120	1	20



# QC Sample Results

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

Job ID: 180-92056-1  
SDG: App III

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-283522/1-A**  
**Matrix: Water**  
**Analysis Batch: 284064**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.12		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 16:34	1

**Lab Sample ID: MB 180-283522/1-A**  
**Matrix: Water**  
**Analysis Batch: 284092**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.030		0.080	0.030	mg/L		07/01/19 07:56	07/06/19 09:45	1

**Lab Sample ID: LCS 180-283522/2-A**  
**Matrix: Water**  
**Analysis Batch: 284064**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	25.7		mg/L		103	80 - 120

**Lab Sample ID: LCS 180-283522/2-A**  
**Matrix: Water**  
**Analysis Batch: 284092**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.26		mg/L		101	80 - 120

**Lab Sample ID: 180-92056-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	11		25.0	36.6		mg/L		101	75 - 125

**Lab Sample ID: 180-92056-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284092**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	<0.030		1.25	1.24		mg/L		99	75 - 125

**Lab Sample ID: 180-92056-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	11		25.0	36.8		mg/L		101	75 - 125	0	20

**Lab Sample ID: 180-92056-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 284092**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	<0.030		1.25	1.26		mg/L		101	75 - 125	1	20

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# QC Sample Results

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

Job ID: 180-92056-1  
 SDG: App III

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-283618/2**  
**Matrix: Water**  
**Analysis Batch: 283618**

**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			07/01/19 18:25	1

**Lab Sample ID: LCS 180-283618/1**  
**Matrix: Water**  
**Analysis Batch: 283618**

**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	201	208		mg/L		103	80 - 120

**Lab Sample ID: MB 180-283889/2**  
**Matrix: Water**  
**Analysis Batch: 283889**

**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			07/03/19 14:22	1

**Lab Sample ID: LCS 180-283889/1**  
**Matrix: Water**  
**Analysis Batch: 283889**

**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	201	240		mg/L		119	80 - 120

**Lab Sample ID: 180-92056-7 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 283889**

**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	120		127		mg/L		5	10

# QC Association Summary

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

Job ID: 180-92056-1  
SDG: App III

## HPLC/IC

### Analysis Batch: 283485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-3	GWC-24	Total/NA	Ground Water	300.0	
180-92056-4	GWC-27	Total/NA	Ground Water	300.0	
180-92056-5	GWC-11	Total/NA	Ground Water	300.0	
180-92056-6	GWC-10	Total/NA	Ground Water	300.0	
180-92056-7	GWC-5	Total/NA	Ground Water	300.0	
180-92056-8	GWC-6	Total/NA	Ground Water	300.0	
MB 180-283485/17	Method Blank	Total/NA	Water	300.0	
LCS 180-283485/16	Lab Control Sample	Total/NA	Water	300.0	

### Analysis Batch: 283622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total/NA	Ground Water	300.0	
180-92056-2	EB-3-6-26-19	Total/NA	Water	300.0	
180-92056-9	GWC-12	Total/NA	Ground Water	300.0	
180-92056-10	GWC-19	Total/NA	Ground Water	300.0	
180-92056-11	FB-3-6-26-19	Total/NA	Water	300.0	
MB 180-283622/6	Method Blank	Total/NA	Water	300.0	
LCS 180-283622/5	Lab Control Sample	Total/NA	Water	300.0	
180-92056-1 MS	GWC-31	Total/NA	Ground Water	300.0	
180-92056-1 MSD	GWC-31	Total/NA	Ground Water	300.0	

## Metals

### Prep Batch: 283522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total Recoverable	Ground Water	3005A	
180-92056-2	EB-3-6-26-19	Total Recoverable	Water	3005A	
180-92056-3	GWC-24	Total Recoverable	Ground Water	3005A	
180-92056-4	GWC-27	Total Recoverable	Ground Water	3005A	
180-92056-5	GWC-11	Total Recoverable	Ground Water	3005A	
180-92056-6	GWC-10	Total Recoverable	Ground Water	3005A	
180-92056-7	GWC-5	Total Recoverable	Ground Water	3005A	
180-92056-8	GWC-6	Total Recoverable	Ground Water	3005A	
180-92056-9	GWC-12	Total Recoverable	Ground Water	3005A	
180-92056-10	GWC-19	Total Recoverable	Ground Water	3005A	
180-92056-11	FB-3-6-26-19	Total Recoverable	Water	3005A	
MB 180-283522/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283522/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-92056-1 MS	GWC-31	Total Recoverable	Ground Water	3005A	
180-92056-1 MSD	GWC-31	Total Recoverable	Ground Water	3005A	

### Analysis Batch: 284064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-2	EB-3-6-26-19	Total Recoverable	Water	EPA 6020	283522
180-92056-3	GWC-24	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-4	GWC-27	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-5	GWC-11	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-6	GWC-10	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-7	GWC-5	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-8	GWC-6	Total Recoverable	Ground Water	EPA 6020	283522

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# QC Association Summary

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

Job ID: 180-92056-1  
SDG: App III

## Metals (Continued)

### Analysis Batch: 284064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-9	GWC-12	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-10	GWC-19	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-11	FB-3-6-26-19	Total Recoverable	Water	EPA 6020	283522
MB 180-283522/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283522
LCS 180-283522/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283522
180-92056-1 MS	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-1 MSD	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522

### Analysis Batch: 284092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-2	EB-3-6-26-19	Total Recoverable	Water	EPA 6020	283522
180-92056-3	GWC-24	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-4	GWC-27	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-5	GWC-11	Total Recoverable	Ground Water	EPA 6020	283522
MB 180-283522/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283522
LCS 180-283522/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283522
180-92056-1 MS	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-1 MSD	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522

## General Chemistry

### Analysis Batch: 283618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total/NA	Ground Water	SM 2540C	
180-92056-2	EB-3-6-26-19	Total/NA	Water	SM 2540C	
MB 180-283618/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-283618/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 283889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-3	GWC-24	Total/NA	Ground Water	SM 2540C	
180-92056-4	GWC-27	Total/NA	Ground Water	SM 2540C	
180-92056-5	GWC-11	Total/NA	Ground Water	SM 2540C	
180-92056-6	GWC-10	Total/NA	Ground Water	SM 2540C	
180-92056-7	GWC-5	Total/NA	Ground Water	SM 2540C	
180-92056-8	GWC-6	Total/NA	Ground Water	SM 2540C	
180-92056-9	GWC-12	Total/NA	Ground Water	SM 2540C	
180-92056-10	GWC-19	Total/NA	Ground Water	SM 2540C	
180-92056-11	FB-3-6-26-19	Total/NA	Water	SM 2540C	
MB 180-283889/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-283889/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-92056-7 DU	GWC-5	Total/NA	Ground Water	SM 2540C	

**Chain of Custody Record**

<b>Client Information</b> Client Contact: <u>O. FIQUEA, H. Auld</u> Phone: <u>(727) 594-5998</u> E-Mail: <u>veronica.boriot@testamericainc.com</u>		Lab PM: <u>Boriot, Veronica</u> Carrier Tracking No(s):	
Company: <u>Southern Company</u> Address: <u>PO BOX 2641 GSC8</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35291</u> Phone:		Analysis Requested	
PO #: <u>SCS10347656</u> WO #:		Due Date Requested:	
Email: <u>JAbraham@southernco.com</u> Project #: <u>40007709</u> CCR - Plant Wansley - Landfill Site: <u>Georgia</u>		TAT Requested (days): <u>3 Day</u>	
<b>Sample Identification</b>		<b>Field Filtered Sample (Yes or No)</b>	
<u>GWC-31</u> <u>EB-3-6-26-19</u> <u>GWC-24</u> <u>GWC-27</u> <u>GWC-11</u> <u>GWC-5-06-19</u> <u>GWC-5</u> <u>GWC-6</u> <u>GWC-12</u> <u>GWC-19</u> <u>FB-3-6-26-19</u>	Sample Date <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u> <u>6-26-19</u>	Sample Time <u>1020</u> <u>1030</u> <u>1220</u> <u>1355</u> <u>1025</u> <u>1055</u> <u>1315</u> <u>1405</u> <u>1110</u> <u>1501</u> <u>1130</u>	Matrix (W=Water, S=solid, O=wastewater, BT=tissue, A=air) <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u>
<b>Possible Hazard Identification</b> <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		<b>Performance MS/MSD (Yes or No)</b> <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D	
Deliverable Requested: I, II, III, IV, Other (specify)		APF 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 G: T, SO <sub>4</sub> , & TDS (EPA 300.0 & SM 2540C)	
Empty Kit Relinquished by:		Total Number of containers:	
Relinquished by: <u>[Signature]</u> Date: <u>6-27-19 1515</u> Company: <u>ACC</u>		Special Instructions/Note: APP III PLUS STATE METALS LIST	
Relinquished by: <u>[Signature]</u> Date: <u>6-27-19 1515</u> Company: <u>ACC</u>		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	
Relinquished by: <u>[Signature]</u> Date: <u>6-28-19</u> Company: <u>TAH</u>		Special Instructions/QC Requirements:	
Relinquished by: <u>[Signature]</u> Date: <u>6-28-19</u> Company: <u>TAH</u>		Method of Shipment:	
Relinquished by: <u>[Signature]</u> Date: <u>6-28-19</u> Company: <u>TAH</u>		Cooler Temperature(s) °C and Other Remarks:	
Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> No <input type="checkbox"/>		Ver: 08/04/2016	





En  
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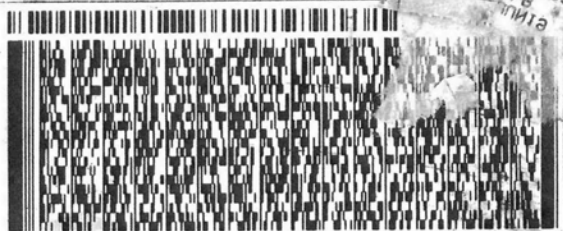
ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093  
UNITED STATES US

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7068  
THU:  
PO:

REF:



FedEx  
Express



180-92056 Waybill

1 of 2

TRK# 4651 0082 5408

0201  
## MASTER ##

FRI - 28 JUN 3:00P  
STANDARD OVERNIGHT

**NA AGCA**

15238

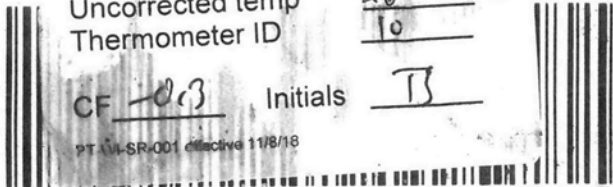
PA-US PIT

Uncorrected temp  
Thermometer ID

26 °C  
10

CF 013 Initials TB

PT UL-SR-001 effective 11/8/18



- 1
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- 3
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- 7
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- 9
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- 13

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Environment  
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SHIP DATE: 27 JUN 19  
 ACTWGT: 54.25 LB  
 CAD: 859116/CAFE3211

ORIGIN ID: MULA (678) 966-9991  
 GEORGE TAYLOR  
 EUROPE INSTESTAMERICA, ATLANTA  
 6500 MCDONOUGH DRIVE  
 NORCROSS, GA 30093  
 UNITED STATES US

BILL THIRD PARTY

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7058  
 THU:  
 PD:



FRI - 29 JUN 3:00P  
 ANDA OVERNIGHT

2 of 2  
 MPS# 4651 0082 5410  
 0263  
 Mstr# 4651 0082 5408

15238  
 PIT

NA  
 Uncorrected temp  
 Thermometer ID

°C PA-US

CF -0.3 Initials P

PT-WI-SR-001 effective 11/8/18

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-92056-1  
SDG Number: App III

**Login Number: 92056**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 180-92056-2

Laboratory Sample Delivery Group: State Metals  
Client Project/Site: CCR - Plant Wansley

**For:**

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

Attn: Joju Abraham



Authorized for release by:  
7/9/2019 2:06:25 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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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# Definitions/Glossary

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

Job ID: 180-92056-2  
SDG: State Metals

## 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

Job ID: 180-92056-2  
 SDG: State Metals

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-20
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-20
Florida	NELAP		E871008	06-30-20
Illinois	NELAP	5	200005	06-30-20
Illinois	NELAP		004375	06-30-20
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-20
Minnesota	NELAP Secondary AB	5	042-999-482	12-31-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-20
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
Rhode Island	State		LAO00362	12-30-19
Rhode Island	State Program	1	LAO00362	12-30-19
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P-Soil-01	06-26-22
Utah	NELAP	8	PA001462015-4	05-31-20
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19

# Sample Summary

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

Job ID: 180-92056-2  
SDG: State Metals

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-92056-1	GWC-31	Ground Water	06/26/19 10:20	06/28/19 09:00	
180-92056-2	EB-3-6-26-19	Water	06/26/19 10:30	06/28/19 09:00	
180-92056-3	GWC-24	Ground Water	06/26/19 12:20	06/28/19 09:00	
180-92056-4	GWC-27	Ground Water	06/26/19 13:55	06/28/19 09:00	
180-92056-5	GWC-11	Ground Water	06/26/19 10:25	06/28/19 09:00	
180-92056-6	GWC-10	Ground Water	06/26/19 10:55	06/28/19 09:00	
180-92056-7	GWC-5	Ground Water	06/26/19 13:15	06/28/19 09:00	
180-92056-8	GWC-6	Ground Water	06/26/19 14:05	06/28/19 09:00	
180-92056-9	GWC-12	Ground Water	06/26/19 11:10	06/28/19 09:00	
180-92056-10	GWC-19	Ground Water	06/26/19 15:01	06/28/19 09:00	
180-92056-11	FB-3-6-26-19	Water	06/26/19 11:30	06/28/19 09:00	

# Method Summary

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

Job ID: 180-92056-2  
SDG: State Metals

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

Job ID: 180-92056-2  
SDG: State Metals

**Client Sample ID: GWC-31**

**Date Collected: 06/26/19 10:20**

**Date Received: 06/28/19 09:00**

**Lab Sample ID: 180-92056-1**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 16:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:50	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: EB-3-6-26-19**

**Date Collected: 06/26/19 10:30**

**Date Received: 06/28/19 09:00**

**Lab Sample ID: 180-92056-2**

**Matrix: 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 16:54	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:51	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-24**

**Date Collected: 06/26/19 12:20**

**Date Received: 06/28/19 09:00**

**Lab Sample ID: 180-92056-3**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 16:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:58	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-27**

**Date Collected: 06/26/19 13:55**

**Date Received: 06/28/19 09:00**

**Lab Sample ID: 180-92056-4**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:02	RJR	TAL PIT
Instrument ID: HGY										

# Lab Chronicle

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

Job ID: 180-92056-2  
SDG: State Metals

## Client Sample ID: GWC-11

Date Collected: 06/26/19 10:25

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:03	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-10

Date Collected: 06/26/19 10:55

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:04	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-5

Date Collected: 06/26/19 13:15

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:05	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: GWC-6

Date Collected: 06/26/19 14:05

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92056-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:07	RJR	TAL PIT
Instrument ID: HGY										



# Lab Chronicle

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

Job ID: 180-92056-2  
SDG: State Metals

**Client Sample ID: GWC-12**

**Lab Sample ID: 180-92056-9**

**Date Collected: 06/26/19 11:10**

**Matrix: Ground Water**

**Date Received: 06/28/19 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:08	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-92056-10**

**Date Collected: 06/26/19 15:01**

**Matrix: Ground Water**

**Date Received: 06/28/19 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:09	RJR	TAL PIT
Instrument ID: HGY										

**Client Sample ID: FB-3-6-26-19**

**Lab Sample ID: 180-92056-11**

**Date Collected: 06/26/19 11:30**

**Matrix: Water**

**Date Received: 06/28/19 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:14	RJR	TAL PIT
Instrument ID: HGY										

**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

KAK = Kayla Kalamasz

RJR = Ron Rosenbaum

Batch Type: Analysis

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

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

Job ID: 180-92056-2  
SDG: State Metals

**Client Sample ID: GWC-31**

**Lab Sample ID: 180-92056-1**

Date Collected: 06/26/19 10:20

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 16:41	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 16:41	1
Barium	<0.0015		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 16:41	1
<b>Beryllium</b>	<b>0.00084</b>	<b>J</b>	0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 16:41	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:41	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 16:41	1
<b>Chromium</b>	<b>0.0037</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 16:41	1
<b>Copper</b>	<b>0.0019</b>	<b>J</b>	0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 16:41	1
<b>Nickel</b>	<b>0.00034</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 16:41	1
<b>Lead</b>	<b>0.00022</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:41	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 16:41	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 16:41	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:41	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 16:41	1
<b>Zinc</b>	<b>0.011</b>		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 16:41	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		07/03/19 17:24	07/04/19 14:50	1

**Client Sample ID: EB-3-6-26-19**

**Lab Sample ID: 180-92056-2**

Date Collected: 06/26/19 10:30

Matrix: Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 16:54	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 16:54	1
Barium	<0.0015		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 16:54	1
<b>Beryllium</b>	<b>0.00027</b>	<b>J</b>	0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 16:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:54	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 16:54	1
<b>Chromium</b>	<b>0.0020</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 16:54	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 16:54	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 16:54	1
<b>Lead</b>	<b>0.00018</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 16:54	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 16:54	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:54	1
<b>Vanadium</b>	<b>0.0011</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 16:54	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 16:54	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		07/03/19 17:24	07/04/19 14:51	1

# Client Sample Results

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

Job ID: 180-92056-2  
SDG: State Metals

**Client Sample ID: GWC-24**

**Lab Sample ID: 180-92056-3**

Date Collected: 06/26/19 12:20

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 16:58	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Barium</b>	<b>0.0093</b>	<b>J</b>	0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Beryllium</b>	<b>0.00017</b>	<b>J</b>	0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 16:58	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Cobalt</b>	<b>0.0010</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Chromium</b>	<b>0.0027</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Copper</b>	<b>0.00094</b>	<b>J</b>	0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Nickel</b>	<b>0.0016</b>		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Lead</b>	<b>0.00016</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:58	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 16:58	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 16:58	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 16:58	1
<b>Zinc</b>	<b>0.0062</b>		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 16:58	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		07/03/19 17:26	07/04/19 14:58	1

**Client Sample ID: GWC-27**

**Lab Sample ID: 180-92056-4**

Date Collected: 06/26/19 13:55

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:01	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:01	1
<b>Barium</b>	<b>0.017</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:01	1
<b>Beryllium</b>	<b>0.0056</b>		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:01	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:01	1
<b>Cobalt</b>	<b>0.0023</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:01	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:01	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:01	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:01	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:01	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:01	1
<b>Thallium</b>	<b>0.00019</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:01	1
<b>Vanadium</b>	<b>0.0011</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:01	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:01	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		07/03/19 17:26	07/04/19 15:02	1

# Client Sample Results

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

Job ID: 180-92056-2  
SDG: State Metals

**Client Sample ID: GWC-11**

**Lab Sample ID: 180-92056-5**

Date Collected: 06/26/19 10:25

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:05	1
<b>Arsenic</b>	<b>0.0015</b>		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:05	1
<b>Barium</b>	<b>0.26</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:05	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:05	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:05	1
<b>Cobalt</b>	<b>0.0037</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:05	1
<b>Chromium</b>	<b>0.0041</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:05	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:05	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:05	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:05	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:05	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:05	1
<b>Vanadium</b>	<b>0.0035</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:05	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:05	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		07/03/19 17:26	07/04/19 15:03	1

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-92056-6**

Date Collected: 06/26/19 10:55

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:15	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:15	1
<b>Barium</b>	<b>0.020</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:15	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:15	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:15	1
<b>Cobalt</b>	<b>0.0051</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:15	1
<b>Chromium</b>	<b>0.0021</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:15	1
<b>Copper</b>	<b>0.00064 J</b>		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:15	1
<b>Nickel</b>	<b>0.0014</b>		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:15	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:15	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:15	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:15	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:15	1
<b>Zinc</b>	<b>0.0044 J</b>		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:15	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		07/03/19 17:26	07/04/19 15:04	1

# Client Sample Results

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

Job ID: 180-92056-2  
SDG: State Metals

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-92056-7**

Date Collected: 06/26/19 13:15

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:18	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:18	1
<b>Barium</b>	<b>0.020</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:18	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:18	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:18	1
<b>Cobalt</b>	<b>0.0054</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:18	1
<b>Chromium</b>	<b>0.0029</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:18	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:18	1
<b>Nickel</b>	<b>0.0051</b>		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:18	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:18	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:18	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:18	1
<b>Vanadium</b>	<b>0.0033</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:18	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:18	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		07/03/19 17:26	07/04/19 15:05	1

**Client Sample ID: GWC-6**

**Lab Sample ID: 180-92056-8**

Date Collected: 06/26/19 14:05

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:22	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:22	1
<b>Barium</b>	<b>0.045</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:22	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:22	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:22	1
<b>Cobalt</b>	<b>0.012</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:22	1
<b>Chromium</b>	<b>0.0027</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:22	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:22	1
<b>Nickel</b>	<b>0.0052</b>		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:22	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:22	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:22	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:22	1
<b>Vanadium</b>	<b>0.0016</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:22	1
<b>Zinc</b>	<b>0.0033</b>	<b>J</b>	0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:22	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		07/03/19 17:26	07/04/19 15:07	1

# Client Sample Results

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

Job ID: 180-92056-2  
SDG: State Metals

**Client Sample ID: GWC-12**

**Lab Sample ID: 180-92056-9**

Date Collected: 06/26/19 11:10

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:25	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:25	1
<b>Barium</b>	<b>0.020</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:25	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:25	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:25	1
<b>Cobalt</b>	<b>0.00039</b>	<b>J</b>	0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:25	1
<b>Chromium</b>	<b>0.0021</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:25	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:25	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:25	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:25	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:25	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:25	1
<b>Vanadium</b>	<b>0.0013</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:25	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:25	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		07/03/19 17:26	07/04/19 15:08	1

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-92056-10**

Date Collected: 06/26/19 15:01

Matrix: Ground Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:29	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:29	1
<b>Barium</b>	<b>0.077</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:29	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:29	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:29	1
<b>Cobalt</b>	<b>0.00042</b>	<b>J</b>	0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:29	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:29	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:29	1
<b>Nickel</b>	<b>0.00051</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:29	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:29	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:29	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:29	1
<b>Vanadium</b>	<b>0.0023</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:29	1
<b>Zinc</b>	<b>0.0038</b>	<b>J</b>	0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:29	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		07/03/19 17:26	07/04/19 15:09	1

# Client Sample Results

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

Job ID: 180-92056-2  
SDG: State Metals

**Client Sample ID: FB-3-6-26-19**

**Lab Sample ID: 180-92056-11**

Date Collected: 06/26/19 11:30

Matrix: Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:32	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:32	1
Barium	<0.0015		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:32	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:32	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:32	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:32	1
<b>Chromium</b>	<b>0.0021</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:32	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:32	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:32	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:32	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:32	1
<b>Vanadium</b>	<b>0.0011</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:32	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:32	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		07/03/19 17:26	07/04/19 15:14	1

# QC Sample Results

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

Job ID: 180-92056-2  
SDG: State Metals

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-283522/1-A**  
**Matrix: Water**  
**Analysis Batch: 284064**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 16:34	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 16:34	1
Barium	<0.0015		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 16:34	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 16:34	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:34	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 16:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 16:34	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 16:34	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 16:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:34	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 16:34	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 16:34	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:34	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 16:34	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 16:34	1

**Lab Sample ID: LCS 180-283522/2-A**  
**Matrix: Water**  
**Analysis Batch: 284064**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.250	0.249		mg/L		100	80 - 120
Arsenic	1.00	0.906		mg/L		91	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.508		mg/L		102	80 - 120
Cadmium	0.500	0.519		mg/L		104	80 - 120
Cobalt	0.500	0.461		mg/L		92	80 - 120
Chromium	0.500	0.519		mg/L		104	80 - 120
Copper	0.500	0.453		mg/L		91	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Lead	0.500	0.527		mg/L		105	80 - 120
Antimony	0.250	0.273		mg/L		109	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Vanadium	0.500	0.517		mg/L		103	80 - 120
Zinc	0.250	0.231		mg/L		92	80 - 120

**Lab Sample ID: 180-92056-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.00012		0.250	0.252		mg/L		101	75 - 125
Arsenic	<0.00032		1.00	0.933		mg/L		93	75 - 125
Barium	<0.0015		1.00	1.01		mg/L		101	75 - 125
Beryllium	0.00084	J	0.500	0.479		mg/L		96	75 - 125
Cadmium	<0.00013		0.500	0.518		mg/L		104	75 - 125
Cobalt	<0.000075		0.500	0.469		mg/L		94	75 - 125
Chromium	0.0037		0.500	0.518		mg/L		103	75 - 125

Eurofins TestAmerica, Pittsburgh



# QC Sample Results

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

Job ID: 180-92056-2  
SDG: State Metals

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

**Lab Sample ID: 180-92056-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.0019	J	0.500	0.462		mg/L		92	75 - 125
Nickel	0.00034	J	0.500	0.513		mg/L		102	75 - 125
Lead	0.00022	J	0.500	0.525		mg/L		105	75 - 125
Antimony	<0.00038		0.250	0.271		mg/L		108	75 - 125
Selenium	<0.0026		1.00	1.04		mg/L		104	75 - 125
Thallium	<0.00013		1.00	1.12		mg/L		112	75 - 125
Vanadium	0.0015		0.500	0.515		mg/L		103	75 - 125
Zinc	0.011		0.250	0.245		mg/L		93	75 - 125

**Lab Sample ID: 180-92056-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 284064**

**Client Sample ID: GWC-31**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Silver	<0.00012		0.250	0.250		mg/L		100	75 - 125	1	20
Arsenic	<0.00032		1.00	0.907		mg/L		91	75 - 125	3	20
Barium	<0.0015		1.00	1.00		mg/L		100	75 - 125	0	20
Beryllium	0.00084	J	0.500	0.487		mg/L		97	75 - 125	2	20
Cadmium	<0.00013		0.500	0.515		mg/L		103	75 - 125	1	20
Cobalt	<0.000075		0.500	0.461		mg/L		92	75 - 125	2	20
Chromium	0.0037		0.500	0.518		mg/L		103	75 - 125	0	20
Copper	0.0019	J	0.500	0.454		mg/L		90	75 - 125	2	20
Nickel	0.00034	J	0.500	0.518		mg/L		104	75 - 125	1	20
Lead	0.00022	J	0.500	0.525		mg/L		105	75 - 125	0	20
Antimony	<0.00038		0.250	0.273		mg/L		109	75 - 125	1	20
Selenium	<0.0026		1.00	1.04		mg/L		104	75 - 125	0	20
Thallium	<0.00013		1.00	1.12		mg/L		112	75 - 125	0	20
Vanadium	0.0015		0.500	0.516		mg/L		103	75 - 125	0	20
Zinc	0.011		0.250	0.251		mg/L		96	75 - 125	3	20

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-283910/1-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 283910**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		07/03/19 17:24	07/04/19 14:13	1

**Lab Sample ID: LCS 180-283910/2-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 283910**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00244		mg/L		97	80 - 120

# QC Sample Results

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

Job ID: 180-92056-2  
 SDG: State Metals

## Method: EPA 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: MB 180-283911/1-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 283911**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		07/03/19 17:26	07/04/19 14:52	1

**Lab Sample ID: LCS 180-283911/2-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 283911**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00250		mg/L		100	80 - 120

**Lab Sample ID: 180-92056-3 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 283958**

**Client Sample ID: GWC-24**  
**Prep Type: Total/NA**  
**Prep Batch: 283911**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000945		mg/L		95	75 - 125

**Lab Sample ID: 180-92056-3 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 283958**

**Client Sample ID: GWC-24**  
**Prep Type: Total/NA**  
**Prep Batch: 283911**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000948		mg/L		95	75 - 125	0	20

# QC Association Summary

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

Job ID: 180-92056-2  
SDG: State Metals

## Metals

### Prep Batch: 283522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total Recoverable	Ground Water	3005A	
180-92056-2	EB-3-6-26-19	Total Recoverable	Water	3005A	
180-92056-3	GWC-24	Total Recoverable	Ground Water	3005A	
180-92056-4	GWC-27	Total Recoverable	Ground Water	3005A	
180-92056-5	GWC-11	Total Recoverable	Ground Water	3005A	
180-92056-6	GWC-10	Total Recoverable	Ground Water	3005A	
180-92056-7	GWC-5	Total Recoverable	Ground Water	3005A	
180-92056-8	GWC-6	Total Recoverable	Ground Water	3005A	
180-92056-9	GWC-12	Total Recoverable	Ground Water	3005A	
180-92056-10	GWC-19	Total Recoverable	Ground Water	3005A	
180-92056-11	FB-3-6-26-19	Total Recoverable	Water	3005A	
MB 180-283522/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283522/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-92056-1 MS	GWC-31	Total Recoverable	Ground Water	3005A	
180-92056-1 MSD	GWC-31	Total Recoverable	Ground Water	3005A	

### Prep Batch: 283910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total/NA	Ground Water	7470A	
180-92056-2	EB-3-6-26-19	Total/NA	Water	7470A	
MB 180-283910/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-283910/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 283911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-3	GWC-24	Total/NA	Ground Water	7470A	
180-92056-4	GWC-27	Total/NA	Ground Water	7470A	
180-92056-5	GWC-11	Total/NA	Ground Water	7470A	
180-92056-6	GWC-10	Total/NA	Ground Water	7470A	
180-92056-7	GWC-5	Total/NA	Ground Water	7470A	
180-92056-8	GWC-6	Total/NA	Ground Water	7470A	
180-92056-9	GWC-12	Total/NA	Ground Water	7470A	
180-92056-10	GWC-19	Total/NA	Ground Water	7470A	
180-92056-11	FB-3-6-26-19	Total/NA	Water	7470A	
MB 180-283911/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-283911/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-92056-3 MS	GWC-24	Total/NA	Ground Water	7470A	
180-92056-3 MSD	GWC-24	Total/NA	Ground Water	7470A	

### Analysis Batch: 283958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total/NA	Ground Water	EPA 7470A	283910
180-92056-2	EB-3-6-26-19	Total/NA	Water	EPA 7470A	283910
180-92056-3	GWC-24	Total/NA	Ground Water	EPA 7470A	283911
180-92056-4	GWC-27	Total/NA	Ground Water	EPA 7470A	283911
180-92056-5	GWC-11	Total/NA	Ground Water	EPA 7470A	283911
180-92056-6	GWC-10	Total/NA	Ground Water	EPA 7470A	283911
180-92056-7	GWC-5	Total/NA	Ground Water	EPA 7470A	283911
180-92056-8	GWC-6	Total/NA	Ground Water	EPA 7470A	283911
180-92056-9	GWC-12	Total/NA	Ground Water	EPA 7470A	283911
180-92056-10	GWC-19	Total/NA	Ground Water	EPA 7470A	283911

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-92056-2  
 SDG: State Metals

## Metals (Continued)

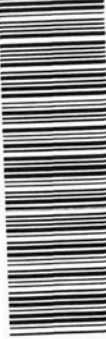
### Analysis Batch: 283958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-11	FB-3-6-26-19	Total/NA	Water	EPA 7470A	283911
MB 180-283910/1-A	Method Blank	Total/NA	Water	EPA 7470A	283910
MB 180-283911/1-A	Method Blank	Total/NA	Water	EPA 7470A	283911
LCS 180-283910/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	283910
LCS 180-283911/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	283911
180-92056-3 MS	GWC-24	Total/NA	Ground Water	EPA 7470A	283911
180-92056-3 MSD	GWC-24	Total/NA	Ground Water	EPA 7470A	283911

### Analysis Batch: 284064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92056-1	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-2	EB-3-6-26-19	Total Recoverable	Water	EPA 6020	283522
180-92056-3	GWC-24	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-4	GWC-27	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-5	GWC-11	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-6	GWC-10	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-7	GWC-5	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-8	GWC-6	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-9	GWC-12	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-10	GWC-19	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-11	FB-3-6-26-19	Total Recoverable	Water	EPA 6020	283522
MB 180-283522/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283522
LCS 180-283522/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283522
180-92056-1 MS	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522
180-92056-1 MSD	GWC-31	Total Recoverable	Ground Water	EPA 6020	283522

### Chain of Custody Record

<b>Client Information</b> Lab PM: Bortot, Veronica Sampler: O. FUQUEA, H. Auld Phone: (904) 594-5998 E-Mail: veronica.bortot@testamericainc.com		Carrier Tracking No(s): 	
Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone:		180-92056 Chain of Custody	
Due Date Requested: TAT Requested (days): 3 Day		Analysis Requested	
PO #: SCS10347656 WO #:		Field Filtered Sample (Yes or No)	
Email: JAbraham@southernco.com Project #: 40007709 CCR - Plant Wansley - Landfill Site: Georgia		Perform MS/MSD (Yes or No)	
Sample Identification		Special Instructions/Note: APP III PLUS STATE METALS LIST	
Sample Date GWC-31 EB-3-6-26-19 GWC-24 GWC-27 GWC-11 GWC-5-06-19 GWC-5 GWC-6 GWC-12 GWC-19 FB-3-6-26-19	Sample Time 1020 1030 1220 1355 1025 1055 1315 1405 1110 1501 1130	Sample Type (C=Comp, G=grab) G G G G G G G G G G G G	Matrix (W=water, S=solid, O=oil, A=air, T=tissue, A=air) Water Water Water Water Water Water Water Water Water Water Water Water
Preservation Code: D D D D D D D D D D D D D		Total Number of containers 2 2 2 2 2 2 2 2 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 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	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by:		Date/Time: 6-27-19 1515 Company: ACC	
Relinquished by:		Date/Time: 6-28-19 Company: GWA	
Relinquished by:		Date/Time: 7-00 Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	



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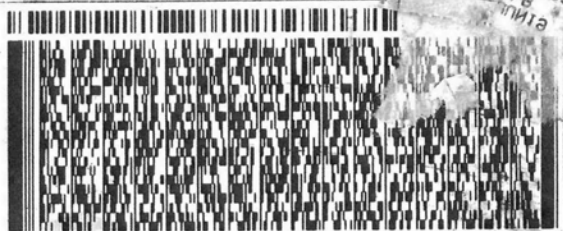
ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093  
UNITED STATES US

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7068  
THU:  
PO:

REF:



FedEx  
Express



180-92056 Waybill

1 of 2

TRK# 4651 0082 5408

0201  
## MASTER ##

FRI - 28 JUN 3:00P  
STANDARD OVERNIGHT

**NA AGCA**

15238

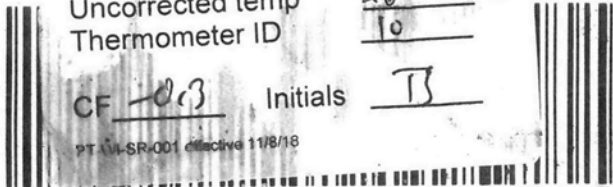
PA-US PIT

Uncorrected temp  
Thermometer ID

26 °C  
10

CF 013 Initials TB

PT UL-SR-001 effective 11/8/18



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SHIP DATE: 27 JUN 19  
 ACTWGT: 54.25 LB  
 CAD: 859116/CAFE3211

ORIGIN ID: MULA (678) 966-9991  
 GEORGE TAYLOR  
 EUROPE INSTESTAMERICA, ATLANTA  
 6500 McDONOUGH DRIVE  
 NORCROSS, GA 30093  
 UNITED STATES US

BILL THIRD PARTY

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7058  
 THU:  
 PD:



FRI - 29 JUN 3:00P  
 ANDA OVERNIGHT

2 of 2  
 MPS# 4651 0082 5410  
 0263  
 Mstr# 4651 0082 5408

15238  
 PIT

NA  
 Uncorrected temp  
 Thermometer ID

°C PA-US

CF -0.1 Initials P

PT-WI-SR-001 effective 11/8/18

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-92056-2  
SDG Number: State Metals

**Login Number: 92056**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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: 180-92057-1

Laboratory Sample Delivery Group: SW

Client Project/Site: CCR - Plant Wansley State Metals

**For:**

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

Attn: Joju Abraham



Authorized for release by:  
7/9/2019 2:08:05 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 State Metals

Job ID: 180-92057-1  
SDG: SW

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**Job ID: 180-92057-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-92057-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/28/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3° C and 2.5° C.

**Metals**

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 State Metals

Job ID: 180-92057-1  
SDG: SW

## 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 State Metals

Job ID: 180-92057-1  
 SDG: SW

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-20
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-20
Florida	NELAP		E871008	06-30-20
Illinois	NELAP	5	200005	06-30-20
Illinois	NELAP		004375	06-30-20
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-20
Minnesota	NELAP Secondary AB	5	042-999-482	12-31-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-20
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
Rhode Island	State		LAO00362	12-30-19
Rhode Island	State Program	1	LAO00362	12-30-19
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P-Soil-01	06-26-22
Utah	NELAP	8	PA001462015-4	05-31-20
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19

# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
SDG: SW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-92057-1	SWC-5	Surface Water	06/27/19 11:00	06/28/19 09:00	
180-92057-2	SWA-6	Surface Water	06/27/19 11:20	06/28/19 09:00	
180-92057-3	SWC-3	Surface Water	06/27/19 11:45	06/28/19 09:00	
180-92057-4	SWC-2	Surface Water	06/27/19 12:00	06/28/19 09:00	
180-92057-5	SWA-1	Surface Water	06/27/19 12:15	06/28/19 09:00	
180-92057-6	SWC-7	Surface Water	06/27/19 12:40	06/28/19 09:00	

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# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
SDG: SW

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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 State Metals

Job ID: 180-92057-1  
 SDG: SW

## Client Sample ID: SWC-5

Date Collected: 06/27/19 11:00

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92057-1

Matrix: Surface 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:15	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: SWA-6

Date Collected: 06/27/19 11:20

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92057-2

Matrix: Surface 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:39	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283911	07/03/19 17:26	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 15:16	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: SWC-3

Date Collected: 06/27/19 11:45

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92057-3

Matrix: Surface 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:42	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:24	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: SWC-2

Date Collected: 06/27/19 12:00

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92057-4

Matrix: Surface 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:46	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:25	RJR	TAL PIT
Instrument ID: HGY										



# Lab Chronicle

Client: Southern Company  
 Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
 SDG: SW

## Client Sample ID: SWA-1

Date Collected: 06/27/19 12:15

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92057-5

Matrix: Surface 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:26	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: SWC-7

Date Collected: 06/27/19 12:40

Date Received: 06/28/19 09:00

## Lab Sample ID: 180-92057-6

Matrix: Surface 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	283522	07/01/19 07:56	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 17:59	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		1			283958	07/04/19 14:27	RJR	TAL PIT
Instrument ID: HGY										

**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

KAK = Kayla Kalamasz

RJR = Ron Rosenbaum

Batch Type: Analysis

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
SDG: SW

**Client Sample ID: SWC-5**

**Lab Sample ID: 180-92057-1**

Date Collected: 06/27/19 11:00

Matrix: Surface Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:35	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Barium</b>	<b>0.080</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:35	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:35	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Cobalt</b>	<b>0.011</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Copper</b>	<b>0.0052</b>		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Nickel</b>	<b>0.0056</b>		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Lead</b>	<b>0.00023</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:35	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:35	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:35	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Vanadium</b>	<b>0.0011</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Zinc</b>	<b>0.010</b>		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Calcium</b>	<b>14</b>		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:35	1
<b>Boron</b>	<b>0.16</b>		0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:35	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		07/03/19 17:26	07/04/19 15:15	1

**Client Sample ID: SWA-6**

**Lab Sample ID: 180-92057-2**

Date Collected: 06/27/19 11:20

Matrix: Surface Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Arsenic</b>	<b>0.00047</b>	<b>J</b>	0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Barium</b>	<b>0.019</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:39	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:39	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Cobalt</b>	<b>0.00022</b>	<b>J</b>	0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:39	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Nickel</b>	<b>0.00033</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Lead</b>	<b>0.0011</b>		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:39	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:39	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:39	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Zinc</b>	<b>0.0033</b>	<b>J</b>	0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Calcium</b>	<b>6.2</b>		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:39	1
<b>Boron</b>	<b>0.13</b>		0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:39	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		07/03/19 17:26	07/04/19 15:16	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
SDG: SW

**Client Sample ID: SWC-3**

**Lab Sample ID: 180-92057-3**

Date Collected: 06/27/19 11:45

Matrix: Surface Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Arsenic</b>	<b>0.0025</b>		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Barium</b>	<b>0.076</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Beryllium</b>	<b>0.00041</b>	<b>J</b>	0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:42	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Cobalt</b>	<b>0.098</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Chromium</b>	<b>0.0063</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Copper</b>	<b>0.0053</b>		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Nickel</b>	<b>0.0058</b>		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Lead</b>	<b>0.0045</b>		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:42	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:42	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:42	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Vanadium</b>	<b>0.016</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Zinc</b>	<b>0.016</b>		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Calcium</b>	<b>8.2</b>		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:42	1
<b>Boron</b>	<b>0.047</b>	<b>J</b>	0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:42	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		07/03/19 17:24	07/04/19 14:24	1

**Client Sample ID: SWC-2**

**Lab Sample ID: 180-92057-4**

Date Collected: 06/27/19 12:00

Matrix: Surface Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Barium</b>	<b>0.050</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:46	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:46	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Cobalt</b>	<b>0.0043</b>		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Chromium</b>	<b>0.0029</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:46	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Nickel</b>	<b>0.00037</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Lead</b>	<b>0.00018</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:46	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:46	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:46	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Vanadium</b>	<b>0.0017</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Zinc</b>	<b>0.0034</b>	<b>J</b>	0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Calcium</b>	<b>16</b>		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:46	1
<b>Boron</b>	<b>0.031</b>	<b>J</b>	0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:46	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		07/03/19 17:24	07/04/19 14:25	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
SDG: SW

**Client Sample ID: SWA-1**

**Lab Sample ID: 180-92057-5**

Date Collected: 06/27/19 12:15

Matrix: Surface Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:56	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:56	1
<b>Barium</b>	<b>0.013</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:56	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:56	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:56	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:56	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:56	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:56	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:56	1
<b>Lead</b>	<b>0.00021</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:56	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:56	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:56	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:56	1
<b>Vanadium</b>	<b>0.0018</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:56	1
<b>Zinc</b>	<b>0.0057</b>		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:56	1
<b>Calcium</b>	<b>2.4</b>		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:56	1
<b>Boron</b>	<b>0.032</b>	<b>J</b>	0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:56	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		07/03/19 17:24	07/04/19 14:26	1

**Client Sample ID: SWC-7**

**Lab Sample ID: 180-92057-6**

Date Collected: 06/27/19 12:40

Matrix: Surface Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Arsenic</b>	<b>0.00041</b>	<b>J</b>	0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Barium</b>	<b>0.020</b>		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 17:59	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 17:59	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Cobalt</b>	<b>0.00032</b>	<b>J</b>	0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Chromium</b>	<b>0.0022</b>		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 17:59	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Nickel</b>	<b>0.00041</b>	<b>J</b>	0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Lead</b>	<b>0.00016</b>	<b>J</b>	0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:59	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 17:59	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 17:59	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Vanadium</b>	<b>0.0015</b>		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 17:59	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Calcium</b>	<b>6.9</b>		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 17:59	1
<b>Boron</b>	<b>0.14</b>		0.080	0.030	mg/L		07/01/19 07:56	07/05/19 17:59	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		07/03/19 17:24	07/04/19 14:27	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
 SDG: SW

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-283522/1-A**  
**Matrix: Water**  
**Analysis Batch: 284064**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:56	07/05/19 16:34	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:56	07/05/19 16:34	1
Barium	<0.0015		0.010	0.0015	mg/L		07/01/19 07:56	07/05/19 16:34	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:56	07/05/19 16:34	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:34	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:56	07/05/19 16:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		07/01/19 07:56	07/05/19 16:34	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:56	07/05/19 16:34	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:56	07/05/19 16:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:34	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:56	07/05/19 16:34	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:56	07/05/19 16:34	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:56	07/05/19 16:34	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		07/01/19 07:56	07/05/19 16:34	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:56	07/05/19 16:34	1
Calcium	<0.12		0.50	0.12	mg/L		07/01/19 07:56	07/05/19 16:34	1

**Lab Sample ID: LCS 180-283522/2-A**  
**Matrix: Water**  
**Analysis Batch: 284064**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.250	0.249		mg/L		100	80 - 120
Arsenic	1.00	0.906		mg/L		91	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.508		mg/L		102	80 - 120
Cadmium	0.500	0.519		mg/L		104	80 - 120
Cobalt	0.500	0.461		mg/L		92	80 - 120
Chromium	0.500	0.519		mg/L		104	80 - 120
Copper	0.500	0.453		mg/L		91	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Lead	0.500	0.527		mg/L		105	80 - 120
Antimony	0.250	0.273		mg/L		109	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Vanadium	0.500	0.517		mg/L		103	80 - 120
Zinc	0.250	0.231		mg/L		92	80 - 120
Calcium	25.0	25.7		mg/L		103	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-283910/1-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 283910**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		07/03/19 17:24	07/04/19 14:13	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
 SDG: SW

## Method: EPA 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 180-283910/2-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 283910**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00244		mg/L		97	80 - 120

**Lab Sample ID: MB 180-283911/1-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 283911**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		07/03/19 17:26	07/04/19 14:52	1

**Lab Sample ID: LCS 180-283911/2-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 283911**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00250		mg/L		100	80 - 120

# QC Association Summary

Client: Southern Company  
 Project/Site: CCR - Plant Wansley State Metals

Job ID: 180-92057-1  
 SDG: SW

## Metals

### Prep Batch: 283522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92057-1	SWC-5	Total Recoverable	Surface Water	3005A	
180-92057-2	SWA-6	Total Recoverable	Surface Water	3005A	
180-92057-3	SWC-3	Total Recoverable	Surface Water	3005A	
180-92057-4	SWC-2	Total Recoverable	Surface Water	3005A	
180-92057-5	SWA-1	Total Recoverable	Surface Water	3005A	
180-92057-6	SWC-7	Total Recoverable	Surface Water	3005A	
MB 180-283522/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283522/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 283910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92057-3	SWC-3	Total/NA	Surface Water	7470A	
180-92057-4	SWC-2	Total/NA	Surface Water	7470A	
180-92057-5	SWA-1	Total/NA	Surface Water	7470A	
180-92057-6	SWC-7	Total/NA	Surface Water	7470A	
MB 180-283910/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-283910/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 283911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92057-1	SWC-5	Total/NA	Surface Water	7470A	
180-92057-2	SWA-6	Total/NA	Surface Water	7470A	
MB 180-283911/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-283911/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 283958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92057-1	SWC-5	Total/NA	Surface Water	EPA 7470A	283911
180-92057-2	SWA-6	Total/NA	Surface Water	EPA 7470A	283911
180-92057-3	SWC-3	Total/NA	Surface Water	EPA 7470A	283910
180-92057-4	SWC-2	Total/NA	Surface Water	EPA 7470A	283910
180-92057-5	SWA-1	Total/NA	Surface Water	EPA 7470A	283910
180-92057-6	SWC-7	Total/NA	Surface Water	EPA 7470A	283910
MB 180-283910/1-A	Method Blank	Total/NA	Water	EPA 7470A	283910
MB 180-283911/1-A	Method Blank	Total/NA	Water	EPA 7470A	283911
LCS 180-283910/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	283910
LCS 180-283911/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	283911

### Analysis Batch: 284064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92057-1	SWC-5	Total Recoverable	Surface Water	EPA 6020	283522
180-92057-2	SWA-6	Total Recoverable	Surface Water	EPA 6020	283522
180-92057-3	SWC-3	Total Recoverable	Surface Water	EPA 6020	283522
180-92057-4	SWC-2	Total Recoverable	Surface Water	EPA 6020	283522
180-92057-5	SWA-1	Total Recoverable	Surface Water	EPA 6020	283522
180-92057-6	SWC-7	Total Recoverable	Surface Water	EPA 6020	283522
MB 180-283522/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283522
LCS 180-283522/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283522

Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Carrier Tracking No(s): Job #:	
Due Date Requested: TAT Requested (days): <b>3 DAY</b> PO #: SCS10347656 WO #:		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: 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)	
<b>Sample Identification</b> SWC-5 SWA-6 SWC-3 SWC-2 SWA-1 SWC-7		Total Number of containers: 1 Special Instructions/Note: STATE METALS LIST ONLY	
Sample Date: 6-27-19 Sample Time: 1100 Sample Type (C=comp, G=grab): G Matrix (Water, Solid, On-wastebd, A=Air): Water		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> No Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> No State Permit Metals (EPA 6020 & 7470) As, B, Ba, Be, Bi, Br, Ca, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg, D	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <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 Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Writurus 180-92057 Chain of Custody	
Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	





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ORIGIN ID:MULA (678) 966-9991  
 GEORGE TAYLOR  
 EUROFINSTESTAMERICA, ATLANTA  
 6500 MCDONOUGH DRIVE  
 NORCROSS, GA 30093  
 UNITED STATES US

SHIP DATE: 27 JUN 19  
 NETWTG: 54.25 LB  
 CAD: 859116/CAFE3211

BILL THIRD PARTY

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7068  
 INU:  
 POS:



FRI - 29 JUN 3:00P  
 ANDA OVERNIGHT

2 of 2  
 MPS# 4651 0082 5419  
 0263  
 Mstr# 4651 0082 6408

15238  
 PIT

NA  
 Uncorrected temp  
 Thermometer ID

°C PA-US

CF -0.3 Initials B

PT-WI-SR-001 effective 11/6/18





En  
Te

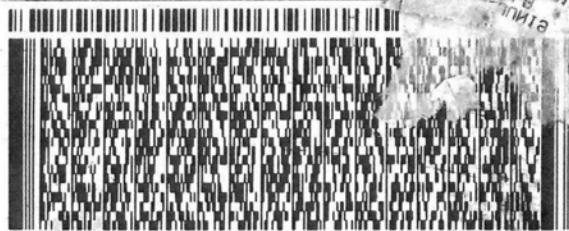
ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093  
UNITED STATES US

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7058  
INU:  
PG:

REF:



FedEx  
Express



1 of 2

TRK# 4651 0082 5408  
0201

## MASTER ##

**NA AGCA**

**FRI - 28 JUN 3:00P**  
**STANDARD OVERNIGHT**

**15238**

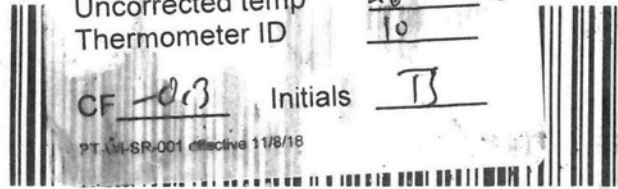
PA-US **PIT**

Uncorrected temp  
Thermometer ID

26 °C  
10

CF 0.3 Initials TJ

PTA-SR-001 effective 11/8/18



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# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-92057-1

SDG Number: SW

**Login Number: 92057**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

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 $<6\text{mm}$ (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: 180-92058-1  
Laboratory Sample Delivery Group: Effluent  
Client Project/Site: CCR - Plant Wansley

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

Attn: Joju Abraham



Authorized for release by:  
7/9/2019 2:28:14 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

Job ID: 180-92058-1  
SDG: Effluent

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**Job ID: 180-92058-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative  
180-92058-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/28/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3° C and 2.5° C.

**Metals**

Method(s) 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-284064 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020, 6020A: The continuing calibration blank (CCB) associated with batch 180-284064 recovered above the upper control limit for boron. The samples associated with this CCB were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 7470A: The following sample was diluted to bring the concentration of mercury to within the instrument's calibration range: EFFLUENT UNIT 1 (180-92058-1). Elevated reporting limits (RLs) are provided.

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

Job ID: 180-92058-1  
SDG: Effluent

## Qualifiers

### Metals

Qualifier	Qualifier Description
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.

## 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

Job ID: 180-92058-1  
SDG: Effluent

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-20
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-20
Florida	NELAP		E871008	06-30-20
Illinois	NELAP	5	200005	06-30-20
Illinois	NELAP		004375	06-30-20
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-20
Minnesota	NELAP Secondary AB	5	042-999-482	12-31-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-20
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
Rhode Island	State		LAO00362	12-30-19
Rhode Island	State Program	1	LAO00362	12-30-19
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P-Soil-01	06-26-22
Utah	NELAP	8	PA001462015-4	05-31-20
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19



# Sample Summary

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

Job ID: 180-92058-1  
SDG: Effluent

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-92058-1	EFFLUENT UNIT 1	Water	06/27/19 13:00	06/28/19 09:00	

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# Method Summary

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

Job ID: 180-92058-1  
SDG: Effluent

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

Job ID: 180-92058-1  
SDG: Effluent

**Client Sample ID: EFFLUENT UNIT 1**

**Lab Sample ID: 180-92058-1**

**Date Collected: 06/27/19 13:00**

**Matrix: Water**

**Date Received: 06/28/19 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	283521	07/01/19 07:54	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			284064	07/05/19 15:57	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	283910	07/03/19 17:24	KAK	TAL PIT
Total/NA	Analysis	EPA 7470A		2			283963	07/05/19 06:23	RJR	TAL PIT
Instrument ID: HGY										

### 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

KAK = Kayla Kalamasz

RJR = Ron Rosenbaum

Batch Type: Analysis

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

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

Job ID: 180-92058-1  
 SDG: Effluent

**Client Sample ID: EFFLUENT UNIT 1**

**Lab Sample ID: 180-92058-1**

Date Collected: 06/27/19 13:00

Matrix: Water

Date Received: 06/28/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Arsenic</b>	<b>0.046</b>		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Barium</b>	<b>0.21</b>	<b>B</b>	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Beryllium</b>	<b>0.0010</b>		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Cadmium</b>	<b>0.0014</b>		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Cobalt</b>	<b>0.0048</b>		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Chromium</b>	<b>0.032</b>		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Copper</b>	<b>0.018</b>		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Nickel</b>	<b>0.035</b>		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Lead</b>	<b>0.022</b>		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Antimony</b>	<b>0.0029</b>		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Selenium</b>	<b>0.29</b>		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Thallium</b>	<b>0.0015</b>		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Vanadium</b>	<b>0.019</b>		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 15:57	1
<b>Zinc</b>	<b>0.041</b>		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 15:57	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.015</b>		0.00040	0.00020	mg/L		07/03/19 17:24	07/05/19 06:23	2

# QC Sample Results

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

Job ID: 180-92058-1  
SDG: Effluent

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-283521/1-A**  
**Matrix: Water**  
**Analysis Batch: 284064**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00012		0.0010	0.00012	mg/L		07/01/19 07:54	07/05/19 14:52	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		07/01/19 07:54	07/05/19 14:52	1
Barium	0.00235	J	0.010	0.0015	mg/L		07/01/19 07:54	07/05/19 14:52	1
Beryllium	<0.00016		0.0010	0.00016	mg/L		07/01/19 07:54	07/05/19 14:52	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 14:52	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		07/01/19 07:54	07/05/19 14:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		07/01/19 07:54	07/05/19 14:52	1
Copper	<0.00063		0.0020	0.00063	mg/L		07/01/19 07:54	07/05/19 14:52	1
Nickel	<0.00031		0.0010	0.00031	mg/L		07/01/19 07:54	07/05/19 14:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 14:52	1
Antimony	<0.00038		0.0020	0.00038	mg/L		07/01/19 07:54	07/05/19 14:52	1
Selenium	<0.0026		0.0050	0.0026	mg/L		07/01/19 07:54	07/05/19 14:52	1
Thallium	<0.00013		0.0010	0.00013	mg/L		07/01/19 07:54	07/05/19 14:52	1
Vanadium	<0.00090		0.0010	0.00090	mg/L		07/01/19 07:54	07/05/19 14:52	1
Zinc	<0.0032		0.0050	0.0032	mg/L		07/01/19 07:54	07/05/19 14:52	1

**Lab Sample ID: LCS 180-283521/2-A**  
**Matrix: Water**  
**Analysis Batch: 284092**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 283521**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.250	0.253		mg/L		101	80 - 120
Arsenic	1.00	1.08		mg/L		108	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.505		mg/L		101	80 - 120
Cadmium	0.500	0.524		mg/L		105	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Chromium	0.500	0.539		mg/L		108	80 - 120
Copper	0.500	0.547		mg/L		109	80 - 120
Nickel	0.500	0.554		mg/L		111	80 - 120
Lead	0.500	0.532		mg/L		106	80 - 120
Antimony	0.250	0.273		mg/L		109	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Vanadium	0.500	0.537		mg/L		107	80 - 120
Zinc	0.250	0.278		mg/L		111	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-283910/1-A**  
**Matrix: Water**  
**Analysis Batch: 283958**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 283910**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		07/03/19 17:24	07/04/19 14:13	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

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

Job ID: 180-92058-1  
SDG: Effluent

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-283910/2-A  
Matrix: Water  
Analysis Batch: 283958

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 283910  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00244		mg/L		97	80 - 120

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# QC Association Summary

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

Job ID: 180-92058-1  
SDG: Effluent

## Metals

### Prep Batch: 283521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92058-1	EFFLUENT UNIT 1	Total Recoverable	Water	3005A	
MB 180-283521/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-283521/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 283910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92058-1	EFFLUENT UNIT 1	Total/NA	Water	7470A	
MB 180-283910/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-283910/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 283958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-283910/1-A	Method Blank	Total/NA	Water	EPA 7470A	283910
LCS 180-283910/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	283910

### Analysis Batch: 283963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92058-1	EFFLUENT UNIT 1	Total/NA	Water	EPA 7470A	283910

### Analysis Batch: 284064

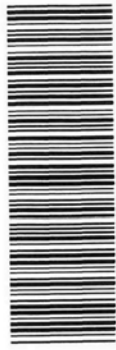
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-92058-1	EFFLUENT UNIT 1	Total Recoverable	Water	EPA 6020	283521
MB 180-283521/1-A	Method Blank	Total Recoverable	Water	EPA 6020	283521

### Analysis Batch: 284092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-283521/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	283521

Chain of Custody Record

<b>Client Information</b> Client Contact: Joji Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Phone: (770) 599-3494 Garnier Tracking No(s): Job #:	
Due Date Requested: TAT Requested (days): <b>3 DAY</b> PO #: SCS10347656 WO #: Project #: 18019922 SSOW#:		Analysis Requested Total Number of Containers: 1 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 Effluent Unit 1 Sample Date: 6-27-19 Sample Time: 1300 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=ore/slime, BT=TISSUE, AS=Air)		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> State Permit Metals (EPA 6020 & 7470) As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, Zn, Hg Special Instructions/Note: STATE METALS LIST ONLY	
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: [Signature] Relinquished by: [Signature] Relinquished by: [Signature] Date: 6/27/19 Date/Time: 1530 Date/Time: 1530 Date/Time: 1530 Company: ACC Company: EVA Company: EVA		Method of Shipment: Date/Time: 6/27/19 Date/Time: 1530 Date/Time: 1530 Company: EVA Company: EVA Company: EVA	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	







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Te

ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093  
UNITED STATES US

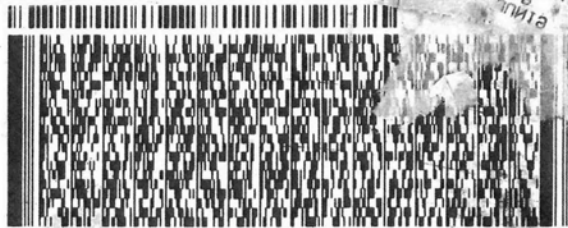
TO **SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE  
RIDC PARK  
PITTSBURGH PA 15238**

(412) 963-7068

REF:

INV:

PO:



FedEx  
Express



1 of 2

TRK# 4651 0082 5408  
0201

## MASTER ##

**FRI - 28 JUN 3:00P  
STANDARD OVERNIGHT**

**NA AGCA**

15238

PA-US PIT

Uncorrected temp  
Thermometer ID

26 °C

10

CF 0.3 Initials TJ

PT-A-SR-001 effective 11/8/18



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ORIGIN ID: MULA (678) 966-9991  
 GEORGE TAYLOR  
 EUROFINSTESTAMERICA, ATLANTA  
 6500 MCDONOUGH DRIVE  
 NORCROSS, GA 30093  
 UNITED STATES US

SHIP DATE: 27 JUN 19  
 ACTWGT: 54.25 LB  
 CAD: 859116/CAFE3211

BILL THIRD PARTY

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7068  
 JHU:  
 PO:



**FRI - 29 JUN 3:00P**  
**ANDALOVERNIGHT**

2 of 2  
 MPS# 4651 0082 5419  
 0263  
 Mstr# 4651 0082 5408

**NADCA**  
 Uncorrected temp  
 Thermometer ID

CF 0.2 Initials P

PT-WI-SR-001 effective 11/6/18



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-92058-1

SDG Number: Effluent

**Login Number: 92058**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	



Product Name: Low-Flow System

Date: 2019-06-27 13:07:00

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR-Plant Wansley-Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length ft  
Pump placement from TOC ft

Well Information:

Well ID Effluent Unit 1  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 60 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:04:14	60.03	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:05:14	120.03	6.19	8217.71	136.00	--	6.45	63.85
Last 5		34.41	6.32	8268.21	136.00	--	6.54	60.36
Last 5		nan	nan	nan	nan		nan	nan
Variance 0		-0.04	0.12	50.50			0.09	-3.49
Variance 1		0.00	0.00	0.00			0.00	0.00
Variance 2								

Notes

Sampled at 1300 on 6-27-19. Sunny, 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-27 12:26:54

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR-Plant Wansley-Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length

Pump placement from TOC ft

**Well Information:**

Well ID SWA-1  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 120 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:26:02	120.04	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			27.87	6.64	44.73	9.80		8.12	-7.97
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1215 on 6-27-19. Sunny 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-27 11:30:33

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hach 2100Q

**Pump Information:**

Pump Model/Type: in  
Tubing Type: ft  
Tubing Diameter: in  
Tubing Length: ft  
Pump placement from TOC: ft

**Well Information:**

Well ID: SWA-6  
Well diameter: 0 mL/min  
Well Total Depth: 0.09 L  
Screen Length: 60 sec  
Depth to Water: 0 in  
0 L

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 60 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:28:31	26.67	6.53	90.45	--	8.03	85.74
Last 5	11:29:31	26.54	6.53	91.10	--	8.12	84.63
Last 5							
Last 5							
Variance 0		nan	nan	nan		nan	nan
Variance 1		-0.14	-0.01	0.65		0.09	-1.11
Variance 2		0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1120 on 6-27-19. Cloudy 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-27 12:03:30

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hach 2100Q

**Pump Information:**

Pump Model/Type:   
Tubing Type:   
Tubing Diameter: in  
Tubing Length: ft  
  
Pump placement from TOC: ft

**Well Information:**

Well ID: SWC-2  
Well diameter: in  
Well Total Depth: ft  
Screen Length: ft  
Depth to Water: ft

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 60 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:02:33	60.04	+/- 0 24.09	+/- 0.1 6.01	+/- 5% 306.41	+/- 0 56.20	--	+/- 10% 3.67	+/- 0 26.33
Last 5									
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan	nan	nan	nan
Variance 1			0.00	0.00	0.00	0.00	0.00	0.00	0.00
Variance 2			0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Notes**

Sampled at 1200 on 6-27-19. Sunny 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-27 11:52:52

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR-Plant Wansley-Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length

Pump placement from TOC ft

**Well Information:**

Well ID SWC-3  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 60 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:51:15	60.04	+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	11:52:15	120.02	24.94	5.78	353.38	186.00	--	2.24	63.90
Last 5			24.66	5.80	356.94	186.00	--	2.06	58.45
Last 5			nan	nan	nan	nan		nan	nan
Variance 0			-0.28	0.02	3.56			-0.19	-5.45
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2									

**Notes**

Sampled at 1145 on 6-27-19. Cloudy 80s.

Grab Samples



Product Name: Low-Flow System

Date: 2019-06-27 11:08:27

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR-Plant Wansley-Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length  
Pump placement from TOC ft

**Well Information:**

Well ID SWC-5  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 120 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:04:59	23.83	5.71	238.40	--	6.58	114.63
Last 5	11:06:59	24.27	5.72	239.02	--	6.62	111.74
Last 5							
Last 5							
Variance 0		nan	nan	nan		nan	nan
Variance 1		0.43	0.01	0.62		0.03	-2.88
Variance 2		0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1100 on 6-27-19. Sunny 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-27 12:44:22

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR-Plant Wansley-Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length  
Pump placement from TOC ft

Well Information:

Well ID SWC-7  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 120 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:43:06	120.04	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			26.81	6.64	81.29	2.80		8.02	15.72
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

Sampled at 1240 on 6-27-19. Cloudy 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-24 16:32:30

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hack 2100Q

**Pump Information:**

Pump Model/Type: Peristaltic Pump  
Tubing Type: poly  
Tubing Diameter: .17 in  
Tubing Length: 44 ft  
Pump placement from TOC: 39 ft

**Well Information:**

Well ID: GWA-1  
Well diameter: 2 in  
Well Total Depth: 49.85 ft  
Screen Length: 10 ft  
Depth to Water: 18.45 ft

**Pumping Information:**

Final Pumping Rate: 100 mL/min  
Total System Volume: 0.2863906 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 27 in  
Total Volume Pumped: 3.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 0
Last 5	16:09:18	22.07	5.31	22.04	2.80	20.60	5.64	112.00
Last 5	16:14:18	22.56	5.30	23.68	3.50	20.60	6.65	116.76
Last 5	16:19:18	22.60	5.30	21.34	3.90	20.60	5.77	115.80
Last 5	16:24:18	22.51	5.29	21.33	3.30	20.70	5.82	118.23
Last 5	16:29:18	22.33	5.30	21.46	3.20	20.70	5.64	118.90
Variance 0		0.05	-0.00	-2.34			-0.88	-0.96
Variance 1		-0.10	-0.02	-0.00			0.05	2.43
Variance 2		-0.17	0.01	0.12			-0.19	0.67

**Notes**

Sampled at 1630 on 6-24-19. Cloudy, 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-24 14:59:45

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 65 ft  
Pump placement from TOC 55 ft

**Well Information:**

Well ID GWA-2  
Well diameter 2 in  
Well Total Depth 60.07 ft  
Screen Length 10 ft  
Depth to Water 41.53 ft

**Pumping Information:**

Final Pumping Rate 240 mL/min  
Total System Volume 0.7751225 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 20 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	14:35:07	19.06	5.74	72.90	8.10	40.70	6.78	71.29
Last 5	14:40:08	19.15	5.74	72.91	7.20	40.70	6.77	71.08
Last 5	14:45:08	19.33	5.74	72.58	6.20	40.70	6.63	71.17
Last 5	14:50:08	19.42	5.75	72.94	5.40	40.70	6.72	71.02
Last 5	14:55:10	19.52	5.75	72.86	4.20	40.70	6.67	70.34
Variance 0		0.18	-0.00	-0.32			-0.14	0.09
Variance 1		0.08	0.01	0.36			0.08	-0.15
Variance 2		0.11	-0.00	-0.08			-0.04	-0.68

**Notes**

Sampled at 1455 on 6-24-19. 87F cloudy.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-24 16:55:46

Project Information:

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 35 ft  
Pump placement from TOC 27 ft

Well Information:

Well ID GWA-3  
Well diameter 2 in  
Well Total Depth 31.16 ft  
Screen Length 10 ft  
Depth to Water 21.64 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
Total System Volume 0.6412198 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 100 in  
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	16:35:05	17.90	5.69	182.71	22.00	26.40	5.36	81.85
Last 5	16:40:05	17.90	5.71	183.13	24.00	27.00	5.31	82.07
Last 5	16:45:05	17.88	5.67	187.79	20.00	27.50	5.27	82.60
Last 5	16:50:05	17.99	5.67	186.64	23.00	27.90	5.30	82.40
Last 5	16:55:06	18.15	5.68	187.40	21.00	28.50	5.36	82.34
Variance 0		-0.03	-0.04	4.67			-0.05	0.53
Variance 1		0.11	-0.00	-1.16			0.03	-0.20
Variance 2		0.16	0.01	0.77			0.06	-0.06

Notes

No sample collected. Well purged dry.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-25 10:03:32

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 35 ft  
Pump placement from TOC 26 ft

**Well Information:**

Well ID GWA-3  
Well diameter 2 in  
Well Total Depth 31.16 ft  
Screen Length 10 ft  
Depth to Water 23.30 ft

**Pumping Information:**

Final Pumping Rate 110 mL/min  
Total System Volume 0.6412198 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5 in  
Total Volume Pumped 2.75 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	09:45:37	20.24	5.60	194.44	15.00	23.60	5.96	95.88
Last 5	09:50:37	20.22	5.59	192.96	8.75	23.70	5.85	92.28
Last 5	09:55:38	20.49	5.58	192.48	8.29	23.70	5.74	89.78
Last 5	10:00:38	20.57	5.58	192.07	4.67	23.80	5.72	88.32
Last 5								
Variance 0		-0.02	-0.02	-1.49			-0.10	-3.60
Variance 1		0.27	-0.00	-0.48			-0.11	-2.50
Variance 2		0.08	-0.00	-0.41			-0.02	-1.46

**Notes**

Sampled at 1000. 77F Sunny.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-24 17:10:29

Project Information:

Operator Name Chris Parker  
 Company Name ACC  
 Project Name CCR - Plant Wansley - Landfill  
 Site Name Plant Wansley  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 588863  
 Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peripump  
 Tubing Type Poly  
 Tubing Diameter .17 in  
 Tubing Length 41 ft  
 Pump placement from TOC 35 ft

Well Information:

Well ID GWA-4  
 Well diameter 2 in  
 Well Total Depth 40.61 ft  
 Screen Length 10 ft  
 Depth to Water 21.29 ft

Pumping Information:

Final Pumping Rate 220 mL/min  
 Total System Volume 0.2730004 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 3 in  
 Total Volume Pumped 11 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	16:48:42	1499.99	19.41	6.10	305.15	9.37	21.60	1.11	64.43
Last 5	16:53:42	1799.98	19.36	6.12	290.73	7.30	21.60	1.04	61.13
Last 5	16:58:42	2099.97	19.43	6.11	280.88	6.95	21.60	1.00	59.58
Last 5	17:03:42	2399.97	19.95	6.12	270.57	5.11	21.60	0.95	57.42
Last 5	17:08:42	2699.96	19.90	6.12	259.86	4.15	21.60	0.94	56.65
Variance 0			0.07	-0.00	-9.85			-0.04	-1.56
Variance 1			0.52	0.01	-10.31			-0.05	-2.16
Variance 2			-0.05	-0.00	-10.71			-0.01	-0.77

Notes

Sampled at 17:10. Sunny 90s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-25 11:04:12

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 46 ft  
Pump placement from TOC 40 ft

**Well Information:**

Well ID GWA-28  
Well diameter 2 in  
Well Total Depth 45.78 ft  
Screen Length 10 ft  
Depth to Water 25.10 ft

**Pumping Information:**

Final Pumping Rate 150 mL/min  
Total System Volume 0.2292464 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 38 in  
Total Volume Pumped 6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	10:40:47	21.10	6.02	63.40	1.42	27.70	6.20	146.34
Last 5	10:45:47	21.60	6.03	64.03	1.76	27.90	6.38	136.52
Last 5	10:50:47	21.48	6.03	63.63	1.42	28.00	6.36	129.72
Last 5	10:55:49	21.64	6.03	62.83	0.71	28.10	6.35	123.45
Last 5	11:00:49	21.89	6.03	63.07	1.37	28.20	6.33	120.76
Variance 0		-0.12	0.00	-0.40			-0.02	-6.80
Variance 1		0.16	-0.00	-0.80			-0.01	-6.27
Variance 2		0.25	-0.00	0.24			-0.02	-2.69

**Notes**

Sampled at 11:00. Sunny, high 80's.

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-06-25 11:46:55

Project Information:

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 65 ft

Pump placement from TOC 52 ft

Well Information:

Well ID GWA-29  
Well diameter 2 in  
Well Total Depth 57.13 ft  
Screen Length 10 ft  
Depth to Water 43.35 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.7751225 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 12 in  
Total Volume Pumped 10.25 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	11:25:45	19.82	5.98	89.81	11.00	44.40	5.28	64.91
Last 5	11:30:45	19.79	5.96	88.62	9.23	44.40	5.33	65.79
Last 5	11:35:45	19.64	5.97	87.42	8.13	44.40	5.40	66.23
Last 5	11:40:45	19.77	5.96	86.62	6.44	44.40	5.44	66.49
Last 5	11:45:45	19.64	5.96	86.52	4.89	44.40	5.46	67.68
Variance 0		-0.15	0.01	-1.20			0.07	0.44
Variance 1		0.13	-0.01	-0.80			0.04	0.26
Variance 2		-0.13	-0.00	-0.11			0.02	1.19

Notes

Sampled at 1145. Sunny 81F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-26 13:13:07

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hach 2100Q

**Pump Information:**

Pump Model/Type: Peristaltic Pump  
Tubing Type: poly  
Tubing Diameter: .17 in  
Tubing Length: 40 ft  
Pump placement from TOC: 35 ft

**Well Information:**

Well ID: GWC-5  
Well diameter: 2 in  
Well Total Depth: 40.68 ft  
Screen Length: 10 ft  
Depth to Water: 17.13 ft

**Pumping Information:**

Final Pumping Rate: 110 mL/min  
Total System Volume: 0.2685369 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 25.44 in  
Total Volume Pumped: 9.4 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	12:51:14	21.62	6.56	334.16	8.10	19.20	0.45	28.08
Last 5	12:56:14	21.69	6.52	328.33	7.30	19.20	0.49	29.42
Last 5	13:01:14	21.04	6.47	328.19	6.80	19.20	0.61	31.29
Last 5	13:06:14	20.68	6.45	326.37	5.60	19.20	0.61	32.90
Last 5	13:11:14	20.42	6.42	325.18	4.80	19.25	0.65	34.15
Variance 0		-0.64	-0.06	-0.13			0.13	1.87
Variance 1		-0.36	-0.02	-1.82			-0.01	1.61
Variance 2		-0.27	-0.02	-1.20			0.04	1.25

**Notes**

Sampled at 1315 on 6-26-19. Cloudy, 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-26 14:04:45

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hach 2100Q

**Pump Information:**

Pump Model/Type: Peristaltic Pump  
Tubing Type: poly  
Tubing Diameter: .17 in  
Tubing Length: 31 ft  
Pump placement from TOC: 26 ft

**Well Information:**

Well ID: GWC-6  
Well diameter: 2 in  
Well Total Depth: 31.08 ft  
Screen Length: 10 ft  
Depth to Water: 18.12 ft

**Pumping Information:**

Final Pumping Rate: 200 mL/min  
Total System Volume: 0.2283661 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 2.2 in  
Total Volume Pumped: 6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:42:40	20.78	5.90	167.88	1.30	18.30	0.30	+/- 0
Last 5	13:47:40	20.21	5.86	171.04	1.60	18.30	0.23	52.06
Last 5	13:52:58	20.19	5.84	171.56	1.40	18.30	0.16	54.88
Last 5	13:57:58	20.13	5.82	168.46	1.30	18.30	0.15	57.03
Last 5	14:02:58	20.33	5.82	168.64	1.20	18.30	0.27	58.82
Variance 0		-0.02	-0.02	0.53			-0.07	59.21
Variance 1		-0.06	-0.02	-3.10			-0.01	2.15
Variance 2		0.20	-0.00	0.18			0.12	1.79

**Notes**

Sampled at 1405 on 6-26-19. Cloudy 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 11:11:15

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR-Plant Wansley-Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 26 ft  
Pump placement from TOC 20 ft

**Well Information:**

Well ID GWC-7  
Well diameter 2 in  
Well Total Depth 25.90 ft  
Screen Length 10 ft  
Depth to Water 7.75 ft

**Pumping Information:**

Final Pumping Rate 80 mL/min  
Total System Volume 0.206049 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 21 in  
Total Volume Pumped 2.4 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0	+/- 0.1	+/- 5%		+/- 10%	+/- 0
Last 5	10:50:26	300.11	22.92	6.18	660.63	8.90	0.40	83.24
Last 5	10:55:26	600.02	23.05	6.21	659.19	9.10	0.32	76.02
Last 5	11:00:26	900.02	23.68	6.22	659.33	9.20	0.31	71.92
Last 5	11:05:26	1200.02	23.05	6.23	655.18	9.40	0.21	69.08
Last 5	11:10:26	1500.01	23.05	6.23	652.88	9.50	0.20	66.96
Variance 0			0.63	0.01	0.14		-0.01	-4.10
Variance 1			-0.63	0.01	-4.15		-0.10	-2.84
Variance 2			0.00	0.01	-2.31		-0.01	-2.11

**Notes**

Sampled at 1115 on 6-25-19. Sunny, 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 12:08:46

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hach 2100Q

**Pump Information:**

Pump Model/Type: Peristaltic Pump  
Tubing Type: poly  
Tubing Diameter: .17 in  
Tubing Length: 20 ft  
Pump placement from TOC: 15 ft

**Well Information:**

Well ID: GWC-8  
Well diameter: 2 in  
Well Total Depth: 20.03 ft  
Screen Length: 10 ft  
Depth to Water: 9.32 ft

**Pumping Information:**

Final Pumping Rate: 200 mL/min  
Total System Volume: 0.1792685 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 3.4 in  
Total Volume Pumped: 6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	11:46:36	22.07	6.01	283.40	1.80	9.50	0.21	56.75
Last 5	11:51:36	21.91	5.97	291.52	1.40	9.50	0.16	47.73
Last 5	11:56:36	21.89	5.90	297.73	1.50	9.55	0.13	41.36
Last 5	12:01:36	21.73	5.87	299.68	1.40	9.60	0.12	38.21
Last 5	12:06:36	21.56	5.85	305.91	1.20	9.60	0.10	36.93
Variance 0		-0.02	-0.07	6.22			-0.03	-6.37
Variance 1		-0.16	-0.03	1.94			-0.02	-3.15
Variance 2		-0.17	-0.02	6.23			-0.02	-1.28

**Notes**

Sampled at 1210 on 6-25-19. Sunny, 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 14:15:19

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hach 2100Q

**Pump Information:**

Pump Model/Type: Peristaltic Pump  
Tubing Type: poly  
Tubing Diameter: .17 in  
Tubing Length: 19 ft  
Pump placement from TOC: 14 ft

**Well Information:**

Well ID: GWC-9  
Well diameter: 2 in  
Well Total Depth: 19.41 ft  
Screen Length: 10 ft  
Depth to Water: 7.56 ft

**Pumping Information:**

Final Pumping Rate: 200 mL/min  
Total System Volume: 0.1748051 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 6.5 in  
Total Volume Pumped: 14 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:35:50	23.01	5.72	248.26	7.00	8.10	0.14	31.85
Last 5	13:41:09	22.96	5.72	247.20	6.40	8.10	0.13	31.99
Last 5	13:46:09	23.05	5.71	247.81	6.50	8.15	0.13	32.04
Last 5	13:51:09	22.72	5.72	248.64	5.40	8.15	0.11	32.35
Last 5	13:56:09	22.87	5.71	250.13	4.90	8.15	0.11	32.33
Variance 0		0.09	-0.00	0.61			-0.00	0.05
Variance 1		-0.34	0.00	0.83			-0.01	0.31
Variance 2		0.15	-0.00	1.49			-0.00	-0.02

**Notes**

Sampled at 1400 on 6-25-19. Cloudy, 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-26 10:51:17

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hach 2100Q

**Pump Information:**

Pump Model/Type: Peristaltic Pump  
Tubing Type: poly  
Tubing Diameter: .17 in  
Tubing Length: 22 ft  
Pump placement from TOC: 18 ft

**Well Information:**

Well ID: GWC-10  
Well diameter: 2 in  
Well Total Depth: 22.0 ft  
Screen Length: 10 ft  
Depth to Water: 11.76 ft

**Pumping Information:**

Final Pumping Rate: 100 mL/min  
Total System Volume: 0.1881953 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 11.3 in  
Total Volume Pumped: 1 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:49:54	300.04	+/- 0	+/- 5%	+/- 0	12.70	+/- 10%	+/- 0
Last 5		20.55	5.78	201.55	8.90		2.11	44.10
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1055 on 6-26-19. Cloudy 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 15:12:32

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: CCR-Plant Wansley-Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 647057  
Turbidity Make/Model: Hach 2100Q

**Pump Information:**

Pump Model/Type: Peristaltic Pump  
Tubing Type: poly  
Tubing Diameter: .17 in  
Tubing Length: 22 ft  
Pump placement from TOC: 18 ft

**Well Information:**

Well ID: GWC-10  
Well diameter: 2 in  
Well Total Depth: 22 ft  
Screen Length: 10 ft  
Depth to Water: 11.62 ft

**Pumping Information:**

Final Pumping Rate: 300 mL/min  
Total System Volume: 0.1881953 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 94.6 in  
Total Volume Pumped: 10.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:46:22	20.87	5.88	213.65	6.40	13.80	+/- 10%	+/- 0
Last 5	14:51:22	21.09	5.76	207.46	6.20	14.80	0.24	53.76
Last 5	14:56:22	21.23	5.74	210.02	4.60	15.90	0.39	56.66
Last 5	15:01:22	21.17	5.86	235.86	3.50	16.70	0.90	57.06
Last 5	15:06:22	21.07	5.92	229.63	4.40	17.50	0.72	54.47
Variance 0		0.14	-0.02	2.55			0.74	53.68
Variance 1		-0.05	0.12	25.85			0.51	0.39
Variance 2		-0.11	0.06	-6.23			-0.17	-2.59

**Notes**

Purged dry. Allow overnight recharge. Sunny, 80s.

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-06-26 10:26:19

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR-Plant Wansley-Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 18 ft  
Pump placement from TOC 13 ft

**Well Information:**

Well ID GWC-11  
Well diameter 2 in  
Well Total Depth 18.23 ft  
Screen Length 10 ft  
Depth to Water 6.83 ft

**Pumping Information:**

Final Pumping Rate 250 mL/min  
Total System Volume 0.1703416 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.2 in  
Total Volume Pumped 7.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:01:08	22.34	5.84	291.53	0.95	6.85	0.41	+/- 0
Last 5	10:06:08	22.26	5.90	303.49	1.60	6.85	0.30	42.44
Last 5	10:11:08	22.27	5.93	316.17	1.20	6.85	0.24	29.07
Last 5	10:16:08	22.29	5.95	325.25	1.40	6.85	0.20	20.16
Last 5	10:21:08	22.28	5.97	325.12	1.20	6.85	0.16	13.29
Variance 0		0.01	0.03	12.68			-0.06	8.11
Variance 1		0.02	0.02	9.08			-0.03	-8.91
Variance 2		-0.01	0.01	-0.13			-0.04	-6.87

**Notes**

Sampled at 1025 on 6-26-19. Cloudy, 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-26 11:12:03

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 40 ft  
Pump placement from TOC 35 ft

**Well Information:**

Well ID GWC-12  
Well diameter 2 in  
Well Total Depth 40.63 ft  
Screen Length 10 ft  
Depth to Water 27.01 ft

**Pumping Information:**

Final Pumping Rate 80 mL/min  
Total System Volume 0.2110839 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 42 in  
Total Volume Pumped 6.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:50:28	22.00	7.27	310.87	9.66	30.10	+/- 0.3	+/- 10
Last 5	10:55:28	21.91	7.28	311.93	7.63	30.20	1.30	57.43
Last 5	11:00:28	21.71	7.29	313.53	7.58	30.30	1.25	53.54
Last 5	11:05:28	21.72	7.29	313.35	5.31	30.40	1.19	42.04
Last 5	11:10:28	21.73	7.28	313.33	4.45	30.50	1.17	38.77
Variance 0		-0.20	0.01	1.60			1.16	40.75
Variance 1		0.02	0.00	-0.18			-0.06	-11.50
Variance 2		0.01	-0.00	-0.02			-0.02	-3.27

**Notes**

Sampled at 11:10. Cloudy, 80's. FB-3 here.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 10:55:19

**Project Information:**

Operator Name Chris Parker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model Hach 2100 Q

**Pump Information:**

Pump Model/Type Peripump  
Tubing Type Poly  
Tubing Diameter .17 in  
Tubing Length 90 ft

Pump placement from TOC 85 ft

**Well Information:**

Well ID GWC-13  
Well diameter 2 in  
Well Total Depth 90.42 ft  
Screen Length 10 ft  
Depth to Water 5.92 ft

**Pumping Information:**

Final Pumping Rate 260 mL/min  
Total System Volume 0.491708 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 10.4 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:33:06	600.01	19.11	+/- 0	+/- 0		+/- 10%	+/- 0
Last 5	10:38:06	900.00	19.02	70.59	2.23	6.10	3.93	89.04
Last 5	10:43:06	1199.99	18.94	70.12	1.43	6.10	3.95	88.21
Last 5	10:48:06	1499.99	18.78	69.42	1.54	6.20	4.01	89.15
Last 5	10:53:06	1799.98	18.78	69.37	1.05	6.20	4.12	89.30
Variance 0		-0.08	-0.02	69.92	1.37	6.20	4.32	90.43
Variance 1		-0.16	0.00	-0.70			0.06	0.94
Variance 2		-0.00	-0.00	-0.05			0.11	0.15
				0.56			0.20	1.13

**Notes**

Sampled at 10:55. Sunny 80s. DUP 1 here

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 12:10:38

Project Information:

Operator Name Chris Parker  
 Company Name ACC  
 Project Name CCR - Plant Wansley - Landfill  
 Site Name Plant Wansley  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 588863  
 Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peripump  
 Tubing Type Poly  
 Tubing Diameter .17 in  
 Tubing Length 25 ft  
 Pump placement from TOC 20 ft

Well Information:

Well ID GWC-14  
 Well diameter 2 in  
 Well Total Depth 24.55 ft  
 Screen Length 10 ft  
 Depth to Water 9.53 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
 Total System Volume 0.2015856 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 2 in  
 Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5 11:47:25	1200.00	18.75	5.46	520.53	11.00	9.70	0.09	94.61
Last 5 11:52:25	1499.99	18.88	5.47	504.40	8.79	9.70	0.09	93.84
Last 5 11:57:25	1799.99	18.82	5.48	503.39	6.27	9.70	0.08	92.93
Last 5 12:02:25	2099.98	18.74	5.49	499.00	5.08	9.70	0.08	92.32
Last 5 12:07:25	2399.97	18.65	5.49	497.90	4.78	9.70	0.07	92.16
Variance 0		-0.06	0.01	-1.01			-0.00	-0.91
Variance 1		-0.08	0.01	-4.39			-0.00	-0.61
Variance 2		-0.09	0.00	-1.11			-0.01	-0.16

Notes

Sampled at 12:10. Sunny 80s

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-25 13:18:00

Project Information:

Operator Name Chris Parker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peripump  
Tubing Type Poly  
Tubing Diameter .17 in  
Tubing Length 51 ft  
Pump placement from TOC 46 ft

Well Information:

Well ID GWC-15  
Well diameter 2 in  
Well Total Depth 51.06 ft  
Screen Length 10 ft  
Depth to Water 6.48 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.3176346 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 8.4 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:52:51	19.62	6.44	131.30	2.68	6.60	3.45	+/- 0
Last 5	12:57:51	19.41	6.43	132.01	3.25	6.60	3.41	96.78
Last 5	13:02:51	19.41	6.43	133.27	2.67	6.60	3.41	98.61
Last 5	13:07:51	19.31	6.42	133.09	1.84	6.60	3.38	100.58
Last 5	13:12:51	19.42	6.43	131.98	1.30	6.60	3.36	102.47
Variance 0		-0.00	-0.00	1.26			0.00	104.13
Variance 1		-0.10	-0.01	-0.19			-0.03	1.96
Variance 2		0.11	0.01	-1.11			-0.02	1.89

Notes

Sampled at 13:20. Sunny 80s.

Grab Samples

Product Name: Low-Flow System  
 Date: 2019-06-25 14:27:01

**Project Information:**

Operator Name: Chris Parker  
 Company Name: ACC  
 Project Name: CCR - Plant Wansley - Landfill  
 Site Name: Plant Wansley  
 Latitude: 0° 0' 0"  
 Longitude: 0° 0' 0"  
 Sonde SN: 588863  
 Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Peripump  
 Tubing Type: Poly  
 Tubing Diameter: .17 in  
 Tubing Length: 27 ft  
 Pump placement from TOC: 22 ft

**Well Information:**

Well ID: GWC-16  
 Well diameter: 2 in  
 Well Total Depth: 26.97 ft  
 Screen Length: 10 ft  
 Depth to Water: 10.33 ft

**Pumping Information:**

Final Pumping Rate: 200 mL/min  
 Total System Volume: 0.2105124 L  
 Calculated Sample Rate: 300 sec  
 Stabilization Drawdown: 2 in  
 Total Volume Pumped: 7 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:59:28	600.01	20.41	6.09	109.57	1.85	10.40	3.51	113.86
Last 5	14:04:28	899.99	20.69	6.08	109.60	1.68	10.50	3.49	118.74
Last 5	14:09:28	1200.00	19.44	6.06	108.36	1.97	10.50	3.48	125.85
Last 5	14:14:28	1499.99	19.46	6.07	109.18	1.03	10.50	3.51	130.21
Last 5	14:19:28	1799.98	19.81	6.08	108.54	0.81	10.50	3.49	134.08
Variance 0			-1.25	-0.01	-1.24			-0.01	7.10
Variance 1			0.02	0.01	0.82			0.03	4.37
Variance 2			0.35	0.01	-0.64			-0.03	3.87

**Notes**

Sampled at 14:25. Sunny 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 16:38:40

Project Information:

Operator Name Chris Parker  
 Company Name ACC  
 Project Name CCR - Plant Wansley - Landfill  
 Site Name Plant Wansley  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 588863  
 Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peripump  
 Tubing Type Poly  
 Tubing Diameter .17 in  
 Tubing Length 53 ft  
 Pump placement from TOC 48 ft

Well Information:

Well ID GWC-17  
 Well diameter 2 in  
 Well Total Depth 53.34 ft  
 Screen Length 10 ft  
 Depth to Water 20.43 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
 Total System Volume 0.3265614 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 26 in  
 Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	16:16:06	19.23	6.18	115.62	1.48	22.80	2.93	185.91
Last 5	16:21:06	19.58	6.17	116.85	1.17	22.80	2.55	187.13
Last 5	16:26:06	19.99	6.20	118.61	0.96	22.80	2.88	190.40
Last 5	16:31:06	19.91	6.13	123.57	1.43	22.70	3.14	192.43
Last 5	16:36:06	19.77	6.12	123.43	1.69	22.70	3.07	194.59
Variance 0		0.41	0.03	1.76			0.33	3.27
Variance 1		-0.08	-0.07	4.96			0.25	2.03
Variance 2		-0.14	-0.01	-0.14			-0.06	2.16

Notes

Sampled at 16:40. Sunny 80s. EB-2 here at 15:40- Peripump tubing

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-27 10:21:47

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name CCR-Plant Wansley-Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 30 ft  
Pump placement from TOC 25 ft

**Well Information:**

Well ID GWC-18  
Well diameter 2 in  
Well Total Depth 30.51 ft  
Screen Length 10 ft  
Depth to Water 14.05 ft

**Pumping Information:**

Final Pumping Rate 150 mL/min  
Total System Volume 0.2239027 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.8 in  
Total Volume Pumped 4.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	09:59:52	18.57	5.76	96.11	0.70	14.20	0.70	92.71
Last 5	10:04:52	18.10	5.76	95.15	0.50	14.20	0.61	85.37
Last 5	10:09:52	18.04	5.78	95.96	0.40	14.20	0.58	81.83
Last 5	10:14:52	18.13	5.77	96.38	0.90	14.20	0.57	80.94
Last 5	10:19:52	18.02	5.78	95.27	0.40	14.20	0.54	79.96
Variance 0		-0.06	0.01	0.81			-0.03	-3.54
Variance 1		0.09	-0.01	0.41			-0.01	-0.89
Variance 2		-0.11	0.01	-1.10			-0.03	-0.98

**Notes**

Sampled at 1025 on 6-27-19. EB-4-6-27-19 here at 1010, gloves. Dup-4 here. Cloudy, 70s.

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-06-26 15:02:20

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 38 ft  
Pump placement from TOC 33 ft

**Well Information:**

Well ID GWC-19  
Well diameter 2 in  
Well Total Depth 38.56 ft  
Screen Length 10 ft  
Depth to Water 8.72 ft

**Pumping Information:**

Final Pumping Rate 200 mL/min  
Total System Volume 0.2050297 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization		+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	14:41:56	21.11	5.79	76.76	5.35	9.80	0.17	125.51
Last 5	14:46:56	20.91	5.78	77.04	5.92	9.80	0.18	125.87
Last 5	14:51:56	20.80	5.78	76.34	5.95	9.80	0.20	125.82
Last 5	14:56:56	20.76	5.78	76.63	5.12	9.80	0.21	127.12
Last 5	15:01:56	20.88	5.78	77.03	4.88	9.80	0.21	128.57
Variance 0		-0.10	-0.00	-0.70			0.02	-0.05
Variance 1		-0.05	-0.00	0.30			0.01	1.30
Variance 2		0.13	-0.00	0.39			-0.00	1.44

**Notes**

Sampled at 15:01. Cloudy 80's.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 16:39:36

Project Information:

Operator Name Ryan Walker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 71 ft  
Pump placement from TOC 66 ft

Well Information:

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth 71.08 ft  
Screen Length 10 ft  
Depth to Water 5.30 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.3049239 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 25 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	16:18:55	22.00	6.16	110.81	0.45	5.50	1.51	97.74
Last 5	16:23:55	21.60	6.14	111.68	0.62	5.50	1.37	96.01
Last 5	16:28:55	21.91	6.14	111.16	0.86	5.50	1.31	94.51
Last 5	16:33:55	22.27	6.15	110.80	0.82	5.50	1.30	93.73
Last 5	16:38:55	21.69	6.15	111.48	0.83	5.50	1.37	93.41
Variance 0		0.31	-0.01	-0.53			-0.05	-1.50
Variance 1		0.36	0.01	-0.36			-0.01	-0.78
Variance 2		-0.58	0.01	0.68			0.07	-0.32

Notes

Sampled at 16:38. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-25 14:06:40

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 38 ft  
Pump placement from TOC 33 ft

**Well Information:**

Well ID GWC-21  
Well diameter 2 in  
Well Total Depth 38.30 ft  
Screen Length 10 ft  
Depth to Water 13.67 ft

**Pumping Information:**

Final Pumping Rate 110 mL/min  
Total System Volume 0.2050297 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 32 in  
Total Volume Pumped 5.7 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	13:45:54	21.44	5.36	69.11	0.61	16.20	0.12	114.63
Last 5	13:50:54	21.73	5.36	69.70	0.69	16.20	0.11	113.77
Last 5	13:55:55	21.55	5.36	69.30	0.89	16.30	0.10	113.12
Last 5	14:00:55	21.10	5.36	68.43	0.66	16.30	0.09	113.02
Last 5	14:05:55	21.39	5.35	69.31	0.50	16.30	0.09	112.97
Variance 0		-0.18	-0.00	-0.40			-0.01	-0.65
Variance 1		-0.45	0.00	-0.86			-0.00	-0.10
Variance 2		0.29	-0.01	0.87			-0.00	-0.06

**Notes**

Sampled at 14:05. Sunny, 80's.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 12:54:18

Project Information:

Operator Name Ryan Walker  
 Company Name ACC  
 Project Name CCR - Plant Wansley - Landfill  
 Site Name Plant Wansley  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 466058  
 Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic pump  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 77 ft  
 Pump placement from TOC 72 ft

Well Information:

Well ID GWC-22  
 Well diameter 2 in  
 Well Total Depth 77.15 ft  
 Screen Length 10 ft  
 Depth to Water 22.31 ft

Pumping Information:

Final Pumping Rate 125 mL/min  
 Total System Volume 0.3230864 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 10 in  
 Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	12:32:13	20.42	6.62	132.35	0.75	23.00	5.24	111.72
Last 5	12:37:13	20.30	6.62	132.26	0.75	23.00	5.20	106.11
Last 5	12:42:13	20.45	6.65	133.08	0.70	23.00	5.24	102.73
Last 5	12:47:13	20.38	6.64	132.61	0.59	23.10	5.18	101.31
Last 5	12:52:13	20.48	6.59	132.21	0.82	23.10	4.96	99.00
Variance 0		0.14	0.03	0.82			0.05	-3.38
Variance 1		-0.07	-0.01	-0.48			-0.06	-1.42
Variance 2		0.10	-0.05	-0.39			-0.22	-2.31

Notes

Sampled at 12:52. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-26 12:47:28

Project Information:

Operator Name Ryan Walker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 68 ft  
Pump placement from TOC 63 ft

Well Information:

Well ID GWC-23  
Well diameter 2 in  
Well Total Depth 68.05 ft  
Screen Length 10 ft  
Depth to Water 33.48 ft

Pumping Information:

Final Pumping Rate 180 mL/min  
Total System Volume 0.5958426 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 17 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	12:26:37	19.63	5.88	49.06	4.12	34.90	5.06	126.64
Last 5	12:31:37	19.60	5.86	49.08	3.88	34.90	5.03	128.06
Last 5	12:36:37	19.58	5.85	49.13	2.64	34.90	5.00	129.56
Last 5	12:41:38	19.55	5.87	49.53	2.84	34.90	4.98	127.84
Last 5	12:46:38	19.61	5.86	49.07	2.06	34.90	4.94	128.78
Variance 0		-0.01	-0.01	0.05			-0.02	1.50
Variance 1		-0.03	0.02	0.40			-0.03	-1.72
Variance 2		0.06	-0.01	-0.46			-0.03	0.94

Notes

Sampled at 12:46. Cloudy 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-26 12:21:22

Project Information:

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 55 ft  
Pump placement from TOC 47 ft

Well Information:

Well ID GWC-24  
Well diameter 2 in  
Well Total Depth 51.10 ft  
Screen Length 10 ft  
Depth to Water 37.24 ft

Pumping Information:

Final Pumping Rate 60 mL/min  
Total System Volume 0.7304883 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10 in  
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	12:00:05	19.59	5.57	32.47	8.70	37.80	8.49	64.89
Last 5	12:05:05	19.64	5.58	32.45	8.20	37.80	8.44	63.93
Last 5	12:10:05	19.73	5.58	32.36	6.34	37.80	8.42	64.66
Last 5	12:15:07	19.85	5.58	32.17	5.80	37.90	8.29	64.77
Last 5	12:20:07	19.91	5.59	32.26	4.99	38.00	8.32	65.08
Variance 0		0.09	-0.00	-0.08			-0.03	0.73
Variance 1		0.12	-0.00	-0.20			-0.13	0.11
Variance 2		0.06	0.01	0.10			0.04	0.32

Notes

Sampled at 1220. 82F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-25 13:02:45

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 65 ft

Pump placement from TOC 56.23 ft

**Well Information:**

Well ID GWC-25  
Well diameter 2 in  
Well Total Depth 61.23 ft  
Screen Length 10 ft  
Depth to Water 47.71 ft

**Pumping Information:**

Final Pumping Rate 50 mL/min  
Total System Volume 0.7751225 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 15 in  
Total Volume Pumped 2.1 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	12:35:52	25.28	5.63	70.09	19.00	48.50	6.33	71.97
Last 5	12:40:52	24.54	5.67	70.38	15.00	48.60	6.34	69.81
Last 5	12:45:52	24.42	5.67	70.20	8.99	48.80	6.25	70.78
Last 5	12:55:53	24.06	5.66	69.84	4.60	48.90	6.20	72.01
Last 5	13:00:54	23.93	5.66	69.62	2.43	48.90	6.17	73.21
Variance 0		-0.12	-0.00	-0.18			-0.09	0.97
Variance 1		-0.36	-0.00	-0.36			-0.05	1.23
Variance 2		-0.13	-0.01	-0.22			-0.03	1.20

**Notes**

Sampled at 1300. Sunny 84F.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 14:22:05

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 65 ft  
Pump placement from TOC 54.43 ft

**Well Information:**

Well ID GWC-26  
Well diameter 2 in  
Well Total Depth 59.43 ft  
Screen Length 10 ft  
Depth to Water 24.98 ft

**Pumping Information:**

Final Pumping Rate 90 mL/min  
Total System Volume 0.7751225 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 18 in  
Total Volume Pumped 3 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	14:00:08	22.38	5.66	52.34	9.21	26.40	6.32	81.00
Last 5	14:05:09	22.72	5.70	51.99	7.32	26.50	6.29	78.91
Last 5	14:10:09	23.29	5.69	51.99	6.01	26.60	6.23	78.17
Last 5	14:15:09	23.73	5.69	51.17	5.51	26.60	6.12	78.38
Last 5	14:20:09	22.54	5.63	50.41	4.01	26.60	6.25	81.92
Variance 0		0.57	-0.01	0.01			-0.06	-0.74
Variance 1		0.44	0.00	-0.82			-0.10	0.21
Variance 2		-1.19	-0.05	-0.77			0.13	3.54

**Notes**

Sampled at 1420. 86F Sunny.

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-06-26 13:56:25

Project Information:

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 75 ft  
Pump placement from TOC 65.83 ft

Well Information:

Well ID GWC-27  
Well diameter 2 in  
Well Total Depth 70.83 ft  
Screen Length 10 ft  
Depth to Water 42.16 ft

Pumping Information:

Final Pumping Rate 75 mL/min  
Total System Volume 0.8197567 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 12 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	13:35:21	20.13	5.65	52.42	1.62	42.90	3.34	91.57
Last 5	13:40:22	20.43	5.70	56.17	1.38	43.00	3.28	90.61
Last 5	13:45:23	21.64	5.72	59.82	1.33	43.00	3.18	88.29
Last 5	13:50:24	23.34	5.73	60.36	1.18	43.10	3.09	86.97
Last 5	13:55:24	23.97	5.72	59.88	1.21	43.10	3.09	85.08
Variance 0		1.21	0.03	3.65			-0.11	-2.31
Variance 1		1.70	0.01	0.55			-0.09	-1.32
Variance 2		0.63	-0.01	-0.49			0.01	-1.90

Notes

Sample collected at 1355. 82F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-06-27 11:11:32

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peri. pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 55 ft  
Pump placement from TOC 44 ft

**Well Information:**

Well ID GWC-30  
Well diameter 2 in  
Well Total Depth 49.58 ft  
Screen Length 10 ft  
Depth to Water 26.16 ft

**Pumping Information:**

Final Pumping Rate 130 mL/min  
Total System Volume 0.3354883 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 17 in  
Total Volume Pumped 5.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	10:49:49	19.03	6.11	57.25	2.95	27.80	5.00	66.44
Last 5	10:54:52	19.10	6.14	41.54	1.95	27.80	5.18	65.92
Last 5	10:59:52	19.23	6.14	57.32	2.31	27.80	5.28	65.66
Last 5	11:04:52	19.33	6.13	57.34	1.76	27.80	5.35	65.31
Last 5	11:09:52	19.24	6.08	57.15	2.11	27.80	5.05	65.19
Variance 0		0.13	0.00	15.78			0.11	-0.26
Variance 1		0.10	-0.01	0.02			0.07	-0.35
Variance 2		-0.10	-0.05	-0.19			-0.30	-0.13

**Notes**

Samples at 1110. 85F cloudy.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-25 16:01:27

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 40 ft

Pump placement from TOC 35.86 ft

**Well Information:**

Well ID GWC-31  
Well diameter 2 in  
Well Total Depth 36.86 ft  
Screen Length 10 ft  
Depth to Water 30.2 ft

**Pumping Information:**

Final Pumping Rate 175 mL/min  
Total System Volume 0.6635369 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 58 in  
Total Volume Pumped 6.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	15:40:01	20.69	6.17	136.23	45.00	31.70	4.62	74.45
Last 5	15:45:01	20.32	6.16	135.41	41.00	32.50	4.61	74.64
Last 5	15:50:02	19.79	6.13	126.90	41.00	33.20	4.69	74.16
Last 5	15:55:03	19.26	6.13	128.21	32.00	33.90	4.82	74.11
Last 5	16:00:04	19.17	6.17	135.69	23.00	34.90	4.89	73.36
Variance 0		-0.53	-0.03	-8.50			0.08	-0.48
Variance 1		-0.54	0.00	1.31			0.12	-0.05
Variance 2		-0.09	0.04	7.48			0.08	-0.75

**Notes**

Well purged dry. No sample collected.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-26 10:21:43

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type QED Sample Pro BP  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 40 ft  
Pump placement from TOC 34 ft

**Well Information:**

Well ID GWC-31  
Well diameter 2 in  
Well Total Depth 36.86 ft  
Screen Length 10 ft  
Depth to Water 33.84 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.6635369 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 14 in  
Total Volume Pumped 1.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	10:00:44	21.42	6.18	140.43	19.00	34.60	5.53	77.54
Last 5	10:05:44	21.28	6.18	137.76	19.00	34.70	5.82	75.26
Last 5	10:10:44	21.40	6.18	133.19	11.70	34.80	6.43	74.00
Last 5	10:15:45	21.94	6.18	130.72	10.90	34.90	6.77	73.15
Last 5	10:20:46	22.84	6.18	130.74	9.80	35.00	6.88	71.58
Variance 0		0.12	0.00	-4.57			0.61	-1.26
Variance 1		0.55	-0.00	-2.48			0.34	-0.85
Variance 2		0.89	0.01	0.02			0.11	-1.57

**Notes**

Sampled at 1020. 78F cloudy.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-26 14:43:52

**Project Information:**

Operator Name Chris Parker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model Hach 2100 Q

**Pump Information:**

Pump Model/Type Peripump  
Tubing Type Poly  
Tubing Diameter .17 in  
Tubing Length 31 ft

Pump placement from TOC 29 ft

**Well Information:**

Well ID GWC-32  
Well diameter 2 in  
Well Total Depth 31.05 ft  
Screen Length 10 ft  
Depth to Water 25.21 ft

**Pumping Information:**

Final Pumping Rate 250 mL/min  
Total System Volume 0.2283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 58 in  
Total Volume Pumped 8 L

**Low-Flow Sampling Stabilization Summary**

Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	14:21:38	18.90	5.94	113.02	1.73	27.00	6.70	183.68
Last 5	14:26:38	18.99	5.93	106.76	1.96	27.60	6.81	186.99
Last 5	14:31:38	18.92	5.92	113.03	2.11	28.30	6.49	190.14
Last 5	14:36:38	18.97	5.91	116.87	2.98	29.10	5.91	191.55
Last 5	14:41:38	19.76	5.87	119.84	3.56	29.90	6.83	195.85
Variance 0		-0.06	-0.01	6.27			-0.32	3.15
Variance 1		0.05	-0.01	3.83			-0.58	1.41
Variance 2		0.79	-0.04	2.98			0.92	4.31

**Notes**

Well purged dry.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-27 10:06:54

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peri. Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 35 ft  
Pump placement from TOC 28 ft

**Well Information:**

Well ID GWC-32  
Well diameter 2 in  
Well Total Depth 31.05 ft  
Screen Length 10 ft  
Depth to Water 25.88 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.2462198 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5 in  
Total Volume Pumped 1.25 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	09:50:08	21.64	6.14	133.11	2.50	26.10	3.73	86.78
Last 5	09:55:07	20.84	6.14	126.09	1.26	26.20	2.55	77.73
Last 5	10:00:07	20.48	6.12	122.14	0.56	26.20	2.48	74.37
Last 5	10:05:08	20.35	6.11	121.59	0.49	26.30	2.65	72.27
Last 5								
Variance 0		-0.80	-0.00	-7.03			-1.19	-9.05
Variance 1		-0.36	-0.02	-3.95			-0.06	-3.36
Variance 2		-0.13	-0.01	-0.55			0.16	-2.11

**Notes**

Collected at 1005. 81F cloudy.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-26 13:43:12

**Project Information:**

Operator Name: Chris Parker  
Company Name: ACC  
Project Name: CCR - Plant Wansley - Landfill  
Site Name: Plant Wansley  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 588863  
Turbidity Make/Model: Hach 2100 Q

**Pump Information:**

Pump Model/Type: Peripump  
Tubing Type: Poly  
Tubing Diameter: .17 in  
Tubing Length: 24 ft  
Pump placement from TOC: 19 ft

**Well Information:**

Well ID: GWC-33  
Well diameter: 2 in  
Well Total Depth: 23.99 ft  
Screen Length: 10 ft  
Depth to Water: 13.63 ft

**Pumping Information:**

Final Pumping Rate: 80 mL/min  
Total System Volume: 0.1971222 L  
Calculated Sample Rate: 300 sec  
Stabilization Drawdown: 90 in  
Total Volume Pumped: 19.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:20:39	19.19	6.24	176.95	1.85	20.60	4.76	172.52
Last 5	13:25:39	19.27	6.24	165.69	1.14	20.80	5.78	174.68
Last 5	13:30:39	20.14	6.31	191.82	1.88	20.90	5.51	173.40
Last 5	13:35:40	20.16	6.30	191.62	2.10	21.00	5.25	173.19
Last 5	13:40:44	21.05	6.30	192.78	1.39	21.10	5.09	172.93
Variance 0		0.87	0.07	26.13			-0.27	-1.29
Variance 1		0.02	-0.01	-0.20			-0.26	-0.21
Variance 2		0.89	-0.00	1.16			-0.16	-0.26

**Notes**

Sampled at 13:45. Cloudy 80s

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-06-26 11:48:21

**Project Information:**

Operator Name Chris Parker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model Hach 2100 Q

**Pump Information:**

Pump Model/Type Peripump  
Tubing Type Poly  
Tubing Diameter .17 in  
Tubing Length 51 ft  
Pump placement from TOC 46 ft

**Well Information:**

Well ID GWC-34  
Well diameter 2 in  
Well Total Depth 51.25 ft  
Screen Length 10 ft  
Depth to Water 4.75 ft

**Pumping Information:**

Final Pumping Rate 240 mL/min  
Total System Volume 0.3176346 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 9.6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:26:16	19.16	5.79	59.20	5.97	5.00	3.72	+/- 0
Last 5	11:31:16	19.16	5.80	58.36	5.24	5.00	3.72	112.50
Last 5	11:36:16	19.07	5.80	58.21	5.49	5.00	3.77	113.91
Last 5	11:41:16	19.10	5.80	57.64	4.89	5.00	3.76	115.51
Last 5	11:46:16	18.98	5.80	57.88	4.01	5.00	3.84	117.70
Variance 0		-0.08	-0.00	-0.15			0.05	119.02
Variance 1		0.03	-0.00	-0.58			-0.00	1.61
Variance 2		-0.12	0.00	0.24			-0.00	2.18

**Notes**

Sampled at 11:50. Cloudy 80s. DUP 3 here

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-06-26 10:41:46

Project Information:

Operator Name Chris Parker  
Company Name ACC  
Project Name CCR - Plant Wansley - Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peripump  
Tubing Type Poly  
Tubing Diameter .17 in  
Tubing Length 41 ft  
Pump placement from TOC 36 ft

Well Information:

Well ID GWC-35  
Well diameter 2 in  
Well Total Depth 40.78 ft  
Screen Length 10 ft  
Depth to Water 8.37 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.2730004 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 8.8 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:17:50	19.19	5.55	56.82	2.35	8.40	2.64	+/- 0
Last 5	10:22:50	18.83	5.54	56.70	2.48	8.40	2.68	93.06
Last 5	10:27:50	18.78	5.55	55.37	1.79	8.40	2.69	92.29
Last 5	10:32:50	18.76	5.54	55.08	1.45	8.40	2.71	94.07
Last 5	10:37:50	18.88	5.55	55.13	1.75	8.40	2.70	97.14
Variance 0		-0.05	0.01	-1.33			0.02	100.14
Variance 1		-0.02	-0.01	-0.29			0.01	1.79
Variance 2		0.12	0.00	0.05			-0.01	3.07

Notes

Sampled at 10:40. Cloudy 80s.

Grab Samples

## ANALYTICAL REPORT

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

Laboratory Job ID: 180-95726-1  
Laboratory Sample Delivery Group: Landfill  
Client Project/Site: CCR - Plant Wansley

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

Attn: Joju Abraham



Authorized for release by:  
10/28/2019 10:57:48 AM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

Job ID: 180-95726-1  
SDG: Landfill

**Job ID: 180-95726-1**

**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

### Job Narrative 180-95726-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/14/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0° C, 2.9° C and 3.1° C.

#### Receipt Exceptions

The following samples were submitted for analysis; however, they were not listed on the Chain-of-Custody (COC): FB-3-9-12-19 (180-95726-27), EB-3-9-12-19 (180-95726-28) and DUPLICATE 3 (180-95726-29). Samples were analyzed for same parameters as those listed on the COC.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GWC-33 (180-95726-18). The container labels list a sample collection time of 11:08, while the COC lists 11:13. The time on the COC was used.

#### GC Semi VOA

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

#### Metals

Method 6020: The continuing calibration verification (CCV) associated with batch 180-294736 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-292403 and analytical batch 180-294736 were outside control limits for beryllium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or 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

Job ID: 180-95726-1  
SDG: Landfill

## 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.

### 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.
F1	MS and/or MSD Recovery is outside acceptance 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.
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

Job ID: 180-95726-1  
 SDG: Landfill

## 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	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
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	01-31-20
Wisconsin	State	998027800	08-31-20



# Sample Summary

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

Job ID: 180-95726-1  
SDG: Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95726-1	GWA-3	Ground Water	09/11/19 10:15	09/14/19 09:45	
180-95726-2	GWC-12	Ground Water	09/11/19 10:21	09/14/19 09:45	
180-95726-3	GWC-16	Ground Water	09/11/19 11:36	09/14/19 09:45	
180-95726-4	GWC-17	Ground Water	09/11/19 13:08	09/14/19 09:45	
180-95726-5	GWC-18	Ground Water	09/11/19 14:11	09/14/19 09:45	
180-95726-6	GWC-20	Ground Water	09/11/19 13:38	09/14/19 09:45	
180-95726-7	GWC-21	Ground Water	09/11/19 11:15	09/14/19 09:45	
180-95726-8	GWC-24	Ground Water	09/11/19 13:40	09/14/19 09:45	
180-95726-9	GWC-25	Ground Water	09/11/19 15:40	09/14/19 09:45	
180-95726-10	GWC-34	Ground Water	09/11/19 15:24	09/14/19 09:45	
180-95726-11	DUP-2	Water	09/11/19 00:00	09/14/19 09:45	
180-95726-12	EB-1-9-11-19	Water	09/11/19 10:15	09/14/19 09:45	
180-95726-13	FB-2-9-11-19	Water	09/11/19 11:30	09/14/19 09:45	
180-95726-14	GWC-5	Ground Water	09/12/19 12:19	09/14/19 09:45	
180-95726-15	GWC-6	Ground Water	09/12/19 13:50	09/14/19 09:45	
180-95726-16	GWC-19	Ground Water	09/12/19 10:29	09/14/19 09:45	
180-95726-17	GWC-32	Ground Water	09/12/19 10:20	09/14/19 09:45	
180-95726-18	GWC-33	Ground Water	09/12/19 11:13	09/14/19 09:45	
180-95726-19	GWC-35	Ground Water	09/12/19 12:20	09/14/19 09:45	
180-95726-20	GWC-23	Ground Water	09/12/19 12:25	09/14/19 09:45	
180-95726-21	GWC-26	Ground Water	09/12/19 13:35	09/14/19 09:45	
180-95726-22	GWC-27	Ground Water	09/12/19 14:35	09/14/19 09:45	
180-95726-23	GWC-31	Ground Water	09/11/19 10:00	09/14/19 09:45	
180-95726-24	EB-2-9-12-19	Water	09/12/19 09:40	09/14/19 09:45	
180-95726-25	GWC-13	Ground Water	09/12/19 13:41	09/14/19 09:45	
180-95726-26	GWC-14	Ground Water	09/12/19 14:40	09/14/19 09:45	
180-95726-27	FB-3-9-12-19	Water	09/12/19 11:25	09/14/19 09:45	
180-95726-28	EB-3-9-12-19	Water	09/12/19 10:45	09/14/19 09:45	
180-95726-29	DUPLICATE 3	Water	09/12/19 00:00	09/14/19 09:45	

# Method Summary

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

Job ID: 180-95726-1  
SDG: Landfill

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

#### Protocol References:

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWA-3**  
**Date Collected: 09/11/19 10:15**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95726-1**  
**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			292202	09/22/19 12:14	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293054	09/28/19 00:37	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293128	09/28/19 16:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 17:00	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291487	09/16/19 13:13	PM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-12**  
**Date Collected: 09/11/19 10:21**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95726-2**  
**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			292202	09/22/19 13:00	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293054	09/28/19 00:40	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293128	09/28/19 17:06	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 17:01	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291487	09/16/19 13:13	PM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-16**  
**Date Collected: 09/11/19 11:36**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95726-3**  
**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			292202	09/22/19 13:15	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293054	09/28/19 00:44	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293128	09/28/19 17:10	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

## Client Sample ID: GWC-16

Date Collected: 09/11/19 11:36

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-3

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	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 17:03	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291487	09/16/19 13:13	PM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-17

Date Collected: 09/11/19 13:08

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-4

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			292202	09/22/19 13:31	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293054	09/28/19 00:47	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293128	09/28/19 17:13	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 17:04	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291487	09/16/19 13:13	PM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-18

Date Collected: 09/11/19 14:11

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-5

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			292202	09/22/19 13:46	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293054	09/28/19 00:50	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293128	09/28/19 17:17	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 15:55	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-20**

**Lab Sample ID: 180-95726-6**

**Date Collected: 09/11/19 13:38**

**Matrix: Ground Water**

**Date Received: 09/14/19 09:45**

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			292202	09/22/19 14:01	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293054	09/28/19 00:54	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292308	09/23/19 12:59	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293128	09/28/19 17:20	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 15:58	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-21**

**Lab Sample ID: 180-95726-7**

**Date Collected: 09/11/19 11:15**

**Matrix: Ground Water**

**Date Received: 09/14/19 09:45**

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			292202	09/22/19 14:47	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:14	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 15:59	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-24**

**Lab Sample ID: 180-95726-8**

**Date Collected: 09/11/19 13:40**

**Matrix: Ground Water**

**Date Received: 09/14/19 09:45**

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			292202	09/22/19 15:03	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:27	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:01	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

## Client Sample ID: GWC-25

Date Collected: 09/11/19 15:40

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-9

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			292202	09/22/19 15:18	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:31	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:05	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-34

Date Collected: 09/11/19 15:24

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-10

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			292202	09/22/19 15:33	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:34	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:07	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: DUP-2

Date Collected: 09/11/19 00:00

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-11

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			292202	09/22/19 15:49	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:37	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:08	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: EB-1-9-11-19**

**Lab Sample ID: 180-95726-12**

**Date Collected: 09/11/19 10:15**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

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			292202	09/22/19 16:34	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:48	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:09	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-2-9-11-19**

**Lab Sample ID: 180-95726-13**

**Date Collected: 09/11/19 11:30**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

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			292202	09/22/19 16:50	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:10	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-95726-14**

**Date Collected: 09/12/19 12:19**

**Matrix: Ground Water**

**Date Received: 09/14/19 09:45**

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			292202	09/22/19 17:05	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:54	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:12	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

## Client Sample ID: GWC-6

Date Collected: 09/12/19 13:50

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-15

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	300.0		1			292202	09/22/19 17:51	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 20:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:13	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-19

Date Collected: 09/12/19 10:29

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-16

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			292202	09/22/19 18:06	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:14	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-32

Date Collected: 09/12/19 10:20

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-17

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			292202	09/22/19 18:22	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:04	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294834	10/13/19 19:52	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:15	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

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# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

## Client Sample ID: GWC-33

Date Collected: 09/12/19 11:13

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-18

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			292202	09/22/19 18:37	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:08	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:16	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-35

Date Collected: 09/12/19 12:20

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-19

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			292202	09/22/19 18:52	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:11	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:21	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-23

Date Collected: 09/12/19 12:25

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-20

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			292202	09/22/19 19:08	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:23	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

## Client Sample ID: GWC-26

Date Collected: 09/12/19 13:35

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-21

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			292203	09/22/19 13:38	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:24	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-27

Date Collected: 09/12/19 14:35

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-22

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			292203	09/22/19 14:23	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:28	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294834	10/13/19 19:55	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:25	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: GWC-31

Date Collected: 09/11/19 10:00

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-23

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	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:26	RJR	TAL PIT
Instrument ID: HGY										



# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: EB-2-9-12-19**

**Lab Sample ID: 180-95726-24**

**Date Collected: 09/12/19 09:40**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

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			292203	09/22/19 14:38	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293394	10/01/19 17:57	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:27	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-13**

**Lab Sample ID: 180-95726-25**

**Date Collected: 09/12/19 13:41**

**Matrix: Ground Water**

**Date Received: 09/14/19 09:45**

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			292203	09/22/19 14:53	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:38	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 13:28	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-14**

**Lab Sample ID: 180-95726-26**

**Date Collected: 09/12/19 14:40**

**Matrix: Ground Water**

**Date Received: 09/14/19 09:45**

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			292203	09/22/19 15:08	CMR	TAL PIT
Instrument ID: CHICS2000										
Total/NA	Analysis	300.0		5			293618	10/03/19 16:45	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294736	10/12/19 21:42	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292403	09/24/19 11:51	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294834	10/13/19 15:34	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 13:31	RJR	TAL PIT
Instrument ID: HGZ										

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# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-14**

**Lab Sample ID: 180-95726-26**

**Date Collected: 09/12/19 14:40**

**Matrix: Ground Water**

**Date Received: 09/14/19 09:45**

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	291929	09/19/19 12:09	AVS	TAL PIT

**Client Sample ID: FB-3-9-12-19**

**Lab Sample ID: 180-95726-27**

**Date Collected: 09/12/19 11:25**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

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 Instrument ID: CHICS2000		1			292203	09/22/19 16:08	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 16:55	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:32	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291929	09/19/19 12:09	AVS	TAL PIT

**Client Sample ID: EB-3-9-12-19**

**Lab Sample ID: 180-95726-28**

**Date Collected: 09/12/19 10:45**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

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 Instrument ID: CHICS2000		1			292203	09/22/19 16:23	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 16:58	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:33	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291934	09/19/19 12:24	AVS	TAL PIT

**Client Sample ID: DUPLICATE 3**

**Lab Sample ID: 180-95726-29**

**Date Collected: 09/12/19 00:00**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

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 Instrument ID: CHICS2000		1			292203	09/22/19 16:37	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 17:02	WTR	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: DUPLICATE 3**

**Lab Sample ID: 180-95726-29**

**Date Collected: 09/12/19 00:00**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 13:34	RJR	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291934	09/19/19 12:24	AVS	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

Batch Type: Analysis

AVS = Abbey Smith

CMR = Carl Reagle

PM = Paloma Hoelzle

RJR = Ron Rosenbaum

RSK = Robert Kurtz

WTR = Bill Reinheimer

# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWA-3**

**Lab Sample ID: 180-95726-1**

Date Collected: 09/11/19 10:15

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		1.0	0.71	mg/L			09/22/19 12:14	1
Fluoride	0.033	J	0.10	0.026	mg/L			09/22/19 12:14	1
Sulfate	43		1.0	0.38	mg/L			09/22/19 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/23/19 12:59	09/28/19 00:37	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:37	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/23/19 12:59	09/28/19 00:37	1
Calcium	11		0.50	0.13	mg/L		09/23/19 12:59	09/28/19 00:37	1
Barium	0.094		0.010	0.0016	mg/L		09/23/19 12:59	09/28/19 16:56	1
Beryllium	0.00030	J	0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:37	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:37	1
Cobalt	0.00017	J	0.00050	0.000075	mg/L		09/23/19 12:59	09/28/19 00:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/19 12:59	09/28/19 00:37	1
Copper	0.0015	J	0.0020	0.00063	mg/L		09/23/19 12:59	09/28/19 00:37	1
Nickel	0.0022	B	0.0010	0.00034	mg/L		09/23/19 12:59	09/28/19 00:37	1
Lead	0.00017	J	0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:37	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/23/19 12:59	09/28/19 00:37	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/23/19 12:59	09/28/19 00:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/23/19 12:59	09/28/19 00:37	1
Vanadium	0.0014		0.0010	0.00099	mg/L		09/23/19 12:59	09/28/19 00:37	1
Zinc	0.020		0.0050	0.0032	mg/L		09/23/19 12:59	09/28/19 00:37	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		10/01/19 17:58	10/02/19 17:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/16/19 13:13	1

**Client Sample ID: GWC-12**

**Lab Sample ID: 180-95726-2**

Date Collected: 09/11/19 10:21

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		1.0	0.71	mg/L			09/22/19 13:00	1
Fluoride	0.17		0.10	0.026	mg/L			09/22/19 13:00	1
Sulfate	26		1.0	0.38	mg/L			09/22/19 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.042	J	0.080	0.039	mg/L		09/23/19 12:59	09/28/19 00:40	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:40	1
Arsenic	0.00036	J	0.0010	0.00032	mg/L		09/23/19 12:59	09/28/19 00:40	1
Calcium	42		0.50	0.13	mg/L		09/23/19 12:59	09/28/19 00:40	1
Barium	0.022		0.010	0.0016	mg/L		09/23/19 12:59	09/28/19 17:06	1
Beryllium	0.00024	J	0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:40	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:40	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-12**

**Lab Sample ID: 180-95726-2**

Date Collected: 09/11/19 10:21

Matrix: Ground Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.00017	J	0.00050	0.000075	mg/L		09/23/19 12:59	09/28/19 00:40	1
Chromium	0.0023		0.0020	0.0015	mg/L		09/23/19 12:59	09/28/19 00:40	1
Copper	0.00096	J	0.0020	0.00063	mg/L		09/23/19 12:59	09/28/19 00:40	1
Nickel	0.00088	J B	0.0010	0.00034	mg/L		09/23/19 12:59	09/28/19 00:40	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:40	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/23/19 12:59	09/28/19 00:40	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/23/19 12:59	09/28/19 00:40	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/23/19 12:59	09/28/19 00:40	1
Vanadium	0.0011		0.0010	0.00099	mg/L		09/23/19 12:59	09/28/19 00:40	1
Zinc	0.0056		0.0050	0.0032	mg/L		09/23/19 12:59	09/28/19 00:40	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		10/01/19 17:58	10/02/19 17:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			09/16/19 13:13	1

**Client Sample ID: GWC-16**

**Lab Sample ID: 180-95726-3**

Date Collected: 09/11/19 11:36

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			09/22/19 13:15	1
Fluoride	0.038	J	0.10	0.026	mg/L			09/22/19 13:15	1
Sulfate	0.60	J	1.0	0.38	mg/L			09/22/19 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/23/19 12:59	09/28/19 00:44	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:44	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/23/19 12:59	09/28/19 00:44	1
Calcium	7.1		0.50	0.13	mg/L		09/23/19 12:59	09/28/19 00:44	1
Barium	0.020		0.010	0.0016	mg/L		09/23/19 12:59	09/28/19 17:10	1
Beryllium	0.00024	J	0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:44	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:44	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/23/19 12:59	09/28/19 00:44	1
Chromium	0.0043		0.0020	0.0015	mg/L		09/23/19 12:59	09/28/19 00:44	1
Copper	0.00065	J	0.0020	0.00063	mg/L		09/23/19 12:59	09/28/19 00:44	1
Nickel	0.00077	J B	0.0010	0.00034	mg/L		09/23/19 12:59	09/28/19 00:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:44	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/23/19 12:59	09/28/19 00:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/23/19 12:59	09/28/19 00:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/23/19 12:59	09/28/19 00:44	1
Vanadium	0.0048		0.0010	0.00099	mg/L		09/23/19 12:59	09/28/19 00:44	1
Zinc	0.0062		0.0050	0.0032	mg/L		09/23/19 12:59	09/28/19 00:44	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

## Client Sample ID: GWC-16

Date Collected: 09/11/19 11:36

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-3

Matrix: Ground Water

### 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		10/01/19 17:58	10/02/19 17:03	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	85		10	10	mg/L			09/16/19 13:13	1

## Client Sample ID: GWC-17

Date Collected: 09/11/19 13:08

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-4

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		1.0	0.71	mg/L			09/22/19 13:31	1
Fluoride	0.043	J	0.10	0.026	mg/L			09/22/19 13:31	1
Sulfate	0.99	J	1.0	0.38	mg/L			09/22/19 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/23/19 12:59	09/28/19 00:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:47	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/23/19 12:59	09/28/19 00:47	1
Calcium	8.0		0.50	0.13	mg/L		09/23/19 12:59	09/28/19 00:47	1
Barium	0.018		0.010	0.0016	mg/L		09/23/19 12:59	09/28/19 17:13	1
Beryllium	0.00018	J	0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:47	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:47	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/23/19 12:59	09/28/19 00:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/19 12:59	09/28/19 00:47	1
Copper	0.00066	J	0.0020	0.00063	mg/L		09/23/19 12:59	09/28/19 00:47	1
Nickel	0.00092	J B	0.0010	0.00034	mg/L		09/23/19 12:59	09/28/19 00:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:47	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/23/19 12:59	09/28/19 00:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/23/19 12:59	09/28/19 00:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/23/19 12:59	09/28/19 00:47	1
Vanadium	0.0023		0.0010	0.00099	mg/L		09/23/19 12:59	09/28/19 00:47	1
Zinc	0.012		0.0050	0.0032	mg/L		09/23/19 12:59	09/28/19 00:47	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		10/01/19 17:58	10/02/19 17:04	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92		10	10	mg/L			09/16/19 13:13	1

## Client Sample ID: GWC-18

Date Collected: 09/11/19 14:11

Date Received: 09/14/19 09:45

## Lab Sample ID: 180-95726-5

Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			09/22/19 13:46	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-18**

**Lab Sample ID: 180-95726-5**

Date Collected: 09/11/19 14:11

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.036	J	0.10	0.026	mg/L			09/22/19 13:46	1
Sulfate	0.70	J	1.0	0.38	mg/L			09/22/19 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/23/19 12:59	09/28/19 00:50	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:50	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/23/19 12:59	09/28/19 00:50	1
Calcium	7.0		0.50	0.13	mg/L		09/23/19 12:59	09/28/19 00:50	1
Barium	0.040		0.010	0.0016	mg/L		09/23/19 12:59	09/28/19 17:17	1
Beryllium	0.00019	J	0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:50	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:50	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/23/19 12:59	09/28/19 00:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/19 12:59	09/28/19 00:50	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/23/19 12:59	09/28/19 00:50	1
Nickel	0.00066	J B	0.0010	0.00034	mg/L		09/23/19 12:59	09/28/19 00:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:50	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/23/19 12:59	09/28/19 00:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/23/19 12:59	09/28/19 00:50	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/23/19 12:59	09/28/19 00:50	1
Vanadium	0.0017		0.0010	0.00099	mg/L		09/23/19 12:59	09/28/19 00:50	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/23/19 12:59	09/28/19 00:50	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		10/01/19 17:57	10/02/19 15:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-20**

**Lab Sample ID: 180-95726-6**

Date Collected: 09/11/19 13:38

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			09/22/19 14:01	1
Fluoride	0.039	J	0.10	0.026	mg/L			09/22/19 14:01	1
Sulfate	1.1		1.0	0.38	mg/L			09/22/19 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/23/19 12:59	09/28/19 00:54	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:54	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/23/19 12:59	09/28/19 00:54	1
Calcium	8.4		0.50	0.13	mg/L		09/23/19 12:59	09/28/19 00:54	1
Barium	0.035		0.010	0.0016	mg/L		09/23/19 12:59	09/28/19 17:20	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/28/19 00:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:54	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/23/19 12:59	09/28/19 00:54	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-20**

**Lab Sample ID: 180-95726-6**

Date Collected: 09/11/19 13:38

Matrix: Ground Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0027		0.0020	0.0015	mg/L		09/23/19 12:59	09/28/19 00:54	1
Copper	0.00085	J	0.0020	0.00063	mg/L		09/23/19 12:59	09/28/19 00:54	1
Nickel	0.0010	B	0.0010	0.00034	mg/L		09/23/19 12:59	09/28/19 00:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/28/19 00:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/23/19 12:59	09/28/19 00:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/23/19 12:59	09/28/19 00:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/23/19 12:59	09/28/19 00:54	1
Vanadium	0.0027		0.0010	0.00099	mg/L		09/23/19 12:59	09/28/19 00:54	1
Zinc	0.0061		0.0050	0.0032	mg/L		09/23/19 12:59	09/28/19 00:54	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		10/01/19 17:57	10/02/19 15:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	74		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-21**

**Lab Sample ID: 180-95726-7**

Date Collected: 09/11/19 11:15

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			09/22/19 14:47	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 14:47	1
Sulfate	0.42	J	1.0	0.38	mg/L			09/22/19 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:14	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:14	1
Arsenic	0.00047	J	0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:14	1
Calcium	4.1		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:14	1
Barium	0.028	B	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:14	1
Beryllium	0.00020	J F1 ^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:14	1
Cadmium	0.00018	J	0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:14	1
Cobalt	0.0017		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:14	1
Chromium	0.0022		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:14	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:14	1
Nickel	0.00066	J	0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:14	1
Lead	0.00017	J	0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:14	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:14	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:14	1
Thallium	0.00026	J	0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:14	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:14	1
Zinc	0.0068	B	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 20:14	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		10/01/19 17:57	10/02/19 15:59	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-21**  
Date Collected: 09/11/19 11:15  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-7**  
Matrix: Ground Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-24**  
Date Collected: 09/11/19 13:40  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-8**  
Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			09/22/19 15:03	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 15:03	1
Sulfate	0.59	J	1.0	0.38	mg/L			09/22/19 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.053	J ^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:27	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:27	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:27	1
Calcium	0.90		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:27	1
Barium	0.020	B	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:27	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:27	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:27	1
Cobalt	0.0013		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:27	1
Chromium	0.0023		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:27	1
Copper	0.0013	J B	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:27	1
Nickel	0.0018		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:27	1
Lead	0.00015	J	0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:27	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:27	1
Thallium	0.00023	J	0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:27	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:27	1
Zinc	0.0081	B	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 20:27	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		10/01/19 17:57	10/02/19 16:01	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-25**  
Date Collected: 09/11/19 15:40  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-9**  
Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		1.0	0.71	mg/L			09/22/19 15:18	1
Fluoride	0.039	J	0.10	0.026	mg/L			09/22/19 15:18	1
Sulfate	5.7		1.0	0.38	mg/L			09/22/19 15:18	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-25**

**Lab Sample ID: 180-95726-9**

Date Collected: 09/11/19 15:40

Matrix: Ground Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:31	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Arsenic</b>	<b>0.00041</b>	<b>J</b>	0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Calcium</b>	<b>6.0</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Barium</b>	<b>0.056</b>	<b>B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Beryllium</b>	<b>0.00019</b>	<b>J ^</b>	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Cadmium</b>	<b>0.00020</b>	<b>J</b>	0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Cobalt</b>	<b>0.013</b>		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Chromium</b>	<b>0.0034</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Copper</b>	<b>0.0072</b>	<b>B</b>	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Nickel</b>	<b>0.024</b>		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Lead</b>	<b>0.00024</b>	<b>J</b>	0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:31	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Thallium</b>	<b>0.00028</b>	<b>J</b>	0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Vanadium</b>	<b>0.0013</b>		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:31	1
<b>Zinc</b>	<b>0.037</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 20:31	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		10/01/19 17:57	10/02/19 16:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>53</b>		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-34**

**Lab Sample ID: 180-95726-10**

Date Collected: 09/11/19 15:24

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.1</b>		1.0	0.71	mg/L			09/22/19 15:33	1
<b>Fluoride</b>	<b>0.15</b>		0.10	0.026	mg/L			09/22/19 15:33	1
<b>Sulfate</b>	<b>1.6</b>		1.0	0.38	mg/L			09/22/19 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:34	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:34	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:34	1
<b>Calcium</b>	<b>3.3</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:34	1
<b>Barium</b>	<b>0.014</b>	<b>B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:34	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:34	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:34	1
<b>Cobalt</b>	<b>0.00011</b>	<b>J</b>	0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:34	1
<b>Chromium</b>	<b>0.0034</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:34	1
<b>Copper</b>	<b>0.0013</b>	<b>J B</b>	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:34	1
<b>Nickel</b>	<b>0.0014</b>		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:34	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:34	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-34**

**Lab Sample ID: 180-95726-10**

Date Collected: 09/11/19 15:24

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - 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		09/24/19 11:51	10/12/19 20:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:34	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:34	1
<b>Zinc</b>	<b>0.0068</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 20:34	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		10/01/19 17:57	10/02/19 16:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>20</b>		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: DUP-2**

**Lab Sample ID: 180-95726-11**

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>4.2</b>		1.0	0.71	mg/L			09/22/19 15:49	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 15:49	1
<b>Sulfate</b>	<b>0.53</b>	<b>J</b>	1.0	0.38	mg/L			09/22/19 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:37	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:37	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:37	1
<b>Calcium</b>	<b>0.99</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:37	1
<b>Barium</b>	<b>0.020</b>	<b>B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:37	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:37	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:37	1
<b>Cobalt</b>	<b>0.0012</b>		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:37	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:37	1
<b>Copper</b>	<b>0.0013</b>	<b>J B</b>	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:37	1
<b>Nickel</b>	<b>0.0019</b>		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:37	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:37	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:37	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:37	1
<b>Zinc</b>	<b>0.0075</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 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		10/01/19 17:57	10/02/19 16:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>&lt;10</b>		10	10	mg/L			09/16/19 11:39	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: EB-1-9-11-19**

**Lab Sample ID: 180-95726-12**

Date Collected: 09/11/19 10:15

Matrix: Water

Date Received: 09/14/19 09:45

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 16:34	1
<b>Fluoride</b>	<b>0.042</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 16:34	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:48	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:48	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:48	1
Calcium	<0.13		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:48	1
<b>Barium</b>	<b>0.0030</b>	<b>J B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:48	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:48	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:48	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:48	1
<b>Chromium</b>	<b>0.0025</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:48	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:48	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:48	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:48	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:48	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:48	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:48	1
<b>Zinc</b>	<b>0.0047</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 20:48	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		10/01/19 17:57	10/02/19 16:09	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: FB-2-9-11-19**

**Lab Sample ID: 180-95726-13**

Date Collected: 09/11/19 11:30

Matrix: Water

Date Received: 09/14/19 09:45

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 16:50	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 16:50	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:51	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:51	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:51	1
Calcium	<0.13		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:51	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:51	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:51	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:51	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: FB-2-9-11-19**

**Lab Sample ID: 180-95726-13**

Date Collected: 09/11/19 11:30

Matrix: Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:51	1
<b>Chromium</b>	<b>0.0024</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:51	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:51	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:51	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:51	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:51	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 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		10/01/19 17:57	10/02/19 16:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-95726-14**

Date Collected: 09/12/19 12:19

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>13</b>		1.0	0.71	mg/L			09/22/19 17:05	1
<b>Fluoride</b>	<b>0.078</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 17:05	1
<b>Sulfate</b>	<b>34</b>		1.0	0.38	mg/L			09/22/19 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	<b>^</b>	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:54	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:54	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:54	1
<b>Calcium</b>	<b>31</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:54	1
<b>Barium</b>	<b>0.030</b>	<b>B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:54	1
Beryllium	<0.00018	<b>^</b>	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:54	1
<b>Cobalt</b>	<b>0.0062</b>		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:54	1
<b>Chromium</b>	<b>0.0033</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:54	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:54	1
<b>Nickel</b>	<b>0.0085</b>		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:54	1
<b>Vanadium</b>	<b>0.0031</b>		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:54	1
<b>Zinc</b>	<b>0.0067</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 20:54	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-5**  
Date Collected: 09/12/19 12:19  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-14**  
Matrix: Ground Water

**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		10/01/19 17:57	10/02/19 16:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: GWC-6**  
Date Collected: 09/12/19 13:50  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-15**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.71	mg/L			09/22/19 17:51	1
Fluoride	0.076	J	0.10	0.026	mg/L			09/22/19 17:51	1
Sulfate	14		1.0	0.38	mg/L			09/22/19 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:58	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:58	1
Calcium	16		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:58	1
Barium	0.074	B	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:58	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:58	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:58	1
Cobalt	0.019		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:58	1
Chromium	0.0049		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 20:58	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:58	1
Nickel	0.0099		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:58	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:58	1
Thallium	0.00017	J	0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:58	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:58	1
Zinc	0.049	B	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 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		10/01/19 17:57	10/02/19 16:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: GWC-19**  
Date Collected: 09/12/19 10:29  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-16**  
Matrix: Ground Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			09/22/19 18:06	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-95726-16**

Date Collected: 09/12/19 10:29

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.031	J	0.10	0.026	mg/L			09/22/19 18:06	1
Sulfate	0.39	J	1.0	0.38	mg/L			09/22/19 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:01	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:01	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:01	1
Calcium	5.4		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:01	1
Barium	0.058	B	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:01	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:01	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:01	1
Cobalt	0.00035	J	0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:01	1
Chromium	0.0024		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:01	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:01	1
Nickel	0.00044	J	0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:01	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:01	1
Vanadium	0.0015		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:01	1
Zinc	0.0086	B	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 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		10/01/19 17:57	10/02/19 16:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	87		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: GWC-32**

**Lab Sample ID: 180-95726-17**

Date Collected: 09/12/19 10:20

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.99	J	1.0	0.71	mg/L			09/22/19 18:22	1
Fluoride	2.8		0.10	0.026	mg/L			09/22/19 18:22	1
Sulfate	9.7		1.0	0.38	mg/L			09/22/19 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:04	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:04	1
Arsenic	0.00034	J	0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:04	1
Calcium	10		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:04	1
Barium	0.0020	J B	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:04	1
Beryllium	0.0019		0.0010	0.00018	mg/L		09/24/19 11:51	10/13/19 19:52	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:04	1
Cobalt	0.00087		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:04	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-32**

**Lab Sample ID: 180-95726-17**

Date Collected: 09/12/19 10:20

Matrix: Ground Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0024</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:04	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:04	1
<b>Nickel</b>	<b>0.0013</b>		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:04	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:04	1
<b>Vanadium</b>	<b>0.0012</b>		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:04	1
<b>Zinc</b>	<b>0.098</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 21:04	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		10/01/19 17:57	10/02/19 16:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: GWC-33**

**Lab Sample ID: 180-95726-18**

Date Collected: 09/12/19 11:13

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.1</b>		1.0	0.71	mg/L			09/22/19 18:37	1
<b>Fluoride</b>	<b>2.4</b>		0.10	0.026	mg/L			09/22/19 18:37	1
<b>Sulfate</b>	<b>12</b>		1.0	0.38	mg/L			09/22/19 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	<b>^</b>	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:08	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:08	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Calcium</b>	<b>14</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Barium</b>	<b>0.0090</b>	<b>J B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Beryllium</b>	<b>0.00044</b>	<b>J ^</b>	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:08	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Cobalt</b>	<b>0.00083</b>		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Chromium</b>	<b>0.0032</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:08	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Nickel</b>	<b>0.00078</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Lead</b>	<b>0.00031</b>	<b>J</b>	0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:08	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:08	1
<b>Zinc</b>	<b>0.010</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 21:08	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		10/01/19 17:57	10/02/19 16:16	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-33**  
Date Collected: 09/12/19 11:13  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-18**  
Matrix: Ground Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: GWC-35**  
Date Collected: 09/12/19 12:20  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-19**  
Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.71	mg/L			09/22/19 18:52	1
Fluoride	0.038	J	0.10	0.026	mg/L			09/22/19 18:52	1
Sulfate	2.3		1.0	0.38	mg/L			09/22/19 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:11	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:11	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:11	1
Calcium	1.9		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:11	1
Barium	0.020	B	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:11	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:11	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:11	1
Cobalt	0.00027	J	0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:11	1
Chromium	0.0026		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:11	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:11	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:11	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:11	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:11	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:11	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:11	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:11	1
Zinc	0.0045	J B	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 21:11	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		10/01/19 17:57	10/02/19 16:21	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	51		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: GWC-23**  
Date Collected: 09/12/19 12:25  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95726-20**  
Matrix: Ground Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			09/22/19 19:08	1
Fluoride	0.033	J	0.10	0.026	mg/L			09/22/19 19:08	1
Sulfate	0.54	J	1.0	0.38	mg/L			09/22/19 19:08	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-23**

**Lab Sample ID: 180-95726-20**

Date Collected: 09/12/19 12:25

Matrix: Ground Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:15	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:15	1
<b>Calcium</b>	<b>3.6</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:15	1
<b>Barium</b>	<b>0.0053</b>	<b>J B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:15	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:15	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:15	1
<b>Cobalt</b>	<b>0.000093</b>	<b>J</b>	0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:15	1
<b>Chromium</b>	<b>0.0024</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:15	1
<b>Copper</b>	<b>0.00068</b>	<b>J B</b>	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:15	1
<b>Nickel</b>	<b>0.00044</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:15	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:15	1
<b>Vanadium</b>	<b>0.0010</b>		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:15	1
<b>Zinc</b>	<b>0.0042</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 21:15	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		10/01/19 17:57	10/02/19 16:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>58</b>		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: GWC-26**

**Lab Sample ID: 180-95726-21**

Date Collected: 09/12/19 13:35

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.3</b>		1.0	0.71	mg/L			09/22/19 13:38	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 13:38	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:18	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:18	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:18	1
<b>Calcium</b>	<b>1.8</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:18	1
<b>Barium</b>	<b>0.039</b>	<b>B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:18	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:18	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:18	1
<b>Cobalt</b>	<b>0.00012</b>	<b>J</b>	0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:18	1
<b>Chromium</b>	<b>0.0033</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:18	1
<b>Copper</b>	<b>0.0010</b>	<b>J B</b>	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:18	1
<b>Nickel</b>	<b>0.00081</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:18	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:18	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-26**

**Lab Sample ID: 180-95726-21**

Date Collected: 09/12/19 13:35

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - 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		09/24/19 11:51	10/12/19 21:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:18	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:18	1
<b>Zinc</b>	<b>0.0059</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 21:18	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		10/01/19 17:57	10/02/19 16:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>61</b>		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: GWC-27**

**Lab Sample ID: 180-95726-22**

Date Collected: 09/12/19 14:35

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>0.88</b>	<b>J</b>	1.0	0.71	mg/L			09/22/19 14:23	1
<b>Fluoride</b>	<b>0.18</b>		0.10	0.026	mg/L			09/22/19 14:23	1
<b>Sulfate</b>	<b>0.82</b>	<b>J</b>	1.0	0.38	mg/L			09/22/19 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	<sup>^</sup>	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:28	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:28	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Calcium</b>	<b>1.2</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Barium</b>	<b>0.012</b>	<b>B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Beryllium</b>	<b>0.0012</b>		0.0010	0.00018	mg/L		09/24/19 11:51	10/13/19 19:55	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Cobalt</b>	<b>0.0022</b>		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Chromium</b>	<b>0.0024</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Copper</b>	<b>0.0011</b>	<b>J B</b>	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Nickel</b>	<b>0.00044</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Lead</b>	<b>0.00016</b>	<b>J</b>	0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:28	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Thallium</b>	<b>0.00021</b>	<b>J</b>	0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:28	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:28	1
<b>Zinc</b>	<b>0.0079</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 21:28	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		10/01/19 17:57	10/02/19 16:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>50</b>		10	10	mg/L			09/19/19 12:09	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-31**

**Lab Sample ID: 180-95726-23**

Date Collected: 09/11/19 10:00

Matrix: Ground Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Silver</b>	<b>0.0078</b>		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Arsenic</b>	<b>0.00032</b>	<b>J</b>	0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Calcium</b>	<b>12</b>		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Barium</b>	<b>0.0055</b>	<b>J B</b>	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Beryllium</b>	<b>0.00092</b>	<b>J ^</b>	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:32	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Cobalt</b>	<b>0.00044</b>	<b>J</b>	0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Chromium</b>	<b>0.0084</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Copper</b>	<b>0.0063</b>	<b>B</b>	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Nickel</b>	<b>0.010</b>		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Lead</b>	<b>0.0013</b>		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Vanadium</b>	<b>0.0025</b>		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:32	1
<b>Zinc</b>	<b>0.081</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 21:32	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		10/01/19 17:57	10/02/19 16:26	1

**Client Sample ID: EB-2-9-12-19**

**Lab Sample ID: 180-95726-24**

Date Collected: 09/12/19 09:40

Matrix: Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 14:38	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 14:38	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 21:35	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:35	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:35	1
Calcium	<0.13		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:35	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:35	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:35	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:35	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:35	1
<b>Chromium</b>	<b>0.0019</b>		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:35	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:35	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:35	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:35	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:35	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:35	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: EB-2-9-12-19**

**Lab Sample ID: 180-95726-24**

Date Collected: 09/12/19 09:40

Matrix: Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0037	J B	0.0050	0.0032	mg/L	-	09/24/19 11:51	10/12/19 21:35	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	-	10/01/19 17:57	10/02/19 16:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		10	10	mg/L	-		09/19/19 12:09	1

**Client Sample ID: GWC-13**

**Lab Sample ID: 180-95726-25**

Date Collected: 09/12/19 13:41

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0		1.0	0.71	mg/L	-		09/22/19 14:53	1
Fluoride	0.065	J	0.10	0.026	mg/L	-		09/22/19 14:53	1
Sulfate	2.2		1.0	0.38	mg/L	-		09/22/19 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Silver	<0.00018		0.0010	0.00018	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Arsenic	<0.00032		0.0010	0.00032	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Calcium	4.2		0.50	0.13	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Barium	0.0054	J B	0.010	0.0016	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Cadmium	<0.00013		0.0010	0.00013	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Cobalt	<0.000075		0.00050	0.000075	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Chromium	0.0027		0.0020	0.0015	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Copper	<0.00063		0.0020	0.00063	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Nickel	0.00055	J	0.0010	0.00034	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Lead	<0.00013		0.0010	0.00013	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Antimony	<0.00038		0.0020	0.00038	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Vanadium	0.0015		0.0010	0.00099	mg/L	-	09/24/19 11:51	10/12/19 21:38	1
Zinc	0.0085	B	0.0050	0.0032	mg/L	-	09/24/19 11:51	10/12/19 21:38	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	-	10/02/19 15:35	10/03/19 13:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	73		10	10	mg/L	-		09/19/19 12:09	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: GWC-14**

**Lab Sample ID: 180-95726-26**

Date Collected: 09/12/19 14:40

Matrix: Ground Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		5.0	3.6	mg/L			10/03/19 16:45	5
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 15:08	1
Sulfate	22		1.0	0.38	mg/L			09/22/19 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.8		0.080	0.039	mg/L		09/24/19 11:51	10/13/19 15:34	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:42	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 21:42	1
Calcium	52		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 21:42	1
Barium	0.32	B	0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 21:42	1
Beryllium	0.00092	J ^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 21:42	1
Cadmium	0.00052	J	0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:42	1
Cobalt	0.013		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 21:42	1
Chromium	0.0020		0.0020	0.0015	mg/L		09/24/19 11:51	10/12/19 21:42	1
Copper	0.0017	J B	0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 21:42	1
Nickel	0.016		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 21:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 21:42	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 21:42	1
Selenium	0.0032	J	0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 21:42	1
Thallium	0.00047	J	0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 21:42	1
Vanadium	0.0012		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 21:42	1
Zinc	0.019	B	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 21:42	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		10/02/19 15:35	10/03/19 13:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	470		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: FB-3-9-12-19**

**Lab Sample ID: 180-95726-27**

Date Collected: 09/12/19 11:25

Matrix: Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 16:08	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 16:08	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/24/19 14:33	09/27/19 16:55	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:55	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 14:33	09/27/19 16:55	1
Calcium	<0.13		0.50	0.13	mg/L		09/24/19 14:33	09/27/19 16:55	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 16:55	1
Beryllium	0.00022	J	0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:55	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:55	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: FB-3-9-12-19**

**Lab Sample ID: 180-95726-27**

Date Collected: 09/12/19 11:25

Matrix: Water

Date Received: 09/14/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/24/19 14:33	09/27/19 16:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/24/19 14:33	09/27/19 16:55	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 16:55	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 16:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:55	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 14:33	09/27/19 16:55	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 14:33	09/27/19 16:55	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 14:33	09/27/19 16:55	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 16:55	1
<b>Zinc</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 16:55	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		10/02/19 15:35	10/03/19 13:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>20</b>		10	10	mg/L			09/19/19 12:09	1

**Client Sample ID: EB-3-9-12-19**

**Lab Sample ID: 180-95726-28**

Date Collected: 09/12/19 10:45

Matrix: Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 16:23	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 16:23	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 16:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/24/19 14:33	09/27/19 16:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:58	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 14:33	09/27/19 16:58	1
Calcium	<0.13		0.50	0.13	mg/L		09/24/19 14:33	09/27/19 16:58	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 16:58	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:58	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:58	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/24/19 14:33	09/27/19 16:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/24/19 14:33	09/27/19 16:58	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 16:58	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 16:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:58	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 14:33	09/27/19 16:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 14:33	09/27/19 16:58	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 14:33	09/27/19 16:58	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 16:58	1
<b>Zinc</b>	<b>0.0051</b>		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 16:58	1

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# Client Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

**Client Sample ID: EB-3-9-12-19**

**Lab Sample ID: 180-95726-28**

Date Collected: 09/12/19 10:45

Matrix: Water

Date Received: 09/14/19 09:45

**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		10/02/19 15:35	10/03/19 13:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:24	1

**Client Sample ID: DUPLICATE 3**

**Lab Sample ID: 180-95726-29**

Date Collected: 09/12/19 00:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.0		1.0	0.71	mg/L			09/22/19 16:37	1
Fluoride	0.067	J	0.10	0.026	mg/L			09/22/19 16:37	1
Sulfate	13		1.0	0.38	mg/L			09/22/19 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/24/19 14:33	09/27/19 17:02	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:02	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 14:33	09/27/19 17:02	1
Calcium	17		0.50	0.13	mg/L		09/24/19 14:33	09/27/19 17:02	1
Barium	0.075		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 17:02	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:02	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:02	1
Cobalt	0.017		0.00050	0.000075	mg/L		09/24/19 14:33	09/27/19 17:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/24/19 14:33	09/27/19 17:02	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 17:02	1
Nickel	0.0080		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 17:02	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:02	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 14:33	09/27/19 17:02	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 14:33	09/27/19 17:02	1
Thallium	0.00021	J	0.0010	0.00015	mg/L		09/24/19 14:33	09/27/19 17:02	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 17:02	1
Zinc	0.0090		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 17:02	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		10/02/19 15:35	10/03/19 13:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/19/19 12:24	1



# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-292202/6**  
**Matrix: Water**  
**Analysis Batch: 292202**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 11:43	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 11:43	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 11:43	1

**Lab Sample ID: LCS 180-292202/5**  
**Matrix: Water**  
**Analysis Batch: 292202**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.7		mg/L		95	90 - 110
Fluoride	1.25	1.19		mg/L		95	90 - 110
Sulfate	25.0	23.4		mg/L		93	90 - 110

**Lab Sample ID: 180-95726-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 292202**

**Client Sample ID: GWA-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	22		25.0	47.4		mg/L		101	80 - 120
Fluoride	0.033	J	1.25	1.35		mg/L		105	80 - 120
Sulfate	43		25.0	67.7		mg/L		98	80 - 120

**Lab Sample ID: 180-95726-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 292202**

**Client Sample ID: GWA-3**  
**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	46.7		mg/L		98	80 - 120	2	20
Fluoride	0.033	J	1.25	1.33		mg/L		104	80 - 120	1	20
Sulfate	43		25.0	66.4		mg/L		92	80 - 120	2	20

**Lab Sample ID: 180-95726-11 MS**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: DUP-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.2		25.0	30.4		mg/L		105	80 - 120
Fluoride	<0.026		1.25	1.36		mg/L		109	80 - 120
Sulfate	0.53	J	25.0	26.8		mg/L		105	80 - 120

**Lab Sample ID: 180-95726-11 MSD**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: DUP-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.2		25.0	30.3		mg/L		104	80 - 120	0	20
Fluoride	<0.026		1.25	1.36		mg/L		109	80 - 120	0	20
Sulfate	0.53	J	25.0	26.5		mg/L		104	80 - 120	1	20

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# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 180-292203/15**  
**Matrix: Water**  
**Analysis Batch: 292203**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 15:23	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 15:23	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 15:23	1

**Lab Sample ID: LCS 180-292203/5**  
**Matrix: Water**  
**Analysis Batch: 292203**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.19		mg/L		95	90 - 110
Sulfate	25.0	24.4		mg/L		98	90 - 110

**Lab Sample ID: 180-95726-21 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 292203**

**Client Sample ID: GWC-26**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.3		25.0	29.2		mg/L		108	80 - 120
Fluoride	<0.026		1.25	1.25		mg/L		100	80 - 120
Sulfate	<0.38		25.0	26.5		mg/L		106	80 - 120

**Lab Sample ID: 180-95726-21 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 292203**

**Client Sample ID: GWC-26**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.3		25.0	26.7		mg/L		98	80 - 120	9	20
Fluoride	<0.026		1.25	1.14		mg/L		92	80 - 120	9	20
Sulfate	<0.38		25.0	23.9		mg/L		96	80 - 120	10	20

**Lab Sample ID: MB 180-293618/6**  
**Matrix: Water**  
**Analysis Batch: 293618**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/03/19 14:59	1

**Lab Sample ID: LCS 180-293618/5**  
**Matrix: Water**  
**Analysis Batch: 293618**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.2		mg/L		105	90 - 110

# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-292308/1-A**  
**Matrix: Water**  
**Analysis Batch: 293054**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292308**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.039		0.080	0.039	mg/L		09/23/19 12:59	09/27/19 23:16	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/27/19 23:16	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/23/19 12:59	09/27/19 23:16	1
Calcium	<0.13		0.50	0.13	mg/L		09/23/19 12:59	09/27/19 23:16	1
Barium	<0.0016		0.010	0.0016	mg/L		09/23/19 12:59	09/27/19 23:16	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/23/19 12:59	09/27/19 23:16	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/27/19 23:16	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/23/19 12:59	09/27/19 23:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/19 12:59	09/27/19 23:16	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/23/19 12:59	09/27/19 23:16	1
Nickel	0.000554	J	0.0010	0.00034	mg/L		09/23/19 12:59	09/27/19 23:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/23/19 12:59	09/27/19 23:16	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/23/19 12:59	09/27/19 23:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/23/19 12:59	09/27/19 23:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/23/19 12:59	09/27/19 23:16	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/23/19 12:59	09/27/19 23:16	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/23/19 12:59	09/27/19 23:16	1

**Lab Sample ID: MB 180-292308/1-A**  
**Matrix: Water**  
**Analysis Batch: 293128**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292308**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.039		0.080	0.039	mg/L		09/23/19 12:59	09/28/19 15:26	1
Calcium	<0.13		0.50	0.13	mg/L		09/23/19 12:59	09/28/19 15:26	1
Barium	<0.0016		0.010	0.0016	mg/L		09/23/19 12:59	09/28/19 15:26	1

**Lab Sample ID: LCS 180-292308/2-A**  
**Matrix: Water**  
**Analysis Batch: 293054**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292308**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Boron	1.25	1.19		mg/L		95		80 - 120
Silver	0.250	0.263		mg/L		105		80 - 120
Arsenic	1.00	0.993		mg/L		99		80 - 120
Calcium	25.0	25.9		mg/L		104		80 - 120
Barium	1.00	1.05		mg/L		105		80 - 120
Beryllium	0.500	0.529		mg/L		106		80 - 120
Cadmium	0.500	0.535		mg/L		107		80 - 120
Cobalt	0.500	0.494		mg/L		99		80 - 120
Chromium	0.500	0.531		mg/L		106		80 - 120
Copper	0.500	0.492		mg/L		98		80 - 120
Nickel	0.500	0.493		mg/L		99		80 - 120
Lead	0.500	0.526		mg/L		105		80 - 120
Antimony	0.250	0.276		mg/L		110		80 - 120
Selenium	1.00	1.07		mg/L		107		80 - 120
Thallium	1.00	1.08		mg/L		108		80 - 120
Vanadium	0.500	0.531		mg/L		106		80 - 120
Zinc	0.250	0.250		mg/L		100		80 - 120

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# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: LCS 180-292308/2-A**  
**Matrix: Water**  
**Analysis Batch: 293128**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292308**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.18		mg/L		94	80 - 120
Calcium	25.0	26.1		mg/L		104	80 - 120
Barium	1.00	1.08		mg/L		108	80 - 120

**Lab Sample ID: MB 180-292403/1-A**  
**Matrix: Water**  
**Analysis Batch: 294736**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292403**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039	^	0.080	0.039	mg/L		09/24/19 11:51	10/12/19 20:07	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:07	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 11:51	10/12/19 20:07	1
Calcium	<0.13		0.50	0.13	mg/L		09/24/19 11:51	10/12/19 20:07	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 11:51	10/12/19 20:07	1
Beryllium	<0.00018	^	0.0010	0.00018	mg/L		09/24/19 11:51	10/12/19 20:07	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:07	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/24/19 11:51	10/12/19 20:07	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 11:51	10/12/19 20:07	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 11:51	10/12/19 20:07	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 11:51	10/12/19 20:07	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 11:51	10/12/19 20:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 11:51	10/12/19 20:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 11:51	10/12/19 20:07	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 11:51	10/12/19 20:07	1
Zinc	0.00377	J	0.0050	0.0032	mg/L		09/24/19 11:51	10/12/19 20:07	1

**Lab Sample ID: MB 180-292403/1-A**  
**Matrix: Water**  
**Analysis Batch: 294834**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292403**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0015		0.0020	0.0015	mg/L		09/24/19 11:51	10/13/19 15:10	1

**Lab Sample ID: LCS 180-292403/2-A**  
**Matrix: Water**  
**Analysis Batch: 294736**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292403**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.48	^	mg/L		118	80 - 120
Silver	0.250	0.252		mg/L		101	80 - 120
Arsenic	1.00	0.938		mg/L		94	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Barium	1.00	1.04	B	mg/L		104	80 - 120
Beryllium	0.500	0.601	^	mg/L		120	80 - 120
Cadmium	0.500	0.523		mg/L		105	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Chromium	0.500	0.520		mg/L		104	80 - 120
Copper	0.500	0.538	B	mg/L		108	80 - 120
Nickel	0.500	0.527		mg/L		105	80 - 120

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# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

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

**Lab Sample ID: LCS 180-292403/2-A**  
**Matrix: Water**  
**Analysis Batch: 294736**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292403**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.513		mg/L		103	80 - 120
Antimony	0.250	0.276		mg/L		110	80 - 120
Selenium	1.00	1.04		mg/L		104	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120
Vanadium	0.500	0.519		mg/L		104	80 - 120
Zinc	0.250	0.275	B	mg/L		110	80 - 120

**Lab Sample ID: 180-95726-7 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 294736**

**Client Sample ID: GWC-21**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292403**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	<0.039	^	1.25	1.54	^	mg/L		123	75 - 125
Boron	<0.039	^	1.25	1.54	^	mg/L		123	75 - 125
Silver	<0.00018		0.250	0.254		mg/L		102	75 - 125
Silver	<0.00018		0.250	0.254		mg/L		102	75 - 125
Arsenic	0.00047	J	1.00	0.945		mg/L		94	75 - 125
Arsenic	0.00047	J	1.00	0.945		mg/L		94	75 - 125
Calcium	4.1		25.0	31.1		mg/L		108	75 - 125
Calcium	4.1		25.0	31.1		mg/L		108	75 - 125
Barium	0.028	B	1.00	1.06	B	mg/L		103	75 - 125
Barium	0.028	B	1.00	1.06		mg/L		103	75 - 125
Beryllium	0.00020	J F1 ^	0.500	0.636	F1 ^	mg/L		127	75 - 125
Beryllium	0.00020	J F1 ^	0.500	0.636	F1 ^	mg/L		127	75 - 125
Cadmium	0.00018	J	0.500	0.515		mg/L		103	75 - 125
Cadmium	0.00018	J	0.500	0.515		mg/L		103	75 - 125
Cobalt	0.0017		0.500	0.527		mg/L		105	75 - 125
Cobalt	0.0017		0.500	0.527		mg/L		105	75 - 125
Chromium	0.0022		0.500	0.520		mg/L		104	75 - 125
Chromium	0.0022		0.500	0.520		mg/L		104	75 - 125
Copper	<0.00063		0.500	0.524	B	mg/L		105	75 - 125
Copper	<0.00063		0.500	0.524		mg/L		105	75 - 125
Nickel	0.00066	J	0.500	0.520		mg/L		104	75 - 125
Nickel	0.00066	J	0.500	0.520		mg/L		104	75 - 125
Lead	0.00017	J	0.500	0.516		mg/L		103	75 - 125
Lead	0.00017	J	0.500	0.516		mg/L		103	75 - 125
Antimony	<0.00038		0.250	0.278		mg/L		111	75 - 125
Antimony	<0.00038		0.250	0.278		mg/L		111	75 - 125
Selenium	<0.0015		1.00	1.01		mg/L		101	75 - 125
Selenium	<0.0015		1.00	1.01		mg/L		101	75 - 125
Thallium	0.00026	J	1.00	1.06		mg/L		106	75 - 125
Thallium	0.00026	J	1.00	1.06		mg/L		106	75 - 125
Vanadium	<0.00099		0.500	0.518		mg/L		104	75 - 125
Vanadium	<0.00099		0.500	0.518		mg/L		104	75 - 125
Zinc	0.0068	B	0.250	0.277	B	mg/L		108	75 - 125
Zinc	0.0068	B	0.250	0.277		mg/L		108	75 - 125

# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

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

**Lab Sample ID: 180-95726-7 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 294736**

**Client Sample ID: GWC-21**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292403**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	<0.039	^	1.25	1.53	^	mg/L		122	75 - 125	1	20
Boron	<0.039	^	1.25	1.53	^	mg/L		122	75 - 125	1	20
Silver	<0.00018		0.250	0.254		mg/L		101	75 - 125	0	20
Silver	<0.00018		0.250	0.254		mg/L		101	75 - 125	0	20
Arsenic	0.00047	J	1.00	0.902		mg/L		90	75 - 125	5	20
Arsenic	0.00047	J	1.00	0.902		mg/L		90	75 - 125	5	20
Calcium	4.1		25.0	30.8		mg/L		107	75 - 125	1	20
Calcium	4.1		25.0	30.8		mg/L		107	75 - 125	1	20
Barium	0.028	B	1.00	1.05	B	mg/L		103	75 - 125	0	20
Barium	0.028	B	1.00	1.05		mg/L		103	75 - 125	0	20
Beryllium	0.00020	J F1 ^	0.500	0.571	^	mg/L		114	75 - 125	11	20
Beryllium	0.00020	J F1 ^	0.500	0.571	^	mg/L		114	75 - 125	11	20
Cadmium	0.00018	J	0.500	0.487		mg/L		97	75 - 125	6	20
Cadmium	0.00018	J	0.500	0.487		mg/L		97	75 - 125	6	20
Cobalt	0.0017		0.500	0.496		mg/L		99	75 - 125	6	20
Cobalt	0.0017		0.500	0.496		mg/L		99	75 - 125	6	20
Chromium	0.0022		0.500	0.497		mg/L		99	75 - 125	5	20
Chromium	0.0022		0.500	0.497		mg/L		99	75 - 125	5	20
Copper	<0.00063		0.500	0.503	B	mg/L		101	75 - 125	4	20
Copper	<0.00063		0.500	0.503		mg/L		101	75 - 125	4	20
Nickel	0.00066	J	0.500	0.500		mg/L		100	75 - 125	4	20
Nickel	0.00066	J	0.500	0.500		mg/L		100	75 - 125	4	20
Lead	0.00017	J	0.500	0.490		mg/L		98	75 - 125	5	20
Lead	0.00017	J	0.500	0.490		mg/L		98	75 - 125	5	20
Antimony	<0.00038		0.250	0.272		mg/L		109	75 - 125	2	20
Antimony	<0.00038		0.250	0.272		mg/L		109	75 - 125	2	20
Selenium	<0.0015		1.00	0.975		mg/L		97	75 - 125	4	20
Selenium	<0.0015		1.00	0.975		mg/L		97	75 - 125	4	20
Thallium	0.00026	J	1.00	1.03		mg/L		103	75 - 125	2	20
Thallium	0.00026	J	1.00	1.03		mg/L		103	75 - 125	2	20
Vanadium	<0.00099		0.500	0.497		mg/L		99	75 - 125	4	20
Vanadium	<0.00099		0.500	0.497		mg/L		99	75 - 125	4	20
Zinc	0.0068	B	0.250	0.275	B	mg/L		107	75 - 125	1	20
Zinc	0.0068	B	0.250	0.275		mg/L		107	75 - 125	1	20

**Lab Sample ID: MB 180-292487/1-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/24/19 14:33	09/27/19 16:38	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:38	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/24/19 14:33	09/27/19 16:38	1
Calcium	<0.13		0.50	0.13	mg/L		09/24/19 14:33	09/27/19 16:38	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 16:38	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:38	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:38	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/24/19 14:33	09/27/19 16:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/24/19 14:33	09/27/19 16:38	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

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

**Lab Sample ID: MB 180-292487/1-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 16:38	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 16:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:38	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/24/19 14:33	09/27/19 16:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 16:38	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 16:38	1

**Lab Sample ID: LCS 180-292487/2-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.18		mg/L		95	80 - 120
Silver	0.250	0.253		mg/L		101	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Calcium	25.0	27.3		mg/L		109	80 - 120
Barium	1.00	1.10		mg/L		110	80 - 120
Beryllium	0.500	0.511		mg/L		102	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Cobalt	0.500	0.488		mg/L		98	80 - 120
Chromium	0.500	0.520		mg/L		104	80 - 120
Copper	0.500	0.523		mg/L		105	80 - 120
Nickel	0.500	0.489		mg/L		98	80 - 120
Lead	0.500	0.526		mg/L		105	80 - 120
Antimony	0.250	0.282		mg/L		113	80 - 120
Selenium	1.00	1.08		mg/L		108	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Zinc	0.250	0.289		mg/L		116	80 - 120

**Lab Sample ID: MB 180-294598/1-A**  
**Matrix: Water**  
**Analysis Batch: 294834**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 294598**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		10/11/19 11:57	10/13/19 19:35	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		10/11/19 11:57	10/13/19 19:35	1
Calcium	<0.13		0.50	0.13	mg/L		10/11/19 11:57	10/13/19 19:35	1
Barium	<0.0016		0.010	0.0016	mg/L		10/11/19 11:57	10/13/19 19:35	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		10/11/19 11:57	10/13/19 19:35	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/11/19 11:57	10/13/19 19:35	1
Cobalt	0.0000950	J	0.00050	0.000075	mg/L		10/11/19 11:57	10/13/19 19:35	1
Chromium	0.00183	J	0.0020	0.0015	mg/L		10/11/19 11:57	10/13/19 19:35	1
Copper	<0.00063		0.0020	0.00063	mg/L		10/11/19 11:57	10/13/19 19:35	1
Nickel	<0.00034		0.0010	0.00034	mg/L		10/11/19 11:57	10/13/19 19:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/11/19 11:57	10/13/19 19:35	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/11/19 11:57	10/13/19 19:35	1

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# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

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

Lab Sample ID: MB 180-294598/1-A  
Matrix: Water  
Analysis Batch: 294834

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 294598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		10/11/19 11:57	10/13/19 19:35	1
Thallium	0.000165	J	0.0010	0.00015	mg/L		10/11/19 11:57	10/13/19 19:35	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		10/11/19 11:57	10/13/19 19:35	1
Zinc	0.00393	J	0.0050	0.0032	mg/L		10/11/19 11:57	10/13/19 19:35	1

Lab Sample ID: MB 180-294598/1-A  
Matrix: Water  
Analysis Batch: 294986

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 294598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		10/11/19 11:57	10/15/19 16:08	1

Lab Sample ID: LCS 180-294598/2-A  
Matrix: Water  
Analysis Batch: 294986

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 294598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.24		mg/L		99	80 - 120
Silver	0.250	0.271		mg/L		108	80 - 120
Arsenic	1.00	0.969		mg/L		97	80 - 120
Calcium	25.0	21.2		mg/L		85	80 - 120
Barium	1.00	1.05		mg/L		105	80 - 120
Beryllium	0.500	0.491		mg/L		98	80 - 120
Cadmium	0.500	0.529		mg/L		106	80 - 120
Cobalt	0.500	0.491		mg/L		98	80 - 120
Chromium	0.500	0.526		mg/L		105	80 - 120
Copper	0.500	0.489		mg/L		98	80 - 120
Nickel	0.500	0.492		mg/L		98	80 - 120
Lead	0.500	0.521		mg/L		104	80 - 120
Antimony	0.250	0.274		mg/L		109	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120
Vanadium	0.500	0.522		mg/L		104	80 - 120
Zinc	0.250	0.267		mg/L		107	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293394/1-A  
Matrix: Water  
Analysis Batch: 293551

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 293394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:57	10/02/19 15:52	1

Lab Sample ID: LCS 180-293394/2-A  
Matrix: Water  
Analysis Batch: 293551

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 293394

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00248		mg/L		99	80 - 120

Eurofins TestAmerica, Pittsburgh



# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: 180-95726-5 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 293551**

**Client Sample ID: GWC-18**  
**Prep Type: Total/NA**  
**Prep Batch: 293394**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000954		mg/L		95	75 - 125

**Lab Sample ID: 180-95726-5 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 293551**

**Client Sample ID: GWC-18**  
**Prep Type: Total/NA**  
**Prep Batch: 293394**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000936		mg/L		94	75 - 125	2	20

**Lab Sample ID: MB 180-293395/1-A**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:29	1

**Lab Sample ID: LCS 180-293395/2-A**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00246		mg/L		98	80 - 120

**Lab Sample ID: MB 180-293530/1-A**  
**Matrix: Water**  
**Analysis Batch: 293683**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:26	1

**Lab Sample ID: LCS 180-293530/2-A**  
**Matrix: Water**  
**Analysis Batch: 293683**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

**Lab Sample ID: 180-95726-25 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 293683**

**Client Sample ID: GWC-13**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**  
**%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: 180-95726-25 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 293683**

**Client Sample ID: GWC-13**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000975		mg/L		98	75 - 125	2	20

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# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-291463/2**  
**Matrix: Water**  
**Analysis Batch: 291463**

**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			09/16/19 11:39	1

**Lab Sample ID: LCS 180-291463/1**  
**Matrix: Water**  
**Analysis Batch: 291463**

**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	633	580		mg/L		92	80 - 120

**Lab Sample ID: MB 180-291487/2**  
**Matrix: Water**  
**Analysis Batch: 291487**

**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			09/16/19 13:13	1

**Lab Sample ID: LCS 180-291487/1**  
**Matrix: Water**  
**Analysis Batch: 291487**

**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	633	624		mg/L		99	80 - 120

**Lab Sample ID: MB 180-291929/2**  
**Matrix: Water**  
**Analysis Batch: 291929**

**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			09/19/19 12:09	1

**Lab Sample ID: LCS 180-291929/1**  
**Matrix: Water**  
**Analysis Batch: 291929**

**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	633	632		mg/L		100	80 - 120

**Lab Sample ID: 180-95726-15 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 291929**

**Client Sample ID: GWC-6**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	170		158		mg/L		7	10

**Lab Sample ID: MB 180-291934/2**  
**Matrix: Water**  
**Analysis Batch: 291934**

**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			09/19/19 12:24	1

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# QC Sample Results

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

Job ID: 180-95726-1  
SDG: Landfill

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 180-291934/1  
Matrix: Water  
Analysis Batch: 291934

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	633	542		mg/L		86	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Association Summary

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

Job ID: 180-95726-1  
SDG: Landfill

## HPLC/IC

### Analysis Batch: 292202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-1	GWA-3	Total/NA	Ground Water	300.0	
180-95726-2	GWC-12	Total/NA	Ground Water	300.0	
180-95726-3	GWC-16	Total/NA	Ground Water	300.0	
180-95726-4	GWC-17	Total/NA	Ground Water	300.0	
180-95726-5	GWC-18	Total/NA	Ground Water	300.0	
180-95726-6	GWC-20	Total/NA	Ground Water	300.0	
180-95726-7	GWC-21	Total/NA	Ground Water	300.0	
180-95726-8	GWC-24	Total/NA	Ground Water	300.0	
180-95726-9	GWC-25	Total/NA	Ground Water	300.0	
180-95726-10	GWC-34	Total/NA	Ground Water	300.0	
180-95726-11	DUP-2	Total/NA	Water	300.0	
180-95726-12	EB-1-9-11-19	Total/NA	Water	300.0	
180-95726-13	FB-2-9-11-19	Total/NA	Water	300.0	
180-95726-14	GWC-5	Total/NA	Ground Water	300.0	
180-95726-15	GWC-6	Total/NA	Ground Water	300.0	
180-95726-16	GWC-19	Total/NA	Ground Water	300.0	
180-95726-17	GWC-32	Total/NA	Ground Water	300.0	
180-95726-18	GWC-33	Total/NA	Ground Water	300.0	
180-95726-19	GWC-35	Total/NA	Ground Water	300.0	
180-95726-20	GWC-23	Total/NA	Ground Water	300.0	
MB 180-292202/6	Method Blank	Total/NA	Water	300.0	
LCS 180-292202/5	Lab Control Sample	Total/NA	Water	300.0	
180-95726-1 MS	GWA-3	Total/NA	Ground Water	300.0	
180-95726-1 MSD	GWA-3	Total/NA	Ground Water	300.0	
180-95726-11 MS	DUP-2	Total/NA	Water	300.0	
180-95726-11 MSD	DUP-2	Total/NA	Water	300.0	

### Analysis Batch: 292203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-21	GWC-26	Total/NA	Ground Water	300.0	
180-95726-22	GWC-27	Total/NA	Ground Water	300.0	
180-95726-24	EB-2-9-12-19	Total/NA	Water	300.0	
180-95726-25	GWC-13	Total/NA	Ground Water	300.0	
180-95726-26	GWC-14	Total/NA	Ground Water	300.0	
180-95726-27	FB-3-9-12-19	Total/NA	Water	300.0	
180-95726-28	EB-3-9-12-19	Total/NA	Water	300.0	
180-95726-29	DUPLICATE 3	Total/NA	Water	300.0	
MB 180-292203/15	Method Blank	Total/NA	Water	300.0	
LCS 180-292203/5	Lab Control Sample	Total/NA	Water	300.0	
180-95726-21 MS	GWC-26	Total/NA	Ground Water	300.0	
180-95726-21 MSD	GWC-26	Total/NA	Ground Water	300.0	

### Analysis Batch: 293618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-26	GWC-14	Total/NA	Ground Water	300.0	
MB 180-293618/6	Method Blank	Total/NA	Water	300.0	
LCS 180-293618/5	Lab Control Sample	Total/NA	Water	300.0	

# QC Association Summary

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

Job ID: 180-95726-1  
SDG: Landfill

## Metals

### Prep Batch: 292308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-1	GWA-3	Total Recoverable	Ground Water	3005A	
180-95726-2	GWC-12	Total Recoverable	Ground Water	3005A	
180-95726-3	GWC-16	Total Recoverable	Ground Water	3005A	
180-95726-4	GWC-17	Total Recoverable	Ground Water	3005A	
180-95726-5	GWC-18	Total Recoverable	Ground Water	3005A	
180-95726-6	GWC-20	Total Recoverable	Ground Water	3005A	
MB 180-292308/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292308/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 292403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-7	GWC-21	Total Recoverable	Ground Water	3005A	
180-95726-8	GWC-24	Total Recoverable	Ground Water	3005A	
180-95726-9	GWC-25	Total Recoverable	Ground Water	3005A	
180-95726-10	GWC-34	Total Recoverable	Ground Water	3005A	
180-95726-11	DUP-2	Total Recoverable	Water	3005A	
180-95726-12	EB-1-9-11-19	Total Recoverable	Water	3005A	
180-95726-13	FB-2-9-11-19	Total Recoverable	Water	3005A	
180-95726-14	GWC-5	Total Recoverable	Ground Water	3005A	
180-95726-15	GWC-6	Total Recoverable	Ground Water	3005A	
180-95726-16	GWC-19	Total Recoverable	Ground Water	3005A	
180-95726-17	GWC-32	Total Recoverable	Ground Water	3005A	
180-95726-18	GWC-33	Total Recoverable	Ground Water	3005A	
180-95726-19	GWC-35	Total Recoverable	Ground Water	3005A	
180-95726-20	GWC-23	Total Recoverable	Ground Water	3005A	
180-95726-21	GWC-26	Total Recoverable	Ground Water	3005A	
180-95726-22	GWC-27	Total Recoverable	Ground Water	3005A	
180-95726-23	GWC-31	Total Recoverable	Ground Water	3005A	
180-95726-24	EB-2-9-12-19	Total Recoverable	Water	3005A	
180-95726-25	GWC-13	Total Recoverable	Ground Water	3005A	
180-95726-26	GWC-14	Total Recoverable	Ground Water	3005A	
MB 180-292403/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292403/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-95726-7 MS	GWC-21	Total Recoverable	Ground Water	3005A	
180-95726-7 MSD	GWC-21	Total Recoverable	Ground Water	3005A	

### Prep Batch: 292487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-27	FB-3-9-12-19	Total Recoverable	Water	3005A	
180-95726-28	EB-3-9-12-19	Total Recoverable	Water	3005A	
180-95726-29	DUPLICATE 3	Total Recoverable	Water	3005A	
MB 180-292487/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292487/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 293025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-27	FB-3-9-12-19	Total Recoverable	Water	EPA 6020	292487
180-95726-28	EB-3-9-12-19	Total Recoverable	Water	EPA 6020	292487
180-95726-29	DUPLICATE 3	Total Recoverable	Water	EPA 6020	292487
MB 180-292487/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292487
LCS 180-292487/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292487

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-95726-1  
SDG: Landfill

## Metals

### Analysis Batch: 293054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-1	GWA-3	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-2	GWC-12	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-3	GWC-16	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-4	GWC-17	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-5	GWC-18	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-6	GWC-20	Total Recoverable	Ground Water	EPA 6020	292308
MB 180-292308/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292308
LCS 180-292308/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292308

### Analysis Batch: 293128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-1	GWA-3	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-2	GWC-12	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-3	GWC-16	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-4	GWC-17	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-5	GWC-18	Total Recoverable	Ground Water	EPA 6020	292308
180-95726-6	GWC-20	Total Recoverable	Ground Water	EPA 6020	292308
MB 180-292308/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292308
LCS 180-292308/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292308

### Prep Batch: 293394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-5	GWC-18	Total/NA	Ground Water	7470A	
180-95726-6	GWC-20	Total/NA	Ground Water	7470A	
180-95726-7	GWC-21	Total/NA	Ground Water	7470A	
180-95726-8	GWC-24	Total/NA	Ground Water	7470A	
180-95726-9	GWC-25	Total/NA	Ground Water	7470A	
180-95726-10	GWC-34	Total/NA	Ground Water	7470A	
180-95726-11	DUP-2	Total/NA	Water	7470A	
180-95726-12	EB-1-9-11-19	Total/NA	Water	7470A	
180-95726-13	FB-2-9-11-19	Total/NA	Water	7470A	
180-95726-14	GWC-5	Total/NA	Ground Water	7470A	
180-95726-15	GWC-6	Total/NA	Ground Water	7470A	
180-95726-16	GWC-19	Total/NA	Ground Water	7470A	
180-95726-17	GWC-32	Total/NA	Ground Water	7470A	
180-95726-18	GWC-33	Total/NA	Ground Water	7470A	
180-95726-19	GWC-35	Total/NA	Ground Water	7470A	
180-95726-20	GWC-23	Total/NA	Ground Water	7470A	
180-95726-21	GWC-26	Total/NA	Ground Water	7470A	
180-95726-22	GWC-27	Total/NA	Ground Water	7470A	
180-95726-23	GWC-31	Total/NA	Ground Water	7470A	
180-95726-24	EB-2-9-12-19	Total/NA	Water	7470A	
MB 180-293394/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293394/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-95726-5 MS	GWC-18	Total/NA	Ground Water	7470A	
180-95726-5 MSD	GWC-18	Total/NA	Ground Water	7470A	

### Prep Batch: 293395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-1	GWA-3	Total/NA	Ground Water	7470A	
180-95726-2	GWC-12	Total/NA	Ground Water	7470A	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-95726-1  
SDG: Landfill

## Metals (Continued)

### Prep Batch: 293395 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-3	GWC-16	Total/NA	Ground Water	7470A	
180-95726-4	GWC-17	Total/NA	Ground Water	7470A	
MB 180-293395/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293395/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 293530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-25	GWC-13	Total/NA	Ground Water	7470A	
180-95726-26	GWC-14	Total/NA	Ground Water	7470A	
180-95726-27	FB-3-9-12-19	Total/NA	Water	7470A	
180-95726-28	EB-3-9-12-19	Total/NA	Water	7470A	
180-95726-29	DUPLICATE 3	Total/NA	Water	7470A	
MB 180-293530/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-95726-25 MS	GWC-13	Total/NA	Ground Water	7470A	
180-95726-25 MSD	GWC-13	Total/NA	Ground Water	7470A	

### Analysis Batch: 293551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-1	GWA-3	Total/NA	Ground Water	EPA 7470A	293395
180-95726-2	GWC-12	Total/NA	Ground Water	EPA 7470A	293395
180-95726-3	GWC-16	Total/NA	Ground Water	EPA 7470A	293395
180-95726-4	GWC-17	Total/NA	Ground Water	EPA 7470A	293395
180-95726-5	GWC-18	Total/NA	Ground Water	EPA 7470A	293394
180-95726-6	GWC-20	Total/NA	Ground Water	EPA 7470A	293394
180-95726-7	GWC-21	Total/NA	Ground Water	EPA 7470A	293394
180-95726-8	GWC-24	Total/NA	Ground Water	EPA 7470A	293394
180-95726-9	GWC-25	Total/NA	Ground Water	EPA 7470A	293394
180-95726-10	GWC-34	Total/NA	Ground Water	EPA 7470A	293394
180-95726-11	DUP-2	Total/NA	Water	EPA 7470A	293394
180-95726-12	EB-1-9-11-19	Total/NA	Water	EPA 7470A	293394
180-95726-13	FB-2-9-11-19	Total/NA	Water	EPA 7470A	293394
180-95726-14	GWC-5	Total/NA	Ground Water	EPA 7470A	293394
180-95726-15	GWC-6	Total/NA	Ground Water	EPA 7470A	293394
180-95726-16	GWC-19	Total/NA	Ground Water	EPA 7470A	293394
180-95726-17	GWC-32	Total/NA	Ground Water	EPA 7470A	293394
180-95726-18	GWC-33	Total/NA	Ground Water	EPA 7470A	293394
180-95726-19	GWC-35	Total/NA	Ground Water	EPA 7470A	293394
180-95726-20	GWC-23	Total/NA	Ground Water	EPA 7470A	293394
180-95726-21	GWC-26	Total/NA	Ground Water	EPA 7470A	293394
180-95726-22	GWC-27	Total/NA	Ground Water	EPA 7470A	293394
180-95726-23	GWC-31	Total/NA	Ground Water	EPA 7470A	293394
180-95726-24	EB-2-9-12-19	Total/NA	Water	EPA 7470A	293394
MB 180-293394/1-A	Method Blank	Total/NA	Water	EPA 7470A	293394
MB 180-293395/1-A	Method Blank	Total/NA	Water	EPA 7470A	293395
LCS 180-293394/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293394
LCS 180-293395/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293395
180-95726-5 MS	GWC-18	Total/NA	Ground Water	EPA 7470A	293394
180-95726-5 MSD	GWC-18	Total/NA	Ground Water	EPA 7470A	293394

# QC Association Summary

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

Job ID: 180-95726-1  
SDG: Landfill

## Metals

### Analysis Batch: 293683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-25	GWC-13	Total/NA	Ground Water	EPA 7470A	293530
180-95726-26	GWC-14	Total/NA	Ground Water	EPA 7470A	293530
180-95726-27	FB-3-9-12-19	Total/NA	Water	EPA 7470A	293530
180-95726-28	EB-3-9-12-19	Total/NA	Water	EPA 7470A	293530
180-95726-29	DUPLICATE 3	Total/NA	Water	EPA 7470A	293530
MB 180-293530/1-A	Method Blank	Total/NA	Water	EPA 7470A	293530
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293530
180-95726-25 MS	GWC-13	Total/NA	Ground Water	EPA 7470A	293530
180-95726-25 MSD	GWC-13	Total/NA	Ground Water	EPA 7470A	293530

### Prep Batch: 294598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-294598/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-294598/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 294736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-7	GWC-21	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-8	GWC-24	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-9	GWC-25	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-10	GWC-34	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-11	DUP-2	Total Recoverable	Water	EPA 6020	292403
180-95726-12	EB-1-9-11-19	Total Recoverable	Water	EPA 6020	292403
180-95726-13	FB-2-9-11-19	Total Recoverable	Water	EPA 6020	292403
180-95726-14	GWC-5	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-15	GWC-6	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-16	GWC-19	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-17	GWC-32	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-18	GWC-33	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-19	GWC-35	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-20	GWC-23	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-21	GWC-26	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-22	GWC-27	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-23	GWC-31	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-24	EB-2-9-12-19	Total Recoverable	Water	EPA 6020	292403
180-95726-25	GWC-13	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-26	GWC-14	Total Recoverable	Ground Water	EPA 6020	292403
MB 180-292403/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292403
LCS 180-292403/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292403
180-95726-7 MS	GWC-21	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-7 MSD	GWC-21	Total Recoverable	Ground Water	EPA 6020	292403

### Analysis Batch: 294834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-17	GWC-32	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-22	GWC-27	Total Recoverable	Ground Water	EPA 6020	292403
180-95726-26	GWC-14	Total Recoverable	Ground Water	EPA 6020	292403
MB 180-292403/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292403
MB 180-294598/1-A	Method Blank	Total Recoverable	Water	EPA 6020	294598



# QC Association Summary

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

Job ID: 180-95726-1  
SDG: Landfill

## Metals

### Analysis Batch: 294986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-294598/1-A	Method Blank	Total Recoverable	Water	EPA 6020	294598
LCS 180-294598/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	294598

## General Chemistry

### Analysis Batch: 291463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-5	GWC-18	Total/NA	Ground Water	SM 2540C	
180-95726-6	GWC-20	Total/NA	Ground Water	SM 2540C	
180-95726-7	GWC-21	Total/NA	Ground Water	SM 2540C	
180-95726-8	GWC-24	Total/NA	Ground Water	SM 2540C	
180-95726-9	GWC-25	Total/NA	Ground Water	SM 2540C	
180-95726-10	GWC-34	Total/NA	Ground Water	SM 2540C	
180-95726-11	DUP-2	Total/NA	Water	SM 2540C	
180-95726-12	EB-1-9-11-19	Total/NA	Water	SM 2540C	
180-95726-13	FB-2-9-11-19	Total/NA	Water	SM 2540C	
MB 180-291463/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291463/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-1	GWA-3	Total/NA	Ground Water	SM 2540C	
180-95726-2	GWC-12	Total/NA	Ground Water	SM 2540C	
180-95726-3	GWC-16	Total/NA	Ground Water	SM 2540C	
180-95726-4	GWC-17	Total/NA	Ground Water	SM 2540C	
MB 180-291487/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291487/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-14	GWC-5	Total/NA	Ground Water	SM 2540C	
180-95726-15	GWC-6	Total/NA	Ground Water	SM 2540C	
180-95726-16	GWC-19	Total/NA	Ground Water	SM 2540C	
180-95726-17	GWC-32	Total/NA	Ground Water	SM 2540C	
180-95726-18	GWC-33	Total/NA	Ground Water	SM 2540C	
180-95726-19	GWC-35	Total/NA	Ground Water	SM 2540C	
180-95726-20	GWC-23	Total/NA	Ground Water	SM 2540C	
180-95726-21	GWC-26	Total/NA	Ground Water	SM 2540C	
180-95726-22	GWC-27	Total/NA	Ground Water	SM 2540C	
180-95726-24	EB-2-9-12-19	Total/NA	Water	SM 2540C	
180-95726-25	GWC-13	Total/NA	Ground Water	SM 2540C	
180-95726-26	GWC-14	Total/NA	Ground Water	SM 2540C	
180-95726-27	FB-3-9-12-19	Total/NA	Water	SM 2540C	
MB 180-291929/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291929/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95726-15 DU	GWC-6	Total/NA	Ground Water	SM 2540C	

### Analysis Batch: 291934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95726-28	EB-3-9-12-19	Total/NA	Water	SM 2540C	
180-95726-29	DUPLICATE 3	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-95726-1  
SDG: Landfill

## General Chemistry (Continued)

### Analysis Batch: 291934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-291934/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291934/1	Lab Control Sample	Total/NA	Water	SM 2540C	

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# Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company		<b>Lab PM:</b> Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com							
Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [Redacted]		Sampler: [Redacted] Phone: 770-594-5998							
Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Carrier Tracking No(s): [Redacted]							
Due Date Requested: TAT Requested (days): [Redacted]		COC No: [Redacted]							
PO #: SCS10347656 WO #: [Redacted]		Page: 1 of 3 Job #: [Redacted]							
<b>Analysis Requested</b>									
Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> AP II 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 <sub>4</sub> & TDS (EPA 300 & SM 2540C) <input checked="" type="checkbox"/> D									
Total Number of Containers: [Redacted]									
<b>Special Instructions/Note:</b> APP III PLUS STATE METALS LIST									
<b>Preservation Codes:</b> 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 - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)									
<b>Other:</b>									
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastebulk, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	AP II 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 <sub>4</sub> & TDS (EPA 300 & SM 2540C)	Total Number of Containers	Special Instructions/Note
6WA-3	9-11-19	1015	G	Water	N	N	D	2	
6WC-12	9-11-19	1021	G	Water	N	N	D	2	
6WC-16	9-11-19	1136	G	Water	N	N	D	2	
6WC-17	9-11-19	1308	G	Water	N	N	D	2	
6WC-18	9-11-19	1411	G	Water	N	N	D	2	
6WC-20	9-11-19	1338	G	Water	N	N	D	2	
6WC-21	9-11-19	1115	G	Water	N	N	D	2	
6WC-24	9-11-19	1340	G	Water	N	N	D	2	
6WC-25	9-11-19	1540	G	Water	N	N	D	2	
6WC-34	9-11-19	1524	G	Water	N	N	D	2	
Duo-2	9-11-19	-	G	Water	N	N	D	2	
<b>Possible Hazard Identification</b> <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)									
<b>Sample Disposal / A fee may be assessed if samples are retained longer than:</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For									
<b>Special Instructions/QC Requirements:</b>									
Empty Kit Relinquished by:				Date:			Time:		
Relinquished by: [Signature]				Date: 9-13-19 / 1022			Time: 9:13/19 10:22		
Relinquished by: [Signature]				Date: 9/13/19 1140			Time: 9/13/19 1140		
Relinquished by: [Signature]				Date: 9/13/19 1205			Time: 9/13/19 12:05		
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:			Cooler Temperature(s) and Other Remarks: [Redacted]		



180-95726 Chain of Custody

Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [Redacted] Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Camer Tracking No(s): Page: 2 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSON#:		<b>Analysis Requested</b> Perform MS/MSD (Yes or No) APP III and State Permit Metals (EPA 6020 & 7470), As, B, Ba, Br, Ca, Cd, Cr, Co, Cu, Pb, Ni, Mn, Sb, Se, Ag, Tl, V, Zn, Hg, Cl, F, Fe, Ni, Pb, TDS (EPA 300.0 & SM 2540)	
<b>Sample Identification</b> Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) Preservation Code: Field Filtered Sample (Yes or No)		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 - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
Sample Date Sample Time Sample Type Matrix Preservation Code Field Filtered Sample		Special Instructions/Note: APP III PLUS STATE METALS LIST Partial Sample	
EB-1-9-11-19 EB-2-9-11-19 GWC-5 GWC-6 GWC-19 GWC-32 GWC-33 GWC-35 GWC-23 GWC-26 GWC-27		9-11-19 1015 9-11-19 1130 9-12-19 1219 9-12-19 1350 9-12-19 1029 9-12-19 1020 9-12-19 1113 9-12-19 1220 9-12-19 1225 9-12-19 1335 9-12-19 1435	
<b>Possible Hazard Identification</b> <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: 9-13-19 1022 Company: ACC		Received by: [Signature] Date/Time: 9/13/19 1027 Company: ACC	
Relinquished by: [Signature] Date/Time: 9/13/19 1140 Company: ACC		Received by: [Signature] Date/Time: 9/13/19 1140 Company: ACC	
Relinquished by: [Signature] Date/Time: 9/13/19 1205 Company: ACC		Received by: [Signature] Date/Time: 9/13/19 1205 Company: ACC	
Custody Seals Intact: Δ Yes Δ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: Subhwa... 9-14-19	

681-Atlanta

Ver: 08/04/2016 945

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9-13-19 16:00

Chain of Custody Record

<b>Client Information</b> Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Landfill Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): [blank]		COC No: [blank] Page: 3 of 3 Job #: [blank]	
Due Date Requested: [blank] TAT Requested (days): [blank]		Analysis Requested			
PO #: SCS10347656 WO #: [blank]		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: [blank]			
Project #: 40007709 SSOW#: [blank]		Total Number of Containers: [blank]			
Matrix (W=water, S=solid, O=wastoil, BT=Tissue, A=Air) Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code		Special Instructions/Note: APP III PLUS STATE METALS LIST Partial Sample			
GWC-31 EB-2-9-12-19 GWC-13 GWC-14		Field Filtered Sample (Yes or No) [X] D Perform MS/MSD (Yes or No) [X] D AP III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg, Cl, F, SO <sub>4</sub> , TDS (EPA 300.0 & SM 2640C)			
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: [blank]		Method of Shipment: [blank]			
Relinquished by: [blank]		Date/Time: 9-13-19 1022 Company: ACC			
Relinquished by: [blank]		Date/Time: 9/13/19 1140 Company: ACC			
Relinquished by: [blank]		Date/Time: 9/13/19 1205 Company: ACC			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: [blank]			

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Ver: 08/04/2016  
Albuquerque 9-14-19  
16-003

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95726-1

SDG Number: Landfill

**Login Number: 95726**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	False	Received extra samples not listed on COC.
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: 180-95962-1

Laboratory Sample Delivery Group: Surface Water  
Client Project/Site: CCR - Plant Wansley  
Revision: 1

**For:**

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

Attn: Joju Abraham



Authorized for release by:  
10/28/2019 11:33:10 AM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@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

Job ID: 180-95962-1  
SDG: Surface Water

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**Job ID: 180-95962-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

### Job Narrative 180-95962-1

Revised: to report Calcium

## Comments

No additional comments.

## Receipt

The samples were received on 9/19/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2° C, 1.6° C and 3.8° 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

Job ID: 180-95962-1  
SDG: Surface Water

## 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.

### Metals

Qualifier	Qualifier Description
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.

## 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

Job ID: 180-95962-1  
 SDG: Surface Water

## 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	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
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	01-31-20
Wisconsin	State	998027800	08-31-20

# Sample Summary

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

Job ID: 180-95962-1  
SDG: Surface Water

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95962-1	SWA-1	Water	09/17/19 13:30	09/19/19 09:00	
180-95962-2	SWA-6	Water	09/17/19 11:45	09/19/19 09:00	
180-95962-3	SWC-2	Surface Water	09/17/19 13:05	09/19/19 09:00	
180-95962-4	SWC-3	Surface Water	09/17/19 12:44	09/19/19 09:00	
180-95962-5	SWC-5	Surface Water	09/17/19 11:30	09/19/19 09:00	
180-95962-6	SWC-7	Surface Water	09/17/19 12:25	09/19/19 09:00	

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# Method Summary

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

Job ID: 180-95962-1  
SDG: Surface Water

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

#### Protocol References:

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

Job ID: 180-95962-1  
SDG: Surface Water

**Client Sample ID: SWA-1**

**Date Collected: 09/17/19 13:30**

**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95962-1**

**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			292226	09/24/19 02:47	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 20:39	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:10	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:35	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SWA-6**

**Date Collected: 09/17/19 11:45**

**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95962-2**

**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			292226	09/24/19 03:33	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 20:59	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:30	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:36	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SWC-2**

**Date Collected: 09/17/19 13:05**

**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95962-3**

**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	300.0		1			292226	09/24/19 03:49	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:02	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:33	WTR	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-95962-1  
SDG: Surface Water

**Client Sample ID: SWC-2**

**Lab Sample ID: 180-95962-3**

**Date Collected: 09/17/19 13:05**

**Matrix: Surface Water**

**Date Received: 09/19/19 09:00**

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	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:37	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SWC-3**

**Lab Sample ID: 180-95962-4**

**Date Collected: 09/17/19 12:44**

**Matrix: Surface Water**

**Date Received: 09/19/19 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	300.0		1			292226	09/24/19 04:04	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:06	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:36	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:38	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SWC-5**

**Lab Sample ID: 180-95962-5**

**Date Collected: 09/17/19 11:30**

**Matrix: Surface Water**

**Date Received: 09/19/19 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	300.0		1			292226	09/24/19 04:19	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:09	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:40	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:39	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-95962-1  
SDG: Surface Water

**Client Sample ID: SWC-7**

**Lab Sample ID: 180-95962-6**

**Date Collected: 09/17/19 12:25**

**Matrix: Surface Water**

**Date Received: 09/19/19 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	300.0		1			292226	09/24/19 05:05	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:12	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:43	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:40	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	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

MJH = Matthew Hartman

RJR = Ron Rosenbaum

RSK = Robert Kurtz

WTR = Bill Reinheimer



# Client Sample Results

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

Job ID: 180-95962-1  
SDG: Surface Water

**Client Sample ID: SWA-1**

**Lab Sample ID: 180-95962-1**

Date Collected: 09/17/19 13:30

Matrix: Water

Date Received: 09/19/19 09:00

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.71	mg/L			09/24/19 02:47	1
Fluoride	0.089	J	0.20	0.026	mg/L			09/24/19 02:47	1
Sulfate	2.1		1.0	0.38	mg/L			09/24/19 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00034	J	0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 20:39	1
Barium	0.017		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 20:39	1
Beryllium	0.00023	J B	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:39	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:39	1
Cobalt	0.00021	J B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 20:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 20:39	1
Lead	0.00017	J	0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:39	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 20:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 20:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 20:39	1
Calcium	4.0		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:10	1
Boron	0.040	J	0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:10	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 20:39	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 20:39	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:39	1
Vanadium	0.0010		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 20:39	1
Zinc	0.0045	J B	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 20:39	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		10/07/19 07:15	10/08/19 11:35	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		10	10	mg/L			09/24/19 11:55	1

**Client Sample ID: SWA-6**

**Lab Sample ID: 180-95962-2**

Date Collected: 09/17/19 11:45

Matrix: Water

Date Received: 09/19/19 09:00

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.71	mg/L			09/24/19 03:33	1
Fluoride	0.10	J	0.20	0.026	mg/L			09/24/19 03:33	1
Sulfate	9.3		1.0	0.38	mg/L			09/24/19 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00070	J	0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 20:59	1
Barium	0.022		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 20:59	1
Beryllium	0.00027	J B	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:59	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:59	1
Cobalt	0.00031	J B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 20:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 20:59	1
Lead	0.00018	J	0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:59	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95962-1  
SDG: Surface Water

**Client Sample ID: SWA-6**

**Lab Sample ID: 180-95962-2**

Date Collected: 09/17/19 11:45

Matrix: Water

Date Received: 09/19/19 09:00

**Method: EPA 6020 - 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		09/25/19 12:40	10/18/19 20:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 20:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 20:59	1
<b>Calcium</b>	<b>10</b>		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:30	1
<b>Boron</b>	<b>0.32</b>		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:30	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 20:59	1
<b>Nickel</b>	<b>0.00058</b>	<b>J</b>	0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 20:59	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:59	1
<b>Vanadium</b>	<b>0.0012</b>		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 20:59	1
<b>Zinc</b>	<b>0.0057</b>	<b>B</b>	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 20:59	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		10/07/19 07:15	10/08/19 11:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			09/24/19 11:55	1

**Client Sample ID: SWC-2**

**Lab Sample ID: 180-95962-3**

Date Collected: 09/17/19 13:05

Matrix: Surface Water

Date Received: 09/19/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.2</b>		1.0	0.71	mg/L			09/24/19 03:49	1
<b>Fluoride</b>	<b>0.17</b>	<b>J</b>	0.20	0.026	mg/L			09/24/19 03:49	1
<b>Sulfate</b>	<b>0.49</b>	<b>J</b>	1.0	0.38	mg/L			09/24/19 03:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0013</b>		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Barium</b>	<b>0.047</b>		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Beryllium</b>	<b>0.00021</b>	<b>J B</b>	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:02	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Cobalt</b>	<b>0.0043</b>	<b>B</b>	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Chromium</b>	<b>0.0023</b>		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Lead</b>	<b>0.00047</b>	<b>J</b>	0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:02	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:02	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:02	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Calcium</b>	<b>16</b>		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:33	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:33	1
<b>Copper</b>	<b>0.00083</b>	<b>J</b>	0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Nickel</b>	<b>0.00062</b>	<b>J</b>	0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:02	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Vanadium</b>	<b>0.0028</b>		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:02	1
<b>Zinc</b>	<b>0.0061</b>	<b>B</b>	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:02	1

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# Client Sample Results

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

Job ID: 180-95962-1  
SDG: Surface Water

## Client Sample ID: SWC-2

Date Collected: 09/17/19 13:05

Date Received: 09/19/19 09:00

## Lab Sample ID: 180-95962-3

Matrix: Surface Water

### 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		10/07/19 07:15	10/08/19 11:37	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			09/24/19 11:55	1

## Client Sample ID: SWC-3

Date Collected: 09/17/19 12:44

Date Received: 09/19/19 09:00

## Lab Sample ID: 180-95962-4

Matrix: Surface Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39		1.0	0.71	mg/L			09/24/19 04:04	1
Fluoride	0.21		0.20	0.026	mg/L			09/24/19 04:04	1
Sulfate	1.8		1.0	0.38	mg/L			09/24/19 04:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0010		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:06	1
Barium	0.044		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:06	1
Beryllium	0.00038	J B	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:06	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:06	1
Cobalt	0.16	B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:06	1
Chromium	0.0016	J	0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:06	1
Lead	0.00037	J	0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:06	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:06	1
Calcium	7.5		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:36	1
Boron	0.064	J	0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:36	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:06	1
Nickel	0.0054		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:06	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:06	1
Vanadium	0.0018		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:06	1
Zinc	0.0064	B	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:06	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		10/07/19 07:15	10/08/19 11:38	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		10	10	mg/L			09/24/19 11:55	1

## Client Sample ID: SWC-5

Date Collected: 09/17/19 11:30

Date Received: 09/19/19 09:00

## Lab Sample ID: 180-95962-5

Matrix: Surface Water

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		1.0	0.71	mg/L			09/24/19 04:19	1

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# Client Sample Results

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

Job ID: 180-95962-1  
SDG: Surface Water

**Client Sample ID: SWC-5**

**Lab Sample ID: 180-95962-5**

Date Collected: 09/17/19 11:30

Matrix: Surface Water

Date Received: 09/19/19 09:00

### Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.076	J	0.20	0.026	mg/L			09/24/19 04:19	1
Sulfate	11		1.0	0.38	mg/L			09/24/19 04:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:09	1
Barium	0.083		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:09	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:09	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:09	1
Cobalt	0.010	B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:09	1
Lead	0.00035	J	0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:09	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:09	1
Calcium	14		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:40	1
Boron	0.18		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:40	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:09	1
Nickel	0.0049		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:09	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:09	1
Vanadium	0.0012		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:09	1
Zinc	0.011	B	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:09	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		10/07/19 07:15	10/08/19 11:39	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/24/19 12:03	1

**Client Sample ID: SWC-7**

**Lab Sample ID: 180-95962-6**

Date Collected: 09/17/19 12:25

Matrix: Surface Water

Date Received: 09/19/19 09:00

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		1.0	0.71	mg/L			09/24/19 05:05	1
Fluoride	0.097	J	0.20	0.026	mg/L			09/24/19 05:05	1
Sulfate	11		1.0	0.38	mg/L			09/24/19 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00085	J	0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:12	1
Barium	0.026		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:12	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:12	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:12	1
Cobalt	0.00024	J B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:12	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:12	1

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# Client Sample Results

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

Job ID: 180-95962-1  
 SDG: Surface Water

**Client Sample ID: SWC-7**  
**Date Collected: 09/17/19 12:25**  
**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95962-6**  
**Matrix: Surface Water**

**Method: EPA 6020 - 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		09/25/19 12:40	10/18/19 21:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:12	1
<b>Calcium</b>	<b>12</b>		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:43	1
<b>Boron</b>	<b>0.35</b>		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:43	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:12	1
<b>Nickel</b>	<b>0.00039</b>	<b>J</b>	0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:12	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:12	1
<b>Zinc</b>	<b>0.0042</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:12	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		10/07/19 07:15	10/08/19 11:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>89</b>		10	10	mg/L			09/24/19 12:03	1

# QC Sample Results

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

Job ID: 180-95962-1  
SDG: Surface Water

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-292226/45**  
**Matrix: Water**  
**Analysis Batch: 292226**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/23/19 21:34	1
Fluoride	<0.026		0.20	0.026	mg/L			09/23/19 21:34	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 21:34	1

**Lab Sample ID: LCS 180-292226/44**  
**Matrix: Water**  
**Analysis Batch: 292226**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.7		mg/L		95	90 - 110
Fluoride	1.25	1.24		mg/L		99	90 - 110
Sulfate	25.0	23.5		mg/L		94	90 - 110

**Lab Sample ID: 180-95962-1 MS**  
**Matrix: Water**  
**Analysis Batch: 292226**

**Client Sample ID: SWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.8		25.0	28.6		mg/L		103	80 - 120
Fluoride	0.089	J	1.25	1.46		mg/L		109	80 - 120
Sulfate	2.1		25.0	28.2		mg/L		104	80 - 120

**Lab Sample ID: 180-95962-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 292226**

**Client Sample ID: SWA-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	2.8		25.0	27.1		mg/L		98	80 - 120	5	20
Fluoride	0.089	J	1.25	1.37		mg/L		103	80 - 120	6	20
Sulfate	2.1		25.0	26.2		mg/L		96	80 - 120	7	20

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-292631/1-A**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 20:32	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 20:32	1
Beryllium	0.000219	J	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:32	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:32	1
Cobalt	0.000111	J	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 20:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 20:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 20:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 20:32	1
Thallium	0.000161	J	0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 20:32	1
Calcium	<0.13		0.50	0.13	mg/L		09/25/19 12:40	10/18/19 20:32	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:40	10/18/19 20:32	1

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# QC Sample Results

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

Job ID: 180-95962-1  
SDG: Surface Water

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

**Lab Sample ID: MB 180-292631/1-A**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 20:32	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 20:32	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:32	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 20:32	1
Zinc	0.00364	J	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 20:32	1

**Lab Sample ID: LCS 180-292631/2-A**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.951		mg/L		95	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.547		mg/L		109	80 - 120
Cadmium	0.500	0.553		mg/L		111	80 - 120
Cobalt	0.500	0.556		mg/L		111	80 - 120
Chromium	0.500	0.523		mg/L		105	80 - 120
Lead	0.500	0.522		mg/L		104	80 - 120
Antimony	0.250	0.282		mg/L		113	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120
Calcium	25.0	25.9		mg/L		104	80 - 120
Boron	1.25	1.25		mg/L		100	80 - 120
Copper	0.500	0.550		mg/L		110	80 - 120
Nickel	0.500	0.487		mg/L		97	80 - 120
Silver	0.250	0.256		mg/L		102	80 - 120
Vanadium	0.500	0.519		mg/L		104	80 - 120
Zinc	0.250	0.265		mg/L		106	80 - 120

**Lab Sample ID: 180-95962-1 MS**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: SWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00034	J	1.00	0.946		mg/L		95	75 - 125
Barium	0.017		1.00	1.07		mg/L		105	75 - 125
Beryllium	0.00023	J B	0.500	0.534		mg/L		107	75 - 125
Cadmium	<0.00013		0.500	0.555		mg/L		111	75 - 125
Cobalt	0.00021	J B	0.500	0.558		mg/L		112	75 - 125
Chromium	<0.0015		0.500	0.526		mg/L		105	75 - 125
Lead	0.00017	J	0.500	0.527		mg/L		105	75 - 125
Antimony	<0.00038		0.250	0.283		mg/L		113	75 - 125
Selenium	<0.0015		1.00	1.07		mg/L		107	75 - 125
Thallium	<0.00015		1.00	1.09		mg/L		109	75 - 125
Copper	<0.00063		0.500	0.544		mg/L		109	75 - 125
Nickel	<0.00034		0.500	0.482		mg/L		96	75 - 125
Silver	<0.00018		0.250	0.256		mg/L		102	75 - 125
Vanadium	0.0010		0.500	0.523		mg/L		104	75 - 125
Zinc	0.0045	J B	0.250	0.267		mg/L		105	75 - 125

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# QC Sample Results

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

Job ID: 180-95962-1  
SDG: Surface Water

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

**Lab Sample ID: 180-95962-1 MS**  
**Matrix: Water**  
**Analysis Batch: 295479**

**Client Sample ID: SWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	4.0		25.0	31.3		mg/L		109	75 - 125
Boron	0.040	J	1.25	1.37		mg/L		106	75 - 125

**Lab Sample ID: 180-95962-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: SWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.00034	J	1.00	0.975		mg/L		97	75 - 125	3	20
Barium	0.017		1.00	1.08		mg/L		106	75 - 125	1	20
Beryllium	0.00023	J B	0.500	0.551		mg/L		110	75 - 125	3	20
Cadmium	<0.00013		0.500	0.564		mg/L		113	75 - 125	2	20
Cobalt	0.00021	J B	0.500	0.561		mg/L		112	75 - 125	1	20
Chromium	<0.0015		0.500	0.532		mg/L		106	75 - 125	1	20
Lead	0.00017	J	0.500	0.541		mg/L		108	75 - 125	3	20
Antimony	<0.00038		0.250	0.287		mg/L		115	75 - 125	1	20
Selenium	<0.0015		1.00	1.10		mg/L		110	75 - 125	2	20
Thallium	<0.00015		1.00	1.10		mg/L		110	75 - 125	1	20
Copper	<0.00063		0.500	0.560		mg/L		112	75 - 125	3	20
Nickel	<0.00034		0.500	0.496		mg/L		99	75 - 125	3	20
Silver	<0.00018		0.250	0.263		mg/L		105	75 - 125	3	20
Vanadium	0.0010		0.500	0.525		mg/L		105	75 - 125	0	20
Zinc	0.0045	J B	0.250	0.276		mg/L		108	75 - 125	3	20

**Lab Sample ID: 180-95962-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 295479**

**Client Sample ID: SWA-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	4.0		25.0	31.6		mg/L		111	75 - 125	1	20
Boron	0.040	J	1.25	1.38		mg/L		107	75 - 125	1	20

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-293941/1-A**  
**Matrix: Water**  
**Analysis Batch: 294165**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:15	10/08/19 11:14	1

**Lab Sample ID: LCS 180-293941/2-A**  
**Matrix: Water**  
**Analysis Batch: 294165**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 293941**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00255		mg/L		102	80 - 120

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# QC Sample Results

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

Job ID: 180-95962-1  
 SDG: Surface Water

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-292409/2**  
**Matrix: Water**  
**Analysis Batch: 292409**

**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			09/24/19 11:55	1

**Lab Sample ID: LCS 180-292409/1**  
**Matrix: Water**  
**Analysis Batch: 292409**

**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	633	610		mg/L		96	80 - 120

**Lab Sample ID: MB 180-292416/2**  
**Matrix: Water**  
**Analysis Batch: 292416**

**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			09/24/19 12:03	1

**Lab Sample ID: LCS 180-292416/1**  
**Matrix: Water**  
**Analysis Batch: 292416**

**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	633	614		mg/L		97	80 - 120

# QC Association Summary

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

Job ID: 180-95962-1  
SDG: Surface Water

## HPLC/IC

### Analysis Batch: 292226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-1	SWA-1	Total/NA	Water	300.0	
180-95962-2	SWA-6	Total/NA	Water	300.0	
180-95962-3	SWC-2	Total/NA	Surface Water	300.0	
180-95962-4	SWC-3	Total/NA	Surface Water	300.0	
180-95962-5	SWC-5	Total/NA	Surface Water	300.0	
180-95962-6	SWC-7	Total/NA	Surface Water	300.0	
MB 180-292226/45	Method Blank	Total/NA	Water	300.0	
LCS 180-292226/44	Lab Control Sample	Total/NA	Water	300.0	
180-95962-1 MS	SWA-1	Total/NA	Water	300.0	
180-95962-1 MSD	SWA-1	Total/NA	Water	300.0	

## Metals

### Prep Batch: 292631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-1	SWA-1	Total Recoverable	Water	3005A	
180-95962-2	SWA-6	Total Recoverable	Water	3005A	
180-95962-3	SWC-2	Total Recoverable	Surface Water	3005A	
180-95962-4	SWC-3	Total Recoverable	Surface Water	3005A	
180-95962-5	SWC-5	Total Recoverable	Surface Water	3005A	
180-95962-6	SWC-7	Total Recoverable	Surface Water	3005A	
MB 180-292631/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292631/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-95962-1 MS	SWA-1	Total Recoverable	Water	3005A	
180-95962-1 MSD	SWA-1	Total Recoverable	Water	3005A	

### Prep Batch: 293941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-1	SWA-1	Total/NA	Water	7470A	
180-95962-2	SWA-6	Total/NA	Water	7470A	
180-95962-3	SWC-2	Total/NA	Surface Water	7470A	
180-95962-4	SWC-3	Total/NA	Surface Water	7470A	
180-95962-5	SWC-5	Total/NA	Surface Water	7470A	
180-95962-6	SWC-7	Total/NA	Surface Water	7470A	
MB 180-293941/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293941/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-1	SWA-1	Total/NA	Water	EPA 7470A	293941
180-95962-2	SWA-6	Total/NA	Water	EPA 7470A	293941
180-95962-3	SWC-2	Total/NA	Surface Water	EPA 7470A	293941
180-95962-4	SWC-3	Total/NA	Surface Water	EPA 7470A	293941
180-95962-5	SWC-5	Total/NA	Surface Water	EPA 7470A	293941
180-95962-6	SWC-7	Total/NA	Surface Water	EPA 7470A	293941
MB 180-293941/1-A	Method Blank	Total/NA	Water	EPA 7470A	293941
LCS 180-293941/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293941

### Analysis Batch: 295459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-1	SWA-1	Total Recoverable	Water	EPA 6020	292631

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# QC Association Summary

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

Job ID: 180-95962-1  
SDG: Surface Water

## Metals (Continued)

### Analysis Batch: 295459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-2	SWA-6	Total Recoverable	Water	EPA 6020	292631
180-95962-3	SWC-2	Total Recoverable	Surface Water	EPA 6020	292631
180-95962-4	SWC-3	Total Recoverable	Surface Water	EPA 6020	292631
180-95962-5	SWC-5	Total Recoverable	Surface Water	EPA 6020	292631
180-95962-6	SWC-7	Total Recoverable	Surface Water	EPA 6020	292631
MB 180-292631/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292631
LCS 180-292631/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292631
180-95962-1 MS	SWA-1	Total Recoverable	Water	EPA 6020	292631
180-95962-1 MSD	SWA-1	Total Recoverable	Water	EPA 6020	292631

### Analysis Batch: 295479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-1	SWA-1	Total Recoverable	Water	EPA 6020	292631
180-95962-2	SWA-6	Total Recoverable	Water	EPA 6020	292631
180-95962-3	SWC-2	Total Recoverable	Surface Water	EPA 6020	292631
180-95962-4	SWC-3	Total Recoverable	Surface Water	EPA 6020	292631
180-95962-5	SWC-5	Total Recoverable	Surface Water	EPA 6020	292631
180-95962-6	SWC-7	Total Recoverable	Surface Water	EPA 6020	292631
180-95962-1 MS	SWA-1	Total Recoverable	Water	EPA 6020	292631
180-95962-1 MSD	SWA-1	Total Recoverable	Water	EPA 6020	292631

## General Chemistry

### Analysis Batch: 292409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-1	SWA-1	Total/NA	Water	SM 2540C	
180-95962-2	SWA-6	Total/NA	Water	SM 2540C	
180-95962-3	SWC-2	Total/NA	Surface Water	SM 2540C	
180-95962-4	SWC-3	Total/NA	Surface Water	SM 2540C	
MB 180-292409/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292409/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 292416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95962-5	SWC-5	Total/NA	Surface Water	SM 2540C	
180-95962-6	SWC-7	Total/NA	Surface Water	SM 2540C	
MB 180-292416/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292416/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Chain of Custody Record

3355 McLemore Drive  
Pensacola, FL 32514  
Phone (850) 474-1001 Fax (850) 478-2671

<b>Client Information</b> Client Contact: Joju Abraham Southern Company Address: PO BOX 2641 GSC8 Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Surface Water Site: Georgia		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com	
Sampler: <u>H. Auld</u> Phone: <u>770-594-5998</u>		Carmer Tracking No(s): COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: <u>SCS10347656</u> WO #: Project #: <u>18019922</u> SSOW#:		Analysis Requested	
Sample Identification SWA-1 SWA-6 SWL-2 SWL-3 SWL-5 SWL-7		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 Cr, Ti, SO <sub>4</sub> & TDS (EPA 300.0 & SM 2540C)	
Sample Date 9-17-19 9-17-19 9-17-19 9-17-19 9-17-19 9-17-19		Sample Time 1330 1145 1305 1244 1130 1225	
Sample Type (C=comp, G=grab) G G G G G G		Preservation Code: Water Water Water Water Water Water Water Water Water Water Water Water Water	
Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	
Special Instructions/Note: APP III PLUS STATE METALS LIST		Special Instructions/Note: APP III PLUS STATE METALS LIST	
Total Number of Containers 2 2 2 2 2 2		Total Number of Containers 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 - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate 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 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 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: <u>H. Auld</u> Date/Time: <u>9-18-19/1502</u> Relinquished by: <u>CC</u> Date/Time: <u>9-18-19/1503</u> Relinquished by:		Received by: <u>CC</u> Date/Time: <u>9-18-17/1503</u> Received by: <u>Debbie Watson</u> Date/Time: <u>9-19-19</u> Received by: <u>9.18</u> 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: 180-95962-1  
SDG Number: Surface Water

**Login Number: 95962**  
**List Number: 1**  
**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 180-95963-1  
Laboratory Sample Delivery Group: Effluent  
Client Project/Site: CCR - Plant Wansley

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

Attn: Joju Abraham



Authorized for release by:  
10/28/2019 10:13:23 AM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

Job ID: 180-95963-1  
SDG: Effluent

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**Job ID: 180-95963-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-95963-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/19/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2° C, 1.6° C and 3.8° C.

**Metals**

Method 7470A: The following samples were diluted to bring the concentration of mercury to within the instrument's calibration range: EFFLUENT UNIT 1 (180-95963-1) and EFFLUENT UNIT 2 (180-95963-2). Elevated reporting limits (RLs) are provided.

Method 7470A: Samples EFFLUENT UNIT 1 (180-95963-1) and EFFLUENT UNIT 2 (180-95963-2) were prepped and digested at a 10X dilution (5ml to 50ml) due to sample matrix.

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

Job ID: 180-95963-1  
SDG: Effluent

## Qualifiers

### Metals

Qualifier	Qualifier Description
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.

## 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

Job ID: 180-95963-1  
 SDG: Effluent

## 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	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
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	01-31-20
Wisconsin	State	998027800	08-31-20



# Sample Summary

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

Job ID: 180-95963-1  
SDG: Effluent

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95963-1	EFFLUENT UNIT 1	Effluent	09/17/19 14:13	09/19/19 09:00	
180-95963-2	EFFLUENT UNIT 2	Effluent	09/17/19 14:20	09/19/19 09:00	

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# Method Summary

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

Job ID: 180-95963-1  
SDG: Effluent

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

Job ID: 180-95963-1  
 SDG: Effluent

## Client Sample ID: EFFLUENT UNIT 1

**Lab Sample ID: 180-95963-1**

Date Collected: 09/17/19 14:13

Matrix: Effluent

Date Received: 09/19/19 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	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:16	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			5 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		2			294165	10/08/19 14:25	RJR	TAL PIT
Instrument ID: HGY										

## Client Sample ID: EFFLUENT UNIT 2

**Lab Sample ID: 180-95963-2**

Date Collected: 09/17/19 14:20

Matrix: Effluent

Date Received: 09/19/19 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	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:19	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			5 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		5			294165	10/08/19 14:27	RJR	TAL PIT
Instrument ID: HGY										

**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

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

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

Job ID: 180-95963-1  
SDG: Effluent

## Client Sample ID: EFFLUENT UNIT 1

## Lab Sample ID: 180-95963-1

Date Collected: 09/17/19 14:13

Matrix: Effluent

Date Received: 09/19/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00046	J	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:16	1
Arsenic	0.090		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:16	1
Barium	0.52		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:16	1
Beryllium	0.0057	B	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:16	1
Cadmium	0.0055		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:16	1
Cobalt	0.019	B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:16	1
Chromium	0.14		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:16	1
Copper	0.089		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:16	1
Nickel	0.13		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:16	1
Lead	0.093		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:16	1
Antimony	0.0088		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:16	1
Selenium	0.44		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:16	1
Thallium	0.0065	B	0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:16	1
Vanadium	0.083		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:16	1
Zinc	0.26	B	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:16	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.0040	0.0020	mg/L		10/07/19 07:15	10/08/19 14:25	2

## Client Sample ID: EFFLUENT UNIT 2

## Lab Sample ID: 180-95963-2

Date Collected: 09/17/19 14:20

Matrix: Effluent

Date Received: 09/19/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00047	J	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:19	1
Arsenic	0.054		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:19	1
Barium	0.59		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:19	1
Beryllium	0.0048	B	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:19	1
Cadmium	0.0060		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:19	1
Cobalt	0.025	B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:19	1
Chromium	0.17		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:19	1
Copper	0.15		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:19	1
Nickel	0.16		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:19	1
Lead	0.067		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:19	1
Antimony	0.0062		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:19	1
Selenium	0.54		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:19	1
Thallium	0.0033	B	0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:19	1
Vanadium	0.055		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:19	1
Zinc	0.23	B	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:19	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.010	0.0051	mg/L		10/07/19 07:15	10/08/19 14:27	5

# QC Sample Results

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

Job ID: 180-95963-1  
SDG: Effluent

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-292631/1-A**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:32	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 20:32	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 20:32	1
Beryllium	0.000219	J	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:32	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:32	1
Cobalt	0.000111	J	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 20:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 20:32	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 20:32	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 20:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 20:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 20:32	1
Thallium	0.000161	J	0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 20:32	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 20:32	1
Zinc	0.00364	J	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 20:32	1

**Lab Sample ID: LCS 180-292631/2-A**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.250	0.256		mg/L		102	80 - 120
Arsenic	1.00	0.951		mg/L		95	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.547		mg/L		109	80 - 120
Cadmium	0.500	0.553		mg/L		111	80 - 120
Cobalt	0.500	0.556		mg/L		111	80 - 120
Chromium	0.500	0.523		mg/L		105	80 - 120
Copper	0.500	0.550		mg/L		110	80 - 120
Nickel	0.500	0.487		mg/L		97	80 - 120
Lead	0.500	0.522		mg/L		104	80 - 120
Antimony	0.250	0.282		mg/L		113	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120
Vanadium	0.500	0.519		mg/L		104	80 - 120
Zinc	0.250	0.265		mg/L		106	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-293941/1-A**  
**Matrix: Water**  
**Analysis Batch: 294165**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:15	10/08/19 11:14	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

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

Job ID: 180-95963-1  
SDG: Effluent

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-293941/2-A  
Matrix: Water  
Analysis Batch: 294165

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 293941  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00255		mg/L		102	80 - 120

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# QC Association Summary

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

Job ID: 180-95963-1  
SDG: Effluent

## Metals

### Prep Batch: 292631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95963-1	EFFLUENT UNIT 1	Total Recoverable	Effluent	3005A	
180-95963-2	EFFLUENT UNIT 2	Total Recoverable	Effluent	3005A	
MB 180-292631/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292631/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 293941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95963-1	EFFLUENT UNIT 1	Total/NA	Effluent	7470A	
180-95963-2	EFFLUENT UNIT 2	Total/NA	Effluent	7470A	
MB 180-293941/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293941/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95963-1	EFFLUENT UNIT 1	Total/NA	Effluent	EPA 7470A	293941
180-95963-2	EFFLUENT UNIT 2	Total/NA	Effluent	EPA 7470A	293941
MB 180-293941/1-A	Method Blank	Total/NA	Water	EPA 7470A	293941
LCS 180-293941/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293941

### Analysis Batch: 295459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95963-1	EFFLUENT UNIT 1	Total Recoverable	Effluent	EPA 6020	292631
180-95963-2	EFFLUENT UNIT 2	Total Recoverable	Effluent	EPA 6020	292631
MB 180-292631/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292631
LCS 180-292631/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292631

<b>Client Information</b>		Sampler: <u>H. Auld</u>	Lab PM: <u>Bortot, Veronica</u>	Carrier Tracking No(s):		COC No: <u>180-54035-10400.1</u>	
Client Contact: <u>Mr. Evan Perry</u>		Phone: <u>770-594-5998</u>	E-Mail: <u>veronica.bortot@testamericainc.com</u>	Page: <u>Page 1 of 1</u>		Job #:	
Company: <u>Atlantic Coast Consulting, Inc.</u>		Analysis Requested					
Address: <u>1150 Northmeadow Parkway Suite 100</u>		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:					
City: <u>Roswell</u>		Total Number of Containers: <u>1</u>					
State, Zip: <u>GA, 30076</u>		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 Z - other (specify)					
Phone: _____		Other: _____					
Email: <u>eperry@atcc.net</u>		Field Filtered Sample (Yes or No): <u>6020, 7470A</u>					
Project Name: <u>CCR - Plant Wansley Effluent</u>		Matrix (W=water, S=solid, O=soil, A=air)					
Site: <u>Georgia</u>		Sample Date					
		Sample Time		Sample Type (C=Comp, G=grab)		Preservation Code	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
<u>Effluent Unit 1</u>		<u>9-17-19</u>		<u>1413</u>		<u>G</u>	
<u>Effluent Unit 2</u>		<u>9-17-19</u>		<u>1420</u>		<u>G</u>	
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)		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: <u>H. Auld</u>		<u>9-18-19/1502</u>		<u>9:18-19 1502</u>		Received by: <u>[Signature]</u> Company: <u>ACC</u>	
Relinquished by: <u>E-C</u>		<u>9-18-19 1503</u>		<u>9-19-19</u>		Received by: <u>[Signature]</u> Company: <u>T-A Pitt</u>	
Relinquished by:		Date/Time:		Date/Time:		Received by:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Date/Time: <u>9:00</u> Company:	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95963-1

SDG Number: Effluent

**Login Number: 95963**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 180-95964-1  
Laboratory Sample Delivery Group: Landfill  
Client Project/Site: CCR - Plant Wansley

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

Attn: Joju Abraham



Authorized for release by:  
10/28/2019 11:03:46 AM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

Job ID: 180-95964-1  
SDG: Landfill

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**Job ID: 180-95964-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative  
180-95964-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/19/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2° C, 1.6° C and 3.8° 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

Job ID: 180-95964-1  
SDG: Landfill

## 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.

### Metals

Qualifier	Qualifier Description
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.

## 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

Job ID: 180-95964-1  
 SDG: Landfill

## 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	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
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	01-31-20
Wisconsin	State	998027800	08-31-20





# Sample Summary

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

Job ID: 180-95964-1  
SDG: Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95964-1	GWC-9	Ground Water	09/16/19 13:25	09/19/19 09:00	
180-95964-2	GWC-11	Ground Water	09/16/19 14:30	09/19/19 09:00	
180-95964-3	GWC-10	Ground Water	09/17/19 10:10	09/19/19 09:00	
180-95964-4	GWC-15	Ground Water	09/17/19 11:02	09/19/19 09:00	
180-95964-5	EB-4-9-16-19	Water	09/16/19 12:05	09/19/19 09:00	
180-95964-6	DUP-4	Water	09/16/19 00:00	09/19/19 09:00	
180-95964-7	FB-4-9-17-19	Water	09/17/19 10:40	09/19/19 09:00	

# Method Summary

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

Job ID: 180-95964-1  
SDG: Landfill

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

#### Protocol References:

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

Job ID: 180-95964-1  
SDG: Landfill

**Client Sample ID: GWC-9**

**Date Collected: 09/16/19 13:25**

**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95964-1**

**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			292284	09/23/19 18:41	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:29	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:47	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:27	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292191	09/21/19 11:57	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-11**

**Date Collected: 09/16/19 14:30**

**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95964-2**

**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			292284	09/23/19 19:11	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:32	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:50	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:28	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292191	09/21/19 11:57	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-10**

**Date Collected: 09/17/19 10:10**

**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95964-3**

**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			292284	09/23/19 16:42	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:36	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 17:53	WTR	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

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

Job ID: 180-95964-1  
SDG: Landfill

## Client Sample ID: GWC-10

Date Collected: 09/17/19 10:10

Date Received: 09/19/19 09:00

## Lab Sample ID: 180-95964-3

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	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:29	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: GWC-15

Date Collected: 09/17/19 11:02

Date Received: 09/19/19 09:00

## Lab Sample ID: 180-95964-4

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			292284	09/23/19 17:27	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:39	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 18:03	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:30	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: EB-4-9-16-19

Date Collected: 09/16/19 12:05

Date Received: 09/19/19 09:00

## Lab Sample ID: 180-95964-5

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			292284	09/23/19 17:42	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:42	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 18:07	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:31	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292191	09/21/19 11:57	AVS	TAL PIT
		Instrument ID: NOEQUIP								

# Lab Chronicle

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

Job ID: 180-95964-1  
SDG: Landfill

**Client Sample ID: DUP-4**

**Lab Sample ID: 180-95964-6**

**Date Collected: 09/16/19 00:00**

**Matrix: Water**

**Date Received: 09/19/19 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	300.0		1			292284	09/23/19 19:41	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:46	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 18:10	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:25	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292191	09/21/19 11:57	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-4-9-17-19**

**Lab Sample ID: 180-95964-7**

**Date Collected: 09/17/19 10:40**

**Matrix: Water**

**Date Received: 09/19/19 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	300.0		1			292284	09/23/19 18:26	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 21:49	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292631	09/25/19 12:40	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295479	10/19/19 18:13	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293941	10/07/19 07:15	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 11:26	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	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

CMR = Carl Reagle

RJR = Ron Rosenbaum

RSK = Robert Kurtz

WTR = Bill Reinheimer

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-95964-1**

Date Collected: 09/16/19 13:25

Matrix: Ground Water

Date Received: 09/19/19 09:00

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		1.0	0.71	mg/L			09/23/19 18:41	1
Fluoride	0.062	J	0.20	0.026	mg/L			09/23/19 18:41	1
Sulfate	16		1.0	0.38	mg/L			09/23/19 18:41	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		09/25/19 12:40	10/18/19 21:29	1
Arsenic	0.00069	J	0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:29	1
Barium	0.18		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:29	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:29	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:29	1
Cobalt	0.042	B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:29	1
Chromium	0.0027		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:29	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:29	1
Nickel	0.0091		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:29	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:29	1
Vanadium	0.0014		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:29	1
Zinc	0.0049	J B	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:29	1
Calcium	19		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:47	1
Boron	0.19		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:47	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		10/07/19 07:15	10/08/19 11:27	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			09/21/19 11:57	1

**Client Sample ID: GWC-11**

**Lab Sample ID: 180-95964-2**

Date Collected: 09/16/19 14:30

Matrix: Ground Water

Date Received: 09/19/19 09:00

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.71	mg/L			09/23/19 19:11	1
Fluoride	0.12	J	0.20	0.026	mg/L			09/23/19 19:11	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 19:11	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		09/25/19 12:40	10/18/19 21:32	1
Arsenic	0.0018		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:32	1
Barium	0.35		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:32	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:32	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:32	1
Cobalt	0.0034	B	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:32	1
Chromium	0.0035		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:32	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

**Client Sample ID: GWC-11**

**Lab Sample ID: 180-95964-2**

Date Collected: 09/16/19 14:30

Matrix: Ground Water

Date Received: 09/19/19 09:00

**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		09/25/19 12:40	10/18/19 21:32	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:32	1
<b>Vanadium</b>	<b>0.0035</b>		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:32	1
<b>Zinc</b>	<b>0.0050</b>	<b>B</b>	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:32	1
<b>Calcium</b>	<b>14</b>		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:50	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:50	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		10/07/19 07:15	10/08/19 11:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>190</b>		10	10	mg/L			09/21/19 11:57	1

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-95964-3**

Date Collected: 09/17/19 10:10

Matrix: Ground Water

Date Received: 09/19/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.6</b>		1.0	0.71	mg/L			09/23/19 16:42	1
<b>Fluoride</b>	<b>0.29</b>		0.20	0.026	mg/L			09/23/19 16:42	1
<b>Sulfate</b>	<b>12</b>		1.0	0.38	mg/L			09/23/19 16:42	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		09/25/19 12:40	10/18/19 21:36	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:36	1
<b>Barium</b>	<b>0.026</b>		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:36	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:36	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:36	1
<b>Cobalt</b>	<b>0.0060</b>	<b>B</b>	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:36	1
<b>Copper</b>	<b>0.00070</b>	<b>J</b>	0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:36	1
<b>Nickel</b>	<b>0.0013</b>		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:36	1
<b>Lead</b>	<b>0.00014</b>	<b>J</b>	0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:36	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:36	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:36	1
<b>Zinc</b>	<b>0.013</b>	<b>B</b>	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:36	1
<b>Calcium</b>	<b>7.2</b>		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 17:53	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 17:53	1

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# Client Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-95964-3**

Date Collected: 09/17/19 10:10

Matrix: Ground Water

Date Received: 09/19/19 09:00

**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		10/07/19 07:15	10/08/19 11:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			09/24/19 12:03	1

**Client Sample ID: GWC-15**

**Lab Sample ID: 180-95964-4**

Date Collected: 09/17/19 11:02

Matrix: Ground Water

Date Received: 09/19/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.71	mg/L			09/23/19 17:27	1
Fluoride	0.071	J	0.20	0.026	mg/L			09/23/19 17:27	1
Sulfate	1.4		1.0	0.38	mg/L			09/23/19 17:27	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		09/25/19 12:40	10/18/19 21:39	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:39	1
Barium	0.0072	J	0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:39	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:39	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:39	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:39	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:39	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:39	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:39	1
Vanadium	0.0013		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:39	1
Zinc	0.0041	J B	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:39	1
Calcium	7.7		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 18:03	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 18:03	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		10/07/19 07:15	10/08/19 11:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	75		10	10	mg/L			09/24/19 12:03	1

**Client Sample ID: EB-4-9-16-19**

**Lab Sample ID: 180-95964-5**

Date Collected: 09/16/19 12:05

Matrix: Water

Date Received: 09/19/19 09:00

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/23/19 17:42	1

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# Client Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

**Client Sample ID: EB-4-9-16-19**

**Lab Sample ID: 180-95964-5**

Date Collected: 09/16/19 12:05

Matrix: Water

Date Received: 09/19/19 09:00

### Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			09/23/19 17:42	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 17:42	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		09/25/19 12:40	10/18/19 21:42	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:42	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:42	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:42	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:42	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:42	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:42	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:42	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:42	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:42	1
Zinc	<b>0.021</b>	<b>B</b>	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:42	1
Calcium	<b>0.26</b>	<b>J</b>	0.50	0.13	mg/L		09/25/19 12:40	10/19/19 18:07	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 18:07	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		10/07/19 07:15	10/08/19 11:31	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/21/19 11:57	1

**Client Sample ID: DUP-4**

**Lab Sample ID: 180-95964-6**

Date Collected: 09/16/19 00:00

Matrix: Water

Date Received: 09/19/19 09:00

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<b>28</b>		1.0	0.71	mg/L			09/23/19 19:41	1
Fluoride	<b>0.058</b>	<b>J</b>	0.20	0.026	mg/L			09/23/19 19:41	1
Sulfate	<b>15</b>		1.0	0.38	mg/L			09/23/19 19:41	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		09/25/19 12:40	10/18/19 21:46	1
Arsenic	<b>0.00065</b>	<b>J</b>	0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:46	1
Barium	<b>0.17</b>		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:46	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:46	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:46	1
Cobalt	<b>0.044</b>	<b>B</b>	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:46	1
Chromium	<b>0.0024</b>		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:46	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:46	1

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# Client Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

**Client Sample ID: DUP-4**  
**Date Collected: 09/16/19 00:00**  
**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95964-6**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Nickel</b>	<b>0.0093</b>		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:46	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:46	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:46	1
<b>Vanadium</b>	<b>0.0011</b>		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:46	1
<b>Zinc</b>	<b>0.0043</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:46	1
<b>Calcium</b>	<b>19</b>		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 18:10	1
<b>Boron</b>	<b>0.19</b>		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 18:10	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		10/07/19 07:15	10/08/19 11:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>210</b>		10	10	mg/L			09/21/19 11:57	1

**Client Sample ID: FB-4-9-17-19**

**Date Collected: 09/17/19 10:40**  
**Date Received: 09/19/19 09:00**

**Lab Sample ID: 180-95964-7**  
**Matrix: Water**

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/23/19 18:26	1
Fluoride	<0.026		0.20	0.026	mg/L			09/23/19 18:26	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 18:26	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		09/25/19 12:40	10/18/19 21:49	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 21:49	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 21:49	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 21:49	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:49	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 21:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 21:49	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 21:49	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 21:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 21:49	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 21:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 21:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 21:49	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 21:49	1
<b>Zinc</b>	<b>0.0099</b>	<b>B</b>	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 21:49	1
Calcium	<0.13		0.50	0.13	mg/L		09/25/19 12:40	10/19/19 18:13	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:40	10/19/19 18:13	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		10/07/19 07:15	10/08/19 11:26	1

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# Client Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

**Client Sample ID: FB-4-9-17-19**

**Lab Sample ID: 180-95964-7**

**Date Collected: 09/17/19 10:40**

**Matrix: Water**

**Date Received: 09/19/19 09:00**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/24/19 12:03	1

1

2

3

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5

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11

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13

# QC Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-292284/6**  
**Matrix: Water**  
**Analysis Batch: 292284**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/23/19 12:28	1
Fluoride	<0.026		0.20	0.026	mg/L			09/23/19 12:28	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 12:28	1

**Lab Sample ID: LCS 180-292284/5**  
**Matrix: Water**  
**Analysis Batch: 292284**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.3		mg/L		101	90 - 110
Fluoride	1.25	1.22		mg/L		98	90 - 110
Sulfate	25.0	24.5		mg/L		98	90 - 110

**Lab Sample ID: 180-95964-3 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 292284**

**Client Sample ID: GWC-10**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.6		25.0	29.0		mg/L		102	80 - 120
Fluoride	0.29		1.25	1.65		mg/L		109	80 - 120
Sulfate	12		25.0	41.9		mg/L		118	80 - 120

**Lab Sample ID: 180-95964-3 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 292284**

**Client Sample ID: GWC-10**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.6		25.0	28.8		mg/L		101	80 - 120	1	20
Fluoride	0.29		1.25	1.66		mg/L		110	80 - 120	1	20
Sulfate	12		25.0	41.4		mg/L		116	80 - 120	1	20

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-292631/1-A**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:32	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:40	10/18/19 20:32	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:40	10/18/19 20:32	1
Beryllium	0.000219	J	0.0010	0.00018	mg/L		09/25/19 12:40	10/18/19 20:32	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:32	1
Cobalt	0.000111	J	0.00050	0.000075	mg/L		09/25/19 12:40	10/18/19 20:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:40	10/18/19 20:32	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 12:40	10/18/19 20:32	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 12:40	10/18/19 20:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:40	10/18/19 20:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		09/25/19 12:40	10/18/19 20:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:40	10/18/19 20:32	1

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# QC Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

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

**Lab Sample ID: MB 180-292631/1-A**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.000161	J	0.0010	0.00015	mg/L		09/25/19 12:40	10/18/19 20:32	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/25/19 12:40	10/18/19 20:32	1
Zinc	0.00364	J	0.0050	0.0032	mg/L		09/25/19 12:40	10/18/19 20:32	1
Calcium	<0.13		0.50	0.13	mg/L		09/25/19 12:40	10/18/19 20:32	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:40	10/18/19 20:32	1

**Lab Sample ID: LCS 180-292631/2-A**  
**Matrix: Water**  
**Analysis Batch: 295459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292631**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.250	0.256		mg/L		102	80 - 120
Arsenic	1.00	0.951		mg/L		95	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.547		mg/L		109	80 - 120
Cadmium	0.500	0.553		mg/L		111	80 - 120
Cobalt	0.500	0.556		mg/L		111	80 - 120
Chromium	0.500	0.523		mg/L		105	80 - 120
Copper	0.500	0.550		mg/L		110	80 - 120
Nickel	0.500	0.487		mg/L		97	80 - 120
Lead	0.500	0.522		mg/L		104	80 - 120
Antimony	0.250	0.282		mg/L		113	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120
Vanadium	0.500	0.519		mg/L		104	80 - 120
Zinc	0.250	0.265		mg/L		106	80 - 120
Calcium	25.0	25.9		mg/L		104	80 - 120
Boron	1.25	1.25		mg/L		100	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-293941/1-A**  
**Matrix: Water**  
**Analysis Batch: 294165**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:15	10/08/19 11:14	1

**Lab Sample ID: LCS 180-293941/2-A**  
**Matrix: Water**  
**Analysis Batch: 294165**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 293941**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00255		mg/L		102	80 - 120

# QC Sample Results

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

Job ID: 180-95964-1  
SDG: Landfill

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-292191/2**  
**Matrix: Water**  
**Analysis Batch: 292191**

**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			09/21/19 11:57	1

**Lab Sample ID: LCS 180-292191/1**  
**Matrix: Water**  
**Analysis Batch: 292191**

**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	633	598		mg/L		94	80 - 120

**Lab Sample ID: 180-95964-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 292191**

**Client Sample ID: GWC-9**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		192		mg/L		0	10

**Lab Sample ID: 180-95964-6 DU**  
**Matrix: Water**  
**Analysis Batch: 292191**

**Client Sample ID: DUP-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	210		204		mg/L		0.5	10

**Lab Sample ID: MB 180-292416/2**  
**Matrix: Water**  
**Analysis Batch: 292416**

**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			09/24/19 12:03	1

**Lab Sample ID: LCS 180-292416/1**  
**Matrix: Water**  
**Analysis Batch: 292416**

**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	633	614		mg/L		97	80 - 120

# QC Association Summary

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

Job ID: 180-95964-1  
SDG: Landfill

## HPLC/IC

### Analysis Batch: 292284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95964-1	GWC-9	Total/NA	Ground Water	300.0	
180-95964-2	GWC-11	Total/NA	Ground Water	300.0	
180-95964-3	GWC-10	Total/NA	Ground Water	300.0	
180-95964-4	GWC-15	Total/NA	Ground Water	300.0	
180-95964-5	EB-4-9-16-19	Total/NA	Water	300.0	
180-95964-6	DUP-4	Total/NA	Water	300.0	
180-95964-7	FB-4-9-17-19	Total/NA	Water	300.0	
MB 180-292284/6	Method Blank	Total/NA	Water	300.0	
LCS 180-292284/5	Lab Control Sample	Total/NA	Water	300.0	
180-95964-3 MS	GWC-10	Total/NA	Ground Water	300.0	
180-95964-3 MSD	GWC-10	Total/NA	Ground Water	300.0	

## Metals

### Prep Batch: 292631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95964-1	GWC-9	Total Recoverable	Ground Water	3005A	
180-95964-2	GWC-11	Total Recoverable	Ground Water	3005A	
180-95964-3	GWC-10	Total Recoverable	Ground Water	3005A	
180-95964-4	GWC-15	Total Recoverable	Ground Water	3005A	
180-95964-5	EB-4-9-16-19	Total Recoverable	Water	3005A	
180-95964-6	DUP-4	Total Recoverable	Water	3005A	
180-95964-7	FB-4-9-17-19	Total Recoverable	Water	3005A	
MB 180-292631/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292631/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 293941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95964-1	GWC-9	Total/NA	Ground Water	7470A	
180-95964-2	GWC-11	Total/NA	Ground Water	7470A	
180-95964-3	GWC-10	Total/NA	Ground Water	7470A	
180-95964-4	GWC-15	Total/NA	Ground Water	7470A	
180-95964-5	EB-4-9-16-19	Total/NA	Water	7470A	
180-95964-6	DUP-4	Total/NA	Water	7470A	
180-95964-7	FB-4-9-17-19	Total/NA	Water	7470A	
MB 180-293941/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293941/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95964-1	GWC-9	Total/NA	Ground Water	EPA 7470A	293941
180-95964-2	GWC-11	Total/NA	Ground Water	EPA 7470A	293941
180-95964-3	GWC-10	Total/NA	Ground Water	EPA 7470A	293941
180-95964-4	GWC-15	Total/NA	Ground Water	EPA 7470A	293941
180-95964-5	EB-4-9-16-19	Total/NA	Water	EPA 7470A	293941
180-95964-6	DUP-4	Total/NA	Water	EPA 7470A	293941
180-95964-7	FB-4-9-17-19	Total/NA	Water	EPA 7470A	293941
MB 180-293941/1-A	Method Blank	Total/NA	Water	EPA 7470A	293941
LCS 180-293941/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293941

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

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

Job ID: 180-95964-1  
SDG: Landfill

## Metals

### Analysis Batch: 295459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95964-1	GWC-9	Total Recoverable	Ground Water	EPA 6020	292631
180-95964-2	GWC-11	Total Recoverable	Ground Water	EPA 6020	292631
180-95964-3	GWC-10	Total Recoverable	Ground Water	EPA 6020	292631
180-95964-4	GWC-15	Total Recoverable	Ground Water	EPA 6020	292631
180-95964-5	EB-4-9-16-19	Total Recoverable	Water	EPA 6020	292631
180-95964-6	DUP-4	Total Recoverable	Water	EPA 6020	292631
180-95964-7	FB-4-9-17-19	Total Recoverable	Water	EPA 6020	292631
MB 180-292631/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292631
LCS 180-292631/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292631

### Analysis Batch: 295479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95964-1	GWC-9	Total Recoverable	Ground Water	EPA 6020	292631
180-95964-2	GWC-11	Total Recoverable	Ground Water	EPA 6020	292631
180-95964-3	GWC-10	Total Recoverable	Ground Water	EPA 6020	292631
180-95964-4	GWC-15	Total Recoverable	Ground Water	EPA 6020	292631
180-95964-5	EB-4-9-16-19	Total Recoverable	Water	EPA 6020	292631
180-95964-6	DUP-4	Total Recoverable	Water	EPA 6020	292631
180-95964-7	FB-4-9-17-19	Total Recoverable	Water	EPA 6020	292631

## General Chemistry

### Analysis Batch: 292191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95964-1	GWC-9	Total/NA	Ground Water	SM 2540C	
180-95964-2	GWC-11	Total/NA	Ground Water	SM 2540C	
180-95964-5	EB-4-9-16-19	Total/NA	Water	SM 2540C	
180-95964-6	DUP-4	Total/NA	Water	SM 2540C	
MB 180-292191/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292191/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95964-1 DU	GWC-9	Total/NA	Ground Water	SM 2540C	
180-95964-6 DU	DUP-4	Total/NA	Water	SM 2540C	

### Analysis Batch: 292416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95964-3	GWC-10	Total/NA	Ground Water	SM 2540C	
180-95964-4	GWC-15	Total/NA	Ground Water	SM 2540C	
180-95964-7	FB-4-9-17-19	Total/NA	Water	SM 2540C	
MB 180-292416/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292416/1	Lab Control Sample	Total/NA	Water	SM 2540C	



Asacota  
Pittsburgh

**Chain of Custody Record**

**Client Information**  
 Client Contact: Jojo Abraham  
 Southern Company  
 Address: PO BOX 2641 GSC8  
 Birmingham  
 State, Zip: AL, 35291  
 Phone: SCS:10347656  
 Project #: 40007709  
 Site: Georgia

**Sample Information**  
 Sampler: Hunter Auld  
 Lab PM: Bortol, Veronica  
 Phone: 770-594-5998  
 E-Mail: veronica.bortol@testamericainc.com

**Due Date Requested:**  
 TAT Requested (days):  
 PO #: SCS:10347656  
 WO #:  
 Project #: 40007709  
 SSOW#:

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		CF, T, SO <sub>4</sub> , & TDS (EPA 300.0 & SM 2540C)		Total Number of Containers	Special Instructions/Note:
					Field Filtered	MS/MSD	Field Filtered	MS/MSD	D	D	D	D		
GWC-9	9-16-19	1325	G	Water	N	N	N	N	✓	✓	✓	2	APP III PLUS STATE METALS LIST	
GWC-11	9-16-19	1430	G	Water	N	N	N	N	✓	✓	✓	2		
GWC-10	9-17-19	1010	G	Water	N	N	N	N	✓	✓	✓	2		
GWC-15	9-17-19	1102	G	Water	N	N	N	N	✓	✓	✓	2		
EB-4-9-16-19	9-16-19	1205	G	Water	N	N	N	N	✓	✓	✓	2		
Dup-4			G	Water	N	N	N	N	✓	✓	✓	2		
FB-4-9-17-19	9-17-19	1040	G	Water	N	N	N	N	✓	✓	✓	2		
				Water										
				Water										
				Water										
				Water										

**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 to)**  
 Return To Client  Disposal By Lab  Archive Ft

**Special Instructions/QC Requirements:**

**Empy Kit Relinquished by:**

Relinquished by: J. Auld  
 Date/Time: 9-18-19  
 Company: AIC

Relinquished by: J. Auld  
 Date/Time: 9-18-19/1502  
 Company: AIC

Relinquished by: J. Auld  
 Date/Time: 9-18-19 1503  
 Company: AIC

**Custody Seals Intact:**  
 Yes  No

**Custody Seal No.:**

**Received by:** J. Auld  
 Date/Time: 9-18-19  
 Company: AIC

**Received by:** J. Auld  
 Date/Time: 9-18-19-1502  
 Company: AIC

**Received by:** J. Auld  
 Date/Time: 9-19-19  
 Company: AIC

**Method of Shipment:**

**Cooler Temperature(s) °C and Other Remarks:** 900

180-95964 Chain of Custody

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95964-1

SDG Number: Landfill

**Login Number: 95964**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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, Pensacola  
3355 McLemore Drive  
Pensacola, FL 32514  
Tel: (850)474-1001

Laboratory Job ID: 400-176250-1  
Laboratory Sample Delivery Group: Landfill  
Client Project/Site: CCR - Plant Wansley  
Revision: 1

For:  
Southern Company  
PO BOX 2641 GSC8  
Birmingham, Alabama 35291

Attn: Joju Abraham



Authorized for release by:  
11/12/2019 2:47:27 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*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.*



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# Case Narrative

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

Job ID: 400-176250-1  
SDG: Landfill

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## Job ID: 400-176250-1

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### Laboratory: Eurofins TestAmerica, Pensacola

#### Narrative

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#### Job Narrative 400-176250-1

Revised: to report consistent 6020 RLs

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/12/2019 9:17 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0° C.

#### HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: GWC-7 (400-176250-6). Elevated reporting limits (RLs) are provided.

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

#### Metals

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

#### General Chemistry

Methods 160.1, SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-456797 was outside control limits. Sample non-homogeneity is suspected.

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



# Detection Summary

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

Job ID: 400-176250-1  
SDG: Landfill

## Client Sample ID: GWA-1

## Lab Sample ID: 400-176250-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.012		0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Beryllium	0.00019	J	0.0010	0.00018	mg/L	1		EPA 6020	Total Recoverable
Cobalt	0.00019	J	0.00050	0.000075	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0017	J	0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Nickel	0.00099	J	0.0010	0.00034	mg/L	1		EPA 6020	Total Recoverable
Thallium	0.00015	J	0.0010	0.00015	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.0064		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	0.80		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	16		5.0	3.4	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: GWA-2

## Lab Sample ID: 400-176250-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.90	J	1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.015		0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Cobalt	0.00029	J	0.00050	0.000075	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0019	J	0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Copper	0.0014	J	0.0020	0.00063	mg/L	1		EPA 6020	Total Recoverable
Nickel	0.0014		0.0010	0.00034	mg/L	1		EPA 6020	Total Recoverable
Lead	0.00014	J	0.0010	0.00013	mg/L	1		EPA 6020	Total Recoverable
Vanadium	0.0011		0.0010	0.00099	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.0064		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	4.2		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	52	B	5.0	3.4	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: GWA-4

## Lab Sample ID: 400-176250-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.091	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	11		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.16		0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Cobalt	0.0062		0.00050	0.000075	mg/L	1		EPA 6020	Total Recoverable
Nickel	0.0017		0.0010	0.00034	mg/L	1		EPA 6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

# Detection Summary

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

Job ID: 400-176250-1  
SDG: Landfill

## Client Sample ID: GWA-4 (Continued)

## Lab Sample ID: 400-176250-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0060		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	31		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	190	B	5.0	3.4	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: GWA-28

## Lab Sample ID: 400-176250-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	1.8		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.0022	J	0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Beryllium	0.00049	J	0.0010	0.00018	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0018	J	0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Nickel	0.00047	J	0.0010	0.00034	mg/L	1		EPA 6020	Total Recoverable
Vanadium	0.0012		0.0010	0.00099	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.010		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	2.9		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	86	B	5.0	3.4	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: GWA-29

## Lab Sample ID: 400-176250-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	2.6		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	9.2		1.0	0.70	mg/L	1		300.0	Total/NA
Mercury	0.00021		0.00020	0.000070	mg/L	1		7470A	Total/NA
Silver	0.0015		0.0010	0.00018	mg/L	1		EPA 6020	Total Recoverable
Barium	0.0033	J	0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Beryllium	0.0023		0.0010	0.00018	mg/L	1		EPA 6020	Total Recoverable
Cobalt	0.000089	J	0.00050	0.000075	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0019	J	0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Copper	0.0074		0.0020	0.00063	mg/L	1		EPA 6020	Total Recoverable
Nickel	0.0024		0.0010	0.00034	mg/L	1		EPA 6020	Total Recoverable
Lead	0.00028	J	0.0010	0.00013	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.031		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	4.8		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	120	B	5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

# Detection Summary

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

Job ID: 400-176250-1  
SDG: Landfill

## Client Sample ID: GWC-7

## Lab Sample ID: 400-176250-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.28		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	52		2.0	1.4	mg/L	2		300.0	Total/NA
Barium	0.086		0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Cobalt	0.0035		0.00050	0.000075	mg/L	1		EPA 6020	Total Recoverable
Nickel	0.0089		0.0010	0.00034	mg/L	1		EPA 6020	Total Recoverable
Vanadium	0.0024		0.0010	0.00099	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.0063		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	50		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	380	B	5.0	3.4	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: GWC-8

## Lab Sample ID: 400-176250-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.0		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.10	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	14		1.0	0.70	mg/L	1		300.0	Total/NA
Mercury	0.00040		0.00020	0.000070	mg/L	1		7470A	Total/NA
Arsenic	0.00043	J	0.0010	0.00032	mg/L	1		EPA 6020	Total Recoverable
Barium	0.066		0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Cobalt	0.041		0.00050	0.000075	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0018	J	0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Copper	0.00065	J	0.0020	0.00063	mg/L	1		EPA 6020	Total Recoverable
Nickel	0.0026		0.0010	0.00034	mg/L	1		EPA 6020	Total Recoverable
Vanadium	0.0014		0.0010	0.00099	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.0051		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	30		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	220		5.0	3.4	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: GWC-22

## Lab Sample ID: 400-176250-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.6		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.027		0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Cadmium	0.00046	J	0.0010	0.00013	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0026		0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Copper	0.0010	J	0.0020	0.00063	mg/L	1		EPA 6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola



# Detection Summary

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

Job ID: 400-176250-1  
SDG: Landfill

## Client Sample ID: GWC-22 (Continued)

## Lab Sample ID: 400-176250-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.0082		0.0010	0.00099	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.0061		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	11		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	120		5.0	3.4	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: GWC-30

## Lab Sample ID: 400-176250-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.10	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.70	mg/L	1		300.0	Total/NA
Mercury	0.00014	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Barium	0.0098	J	0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0019	J	0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Vanadium	0.0018		0.0010	0.00099	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.019		0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	4.0		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	46		5.0	3.4	mg/L	1		SM 2540C	Total/NA

## Client Sample ID: DUP-1

## Lab Sample ID: 400-176250-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	1.8		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00037	J	0.0010	0.00032	mg/L	1		EPA 6020	Total Recoverable
Barium	0.0025	J	0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Beryllium	0.00061	J	0.0010	0.00018	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0020		0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Nickel	0.00051	J	0.0010	0.00034	mg/L	1		EPA 6020	Total Recoverable
Thallium	0.00017	J	0.0010	0.00015	mg/L	1		EPA 6020	Total Recoverable
Vanadium	0.0018		0.0010	0.00099	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.0093	B	0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable
Calcium	2.8		0.50	0.13	mg/L	1		EPA 6020	Total Recoverable
Total Dissolved Solids	92		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

# Detection Summary

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: FB-1-9-10-19**

**Lab Sample ID: 400-176250-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0018	J	0.010	0.0016	mg/L	1		EPA 6020	Total Recoverable
Chromium	0.0020		0.0020	0.0015	mg/L	1		EPA 6020	Total Recoverable
Zinc	0.0032	J B	0.0050	0.0032	mg/L	1		EPA 6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

# Sample Summary

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

Job ID: 400-176250-1  
SDG: Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-176250-1	GWA-1	Water	09/09/19 14:55	09/12/19 09:17	
400-176250-2	GWA-2	Water	09/10/19 12:35	09/12/19 09:17	
400-176250-3	GWA-4	Water	09/10/19 11:25	09/12/19 09:17	
400-176250-4	GWA-28	Water	09/10/19 11:03	09/12/19 09:17	
400-176250-5	GWA-29	Water	09/10/19 12:31	09/12/19 09:17	
400-176250-6	GWC-7	Water	09/10/19 10:24	09/12/19 09:17	
400-176250-7	GWC-8	Water	09/10/19 14:10	09/12/19 09:17	
400-176250-8	GWC-22	Water	09/10/19 15:06	09/12/19 09:17	
400-176250-9	GWC-30	Water	09/10/19 13:44	09/12/19 09:17	
400-176250-10	DUP-1	Water	09/10/19 00:00	09/12/19 09:17	
400-176250-11	FB-1-9-10-19	Water	09/10/19 12:20	09/12/19 09:17	

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWA-1**

**Lab Sample ID: 400-176250-1**

Date Collected: 09/09/19 14:55

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.9</b>		1.0	0.89	mg/L			09/16/19 18:52	1
Fluoride	<0.082		0.20	0.082	mg/L			09/16/19 18:52	1
Sulfate	<0.70		1.0	0.70	mg/L			09/16/19 18:52	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 13:55	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		11/06/19 11:42	11/07/19 21:56	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 21:56	1
<b>Barium</b>	<b>0.012</b>		0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 21:56	1
<b>Beryllium</b>	<b>0.00019</b>	<b>J</b>	0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 21:56	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 21:56	1
<b>Cobalt</b>	<b>0.00019</b>	<b>J</b>	0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 21:56	1
<b>Chromium</b>	<b>0.0017</b>	<b>J</b>	0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 21:56	1
Copper	<0.00063		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 21:56	1
<b>Nickel</b>	<b>0.00099</b>	<b>J</b>	0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 21:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 21:56	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 21:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 21:56	1
<b>Thallium</b>	<b>0.00015</b>	<b>J</b>	0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 21:56	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 21:56	1
<b>Zinc</b>	<b>0.0064</b>		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 21:56	1
<b>Calcium</b>	<b>0.80</b>		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 21:56	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:08	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>16</b>		5.0	3.4	mg/L			09/13/19 09:55	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWA-2**

**Lab Sample ID: 400-176250-2**

Date Collected: 09/10/19 12:35

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.89	mg/L			09/18/19 19:17	1
Fluoride	<0.082		0.20	0.082	mg/L			09/18/19 19:17	1
Sulfate	0.90	J	1.0	0.70	mg/L			09/18/19 19:17	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 13:57	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		11/06/19 11:42	11/07/19 21:59	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 21:59	1
Barium	0.015		0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 21:59	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 21:59	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 21:59	1
Cobalt	0.00029	J	0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 21:59	1
Chromium	0.0019	J	0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 21:59	1
Copper	0.0014	J	0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 21:59	1
Nickel	0.0014		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 21:59	1
Lead	0.00014	J	0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 21:59	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 21:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 21:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 21:59	1
Vanadium	0.0011		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 21:59	1
Zinc	0.0064		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 21:59	1
Calcium	4.2		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 21:59	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:12	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52	B	5.0	3.4	mg/L			09/13/19 14:19	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWA-4**

**Lab Sample ID: 400-176250-3**

Date Collected: 09/10/19 11:25

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		1.0	0.89	mg/L			09/18/19 19:40	1
Fluoride	0.091	J	0.20	0.082	mg/L			09/18/19 19:40	1
Sulfate	11		1.0	0.70	mg/L			09/18/19 19:40	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 14:00	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		11/06/19 11:42	11/07/19 22:03	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:03	1
Barium	0.16		0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:03	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:03	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:03	1
Cobalt	0.0062		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:03	1
Copper	<0.00063		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:03	1
Nickel	0.0017		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:03	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:03	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:03	1
Zinc	0.0060		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:03	1
Calcium	31		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:03	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190	B	5.0	3.4	mg/L			09/13/19 14:19	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWA-28**

**Lab Sample ID: 400-176250-4**

Date Collected: 09/10/19 11:03

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			09/18/19 20:03	1
Fluoride	1.8		0.20	0.082	mg/L			09/18/19 20:03	1
Sulfate	1.3		1.0	0.70	mg/L			09/18/19 20:03	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 14:04	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		11/06/19 11:42	11/07/19 22:06	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:06	1
Barium	0.0022	J	0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:06	1
Beryllium	0.00049	J	0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:06	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:06	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:06	1
Chromium	0.0018	J	0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:06	1
Copper	<0.00063		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:06	1
Nickel	0.00047	J	0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:06	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:06	1
Vanadium	0.0012		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:06	1
Zinc	0.010		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:06	1
Calcium	2.9		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:06	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:18	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86	B	5.0	3.4	mg/L			09/13/19 14:19	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWA-29**

**Lab Sample ID: 400-176250-5**

Date Collected: 09/10/19 12:31

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			09/18/19 20:26	1
Fluoride	2.6		0.20	0.082	mg/L			09/18/19 20:26	1
Sulfate	9.2		1.0	0.70	mg/L			09/18/19 20:26	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0015		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:10	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:10	1
Barium	0.0033	J	0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:10	1
Beryllium	0.0023		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:10	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:10	1
Cobalt	0.000089	J	0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:10	1
Chromium	0.0019	J	0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:10	1
Copper	0.0074		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:10	1
Nickel	0.0024		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:10	1
Lead	0.00028	J	0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:10	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:10	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:10	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:10	1
Zinc	0.031		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:10	1
Calcium	4.8		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:10	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:22	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120	B	5.0	3.4	mg/L			09/13/19 14:19	1



# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWC-7**

**Lab Sample ID: 400-176250-6**

Date Collected: 09/10/19 10:24

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.89	mg/L			09/18/19 20:48	1
Fluoride	0.28		0.20	0.082	mg/L			09/18/19 20:48	1
Sulfate	52		2.0	1.4	mg/L			09/19/19 12:01	2

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 14:11	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		11/06/19 11:42	11/07/19 22:13	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:13	1
Barium	0.086		0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:13	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:13	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:13	1
Cobalt	0.0035		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:13	1
Nickel	0.0089		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:13	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:13	1
Vanadium	0.0024		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:13	1
Zinc	0.0063		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:13	1
Calcium	50		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:13	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:25	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	380	B	5.0	3.4	mg/L			09/13/19 14:19	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWC-8**

**Lab Sample ID: 400-176250-7**

Date Collected: 09/10/19 14:10

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.0		1.0	0.89	mg/L			09/18/19 21:11	1
Fluoride	0.10	J	0.20	0.082	mg/L			09/18/19 21:11	1
Sulfate	14		1.0	0.70	mg/L			09/18/19 21:11	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00040		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 14:15	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		11/06/19 11:42	11/07/19 22:16	1
Arsenic	0.00043	J	0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:16	1
Barium	0.066		0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:16	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:16	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:16	1
Cobalt	0.041		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:16	1
Chromium	0.0018	J	0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:16	1
Copper	0.00065	J	0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:16	1
Nickel	0.0026		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:16	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:16	1
Vanadium	0.0014		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:16	1
Zinc	0.0051		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:16	1
Calcium	30		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:16	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:29	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		5.0	3.4	mg/L			09/16/19 09:48	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWC-22**

**Lab Sample ID: 400-176250-8**

Date Collected: 09/10/19 15:06

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.6</b>		1.0	0.89	mg/L			09/18/19 21:34	1
Fluoride	<0.082		0.20	0.082	mg/L			09/18/19 21:34	1
Sulfate	<0.70		1.0	0.70	mg/L			09/18/19 21:34	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 14:17	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		11/06/19 11:42	11/07/19 22:20	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:20	1
<b>Barium</b>	<b>0.027</b>		0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:20	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:20	1
<b>Cadmium</b>	<b>0.00046 J</b>		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:20	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:20	1
<b>Chromium</b>	<b>0.0026</b>		0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:20	1
<b>Copper</b>	<b>0.0010 J</b>		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:20	1
Nickel	<0.00034		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:20	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:20	1
<b>Vanadium</b>	<b>0.0082</b>		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:20	1
<b>Zinc</b>	<b>0.0061</b>		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:20	1
<b>Calcium</b>	<b>11</b>		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:20	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:32	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		5.0	3.4	mg/L			09/16/19 09:48	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWC-30**

**Lab Sample ID: 400-176250-9**

Date Collected: 09/10/19 13:44

Matrix: Water

Date Received: 09/12/19 09:17

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			09/18/19 22:42	1
Fluoride	0.10	J	0.20	0.082	mg/L			09/18/19 22:42	1
Sulfate	1.3		1.0	0.70	mg/L			09/18/19 22:42	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 14:19	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		11/06/19 11:42	11/07/19 22:23	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:23	1
Barium	0.0098	J	0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:23	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:23	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:23	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:23	1
Chromium	0.0019	J	0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:23	1
Copper	<0.00063		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:23	1
Nickel	<0.00034		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:23	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:23	1
Vanadium	0.0018		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:23	1
Zinc	0.019		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:23	1
Calcium	4.0		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:23	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 17:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		5.0	3.4	mg/L			09/16/19 09:48	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: DUP-1**

**Lab Sample ID: 400-176250-10**

Date Collected: 09/10/19 00:00

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			09/16/19 19:15	1
Fluoride	1.8		0.20	0.082	mg/L			09/16/19 19:15	1
Sulfate	1.3		1.0	0.70	mg/L			09/16/19 19:15	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/18/19 16:22	09/23/19 14:30	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		11/06/19 11:42	11/07/19 22:43	1
Arsenic	0.00037	J	0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:43	1
Barium	0.0025	J	0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:43	1
Beryllium	0.00061	J	0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:43	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:43	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:43	1
Chromium	0.0020		0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:43	1
Copper	<0.00063		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:43	1
Nickel	0.00051	J	0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:43	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:43	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:43	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:43	1
Thallium	0.00017	J	0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:43	1
Vanadium	0.0018		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:43	1
Zinc	0.0093	B	0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:43	1
Calcium	2.8		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:43	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/07/19 22:43	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92		5.0	3.4	mg/L			09/13/19 09:55	1

# Client Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: FB-1-9-10-19**

**Lab Sample ID: 400-176250-11**

Date Collected: 09/10/19 12:20

Matrix: Water

Date Received: 09/12/19 09:17

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/18/19 23:05	1
Fluoride	<0.082		0.20	0.082	mg/L			09/18/19 23:05	1
Sulfate	<0.70		1.0	0.70	mg/L			09/18/19 23:05	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/18/19 16:23	09/23/19 14:32	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		11/06/19 11:42	11/07/19 22:47	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 22:47	1
<b>Barium</b>	<b>0.0018</b>	<b>J</b>	0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 22:47	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 22:47	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:47	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 22:47	1
<b>Chromium</b>	<b>0.0020</b>		0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 22:47	1
Copper	<0.00063		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 22:47	1
Nickel	<0.00034		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 22:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 22:47	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 22:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 22:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 22:47	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 22:47	1
<b>Zinc</b>	<b>0.0032</b>	<b>J B</b>	0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 22:47	1
Calcium	<0.13		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 22:47	1
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/07/19 22:47	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			09/16/19 09:48	1

# Definitions/Glossary

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

Job ID: 400-176250-1  
SDG: Landfill

## 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.

### Metals

Qualifier	Qualifier Description
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
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.

## 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)

# QC Association Summary

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

Job ID: 400-176250-1  
SDG: Landfill

## HPLC/IC

### Analysis Batch: 457101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-1	GWA-1	Total/NA	Water	300.0	
400-176250-10	DUP-1	Total/NA	Water	300.0	
MB 400-457101/4	Method Blank	Total/NA	Water	300.0	
LCS 400-457101/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-457101/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-176250-1 MS	GWA-1	Total/NA	Water	300.0	
400-176250-1 MSD	GWA-1	Total/NA	Water	300.0	

### Analysis Batch: 457675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-2	GWA-2	Total/NA	Water	300.0	
400-176250-3	GWA-4	Total/NA	Water	300.0	
400-176250-4	GWA-28	Total/NA	Water	300.0	
400-176250-5	GWA-29	Total/NA	Water	300.0	
400-176250-6	GWC-7	Total/NA	Water	300.0	
400-176250-7	GWC-8	Total/NA	Water	300.0	
400-176250-8	GWC-22	Total/NA	Water	300.0	
400-176250-9	GWC-30	Total/NA	Water	300.0	
400-176250-11	FB-1-9-10-19	Total/NA	Water	300.0	
MB 400-457675/11	Method Blank	Total/NA	Water	300.0	
LCS 400-457675/12	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-457675/13	Lab Control Sample Dup	Total/NA	Water	300.0	
400-176250-1 MS	GWA-1	Total/NA	Water	300.0	
400-176250-1 MSD	GWA-1	Total/NA	Water	300.0	

### Analysis Batch: 457679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-6	GWC-7	Total/NA	Water	300.0	
MB 400-457679/44	Method Blank	Total/NA	Water	300.0	
LCS 400-457679/45	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-457679/46	Lab Control Sample Dup	Total/NA	Water	300.0	

## Metals

### Prep Batch: 297288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-1	GWA-1	Total Recoverable	Water	3005A	
400-176250-2	GWA-2	Total Recoverable	Water	3005A	
400-176250-3	GWA-4	Total Recoverable	Water	3005A	
400-176250-4	GWA-28	Total Recoverable	Water	3005A	
400-176250-5	GWA-29	Total Recoverable	Water	3005A	
400-176250-6	GWC-7	Total Recoverable	Water	3005A	
400-176250-7	GWC-8	Total Recoverable	Water	3005A	
400-176250-8	GWC-22	Total Recoverable	Water	3005A	
400-176250-9	GWC-30	Total Recoverable	Water	3005A	
400-176250-10	DUP-1	Total Recoverable	Water	3005A	
400-176250-11	FB-1-9-10-19	Total Recoverable	Water	3005A	
MB 180-297288/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-297288/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-176250-9 MS	GWC-30	Total Recoverable	Water	3005A	
400-176250-9 MSD	GWC-30	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pensacola



# QC Association Summary

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

Job ID: 400-176250-1  
SDG: Landfill

## Metals

### Analysis Batch: 297497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-1	GWA-1	Total Recoverable	Water	EPA 6020	297288
400-176250-2	GWA-2	Total Recoverable	Water	EPA 6020	297288
400-176250-3	GWA-4	Total Recoverable	Water	EPA 6020	297288
400-176250-4	GWA-28	Total Recoverable	Water	EPA 6020	297288
400-176250-5	GWA-29	Total Recoverable	Water	EPA 6020	297288
400-176250-6	GWC-7	Total Recoverable	Water	EPA 6020	297288
400-176250-7	GWC-8	Total Recoverable	Water	EPA 6020	297288
400-176250-8	GWC-22	Total Recoverable	Water	EPA 6020	297288
400-176250-9	GWC-30	Total Recoverable	Water	EPA 6020	297288
400-176250-10	DUP-1	Total Recoverable	Water	EPA 6020	297288
400-176250-11	FB-1-9-10-19	Total Recoverable	Water	EPA 6020	297288
MB 180-297288/1-A	Method Blank	Total Recoverable	Water	EPA 6020	297288
LCS 180-297288/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	297288
400-176250-9 MS	GWC-30	Total Recoverable	Water	EPA 6020	297288
400-176250-9 MSD	GWC-30	Total Recoverable	Water	EPA 6020	297288

### Analysis Batch: 297666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-1	GWA-1	Total Recoverable	Water	EPA 6020	297288
400-176250-2	GWA-2	Total Recoverable	Water	EPA 6020	297288
400-176250-3	GWA-4	Total Recoverable	Water	EPA 6020	297288
400-176250-4	GWA-28	Total Recoverable	Water	EPA 6020	297288
400-176250-5	GWA-29	Total Recoverable	Water	EPA 6020	297288
400-176250-6	GWC-7	Total Recoverable	Water	EPA 6020	297288
400-176250-7	GWC-8	Total Recoverable	Water	EPA 6020	297288
400-176250-8	GWC-22	Total Recoverable	Water	EPA 6020	297288
400-176250-9	GWC-30	Total Recoverable	Water	EPA 6020	297288
MB 180-297288/1-A	Method Blank	Total Recoverable	Water	EPA 6020	297288
LCS 180-297288/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	297288

### Prep Batch: 457526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-1	GWA-1	Total/NA	Water	7470A	
400-176250-2	GWA-2	Total/NA	Water	7470A	
400-176250-3	GWA-4	Total/NA	Water	7470A	
400-176250-4	GWA-28	Total/NA	Water	7470A	
400-176250-5	GWA-29	Total/NA	Water	7470A	
400-176250-6	GWC-7	Total/NA	Water	7470A	
400-176250-7	GWC-8	Total/NA	Water	7470A	
400-176250-8	GWC-22	Total/NA	Water	7470A	
400-176250-9	GWC-30	Total/NA	Water	7470A	
400-176250-10	DUP-1	Total/NA	Water	7470A	
400-176250-11	FB-1-9-10-19	Total/NA	Water	7470A	
MB 400-457526/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-457526/15-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 458338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-1	GWA-1	Total/NA	Water	7470A	457526
400-176250-2	GWA-2	Total/NA	Water	7470A	457526
400-176250-3	GWA-4	Total/NA	Water	7470A	457526

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# QC Association Summary

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

Job ID: 400-176250-1  
SDG: Landfill

## Metals (Continued)

### Analysis Batch: 458338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-4	GWA-28	Total/NA	Water	7470A	457526
400-176250-5	GWA-29	Total/NA	Water	7470A	457526
400-176250-6	GWC-7	Total/NA	Water	7470A	457526
400-176250-7	GWC-8	Total/NA	Water	7470A	457526
400-176250-8	GWC-22	Total/NA	Water	7470A	457526
400-176250-9	GWC-30	Total/NA	Water	7470A	457526
400-176250-10	DUP-1	Total/NA	Water	7470A	457526
400-176250-11	FB-1-9-10-19	Total/NA	Water	7470A	457526
LCS 400-457526/15-A	Lab Control Sample	Total/NA	Water	7470A	457526

### Analysis Batch: 458349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-457526/14-A	Method Blank	Total/NA	Water	7470A	457526

## General Chemistry

### Analysis Batch: 456797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-1	GWA-1	Total/NA	Water	SM 2540C	
400-176250-10	DUP-1	Total/NA	Water	SM 2540C	
MB 400-456797/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-456797/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 456836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-2	GWA-2	Total/NA	Water	SM 2540C	
400-176250-3	GWA-4	Total/NA	Water	SM 2540C	
400-176250-4	GWA-28	Total/NA	Water	SM 2540C	
400-176250-5	GWA-29	Total/NA	Water	SM 2540C	
400-176250-6	GWC-7	Total/NA	Water	SM 2540C	
MB 400-456836/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-456836/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-176250-6 DU	GWC-7	Total/NA	Water	SM 2540C	

### Analysis Batch: 457056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176250-7	GWC-8	Total/NA	Water	SM 2540C	
400-176250-8	GWC-22	Total/NA	Water	SM 2540C	
400-176250-9	GWC-30	Total/NA	Water	SM 2540C	
400-176250-11	FB-1-9-10-19	Total/NA	Water	SM 2540C	
MB 400-457056/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-457056/2	Lab Control Sample	Total/NA	Water	SM 2540C	

# QC Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 400-457101/4**  
**Matrix: Water**  
**Analysis Batch: 457101**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/16/19 12:01	1
Fluoride	<0.082		0.20	0.082	mg/L			09/16/19 12:01	1
Sulfate	<0.70		1.0	0.70	mg/L			09/16/19 12:01	1

**Lab Sample ID: LCS 400-457101/5**  
**Matrix: Water**  
**Analysis Batch: 457101**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.87		mg/L		99	90 - 110
Fluoride	10.0	10.6		mg/L		106	90 - 110
Sulfate	10.0	10.7		mg/L		107	90 - 110

**Lab Sample ID: LCSD 400-457101/6**  
**Matrix: Water**  
**Analysis Batch: 457101**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.85		mg/L		98	90 - 110	0	15
Fluoride	10.0	10.8		mg/L		108	90 - 110	2	15
Sulfate	10.0	10.7		mg/L		107	90 - 110	0	15

**Lab Sample ID: 400-176250-1 MS**  
**Matrix: Water**  
**Analysis Batch: 457101**

**Client Sample ID: GWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.9		10.0	11.4		mg/L		95	80 - 120
Fluoride	<0.082		10.0	10.9		mg/L		109	80 - 120
Sulfate	<0.70		10.0	10.8		mg/L		108	80 - 120

**Lab Sample ID: 400-176250-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 457101**

**Client Sample ID: GWA-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	1.9		10.0	11.1		mg/L		92	80 - 120	3	20
Fluoride	<0.082		10.0	10.6		mg/L		106	80 - 120	3	20
Sulfate	<0.70		10.0	10.5		mg/L		105	80 - 120	2	20

**Lab Sample ID: MB 400-457675/11**  
**Matrix: Water**  
**Analysis Batch: 457675**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/18/19 13:57	1
Fluoride	<0.082		0.20	0.082	mg/L			09/18/19 13:57	1
Sulfate	<0.70		1.0	0.70	mg/L			09/18/19 13:57	1

# QC Sample Results

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

Job ID: 400-176250-1  
SDG: Landfill

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 400-457675/12**  
**Matrix: Water**  
**Analysis Batch: 457675**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Fluoride	10.0	10.9		mg/L		109	90 - 110
Sulfate	10.0	10.3		mg/L		103	90 - 110

**Lab Sample ID: LCSD 400-457675/13**  
**Matrix: Water**  
**Analysis Batch: 457675**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.0		mg/L		100	90 - 110	0	15
Fluoride	10.0	10.8		mg/L		108	90 - 110	0	15
Sulfate	10.0	10.3		mg/L		103	90 - 110	0	15

**Lab Sample ID: 400-176250-1 MS**  
**Matrix: Water**  
**Analysis Batch: 457675**

**Client Sample ID: GWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.8		10.0	11.7		mg/L		99	80 - 120
Fluoride	<0.082		10.0	10.7		mg/L		107	80 - 120
Sulfate	<0.70		10.0	10.8		mg/L		108	80 - 120

**Lab Sample ID: 400-176250-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 457675**

**Client Sample ID: GWA-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	1.8		10.0	11.7		mg/L		99	80 - 120	0	20
Fluoride	<0.082		10.0	10.7		mg/L		107	80 - 120	0	20
Sulfate	<0.70		10.0	10.8		mg/L		108	80 - 120	0	20

**Lab Sample ID: MB 400-457679/44**  
**Matrix: Water**  
**Analysis Batch: 457679**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/19/19 02:31	1
Fluoride	<0.082		0.20	0.082	mg/L			09/19/19 02:31	1
Sulfate	<0.70		1.0	0.70	mg/L			09/19/19 02:31	1

**Lab Sample ID: LCS 400-457679/45**  
**Matrix: Water**  
**Analysis Batch: 457679**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	10.0	10.7		mg/L		107	90 - 110
Sulfate	10.0	11.0		mg/L		110	90 - 110

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCSD 400-457679/46**  
**Matrix: Water**  
**Analysis Batch: 457679**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.1		mg/L		101	90 - 110	2	15
Fluoride	10.0	10.8		mg/L		108	90 - 110	1	15
Sulfate	10.0	11.0		mg/L		110	90 - 110	0	15

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 400-457526/14-A**  
**Matrix: Water**  
**Analysis Batch: 458349**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 457526**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.070		0.20	0.070	ug/L		09/18/19 16:13	09/24/19 10:26	1

**Lab Sample ID: LCS 400-457526/15-A**  
**Matrix: Water**  
**Analysis Batch: 458338**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 457526**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000893		mg/L		89	80 - 120

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-297288/1-A**  
**Matrix: Water**  
**Analysis Batch: 297497**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 297288**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 21:36	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		11/06/19 11:42	11/07/19 21:36	1
Barium	<0.0016		0.010	0.0016	mg/L		11/06/19 11:42	11/07/19 21:36	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		11/06/19 11:42	11/07/19 21:36	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 21:36	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		11/06/19 11:42	11/07/19 21:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/06/19 11:42	11/07/19 21:36	1
Copper	<0.00063		0.0020	0.00063	mg/L		11/06/19 11:42	11/07/19 21:36	1
Nickel	<0.00034		0.0010	0.00034	mg/L		11/06/19 11:42	11/07/19 21:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/06/19 11:42	11/07/19 21:36	1
Antimony	<0.00038		0.0020	0.00038	mg/L		11/06/19 11:42	11/07/19 21:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/06/19 11:42	11/07/19 21:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/06/19 11:42	11/07/19 21:36	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		11/06/19 11:42	11/07/19 21:36	1
Zinc	<0.0032		0.0050	0.0032	mg/L		11/06/19 11:42	11/07/19 21:36	1
Calcium	<0.13		0.50	0.13	mg/L		11/06/19 11:42	11/07/19 21:36	1

**Lab Sample ID: MB 180-297288/1-A**  
**Matrix: Water**  
**Analysis Batch: 297666**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 297288**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		11/06/19 11:42	11/08/19 16:44	1

Eurofins TestAmerica, Pensacola

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: LCS 180-297288/2-A**  
**Matrix: Water**  
**Analysis Batch: 297497**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 297288**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.250	0.263		mg/L		105	80 - 120
Arsenic	1.00	0.958		mg/L		96	80 - 120
Barium	1.00	1.12		mg/L		112	80 - 120
Beryllium	0.500	0.528		mg/L		106	80 - 120
Cadmium	0.500	0.506		mg/L		101	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Chromium	0.500	0.519		mg/L		104	80 - 120
Copper	0.500	0.518		mg/L		104	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Lead	0.500	0.528		mg/L		106	80 - 120
Antimony	0.250	0.291		mg/L		116	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Vanadium	0.500	0.524		mg/L		105	80 - 120
Zinc	0.250	0.243		mg/L		97	80 - 120
Calcium	25.0	25.6		mg/L		102	80 - 120

**Lab Sample ID: LCS 180-297288/2-A**  
**Matrix: Water**  
**Analysis Batch: 297666**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 297288**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.30		mg/L		104	80 - 120

**Lab Sample ID: 400-176250-9 MS**  
**Matrix: Water**  
**Analysis Batch: 297497**

**Client Sample ID: GWC-30**  
**Prep Type: Total Recoverable**  
**Prep Batch: 297288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Silver	<0.00018		0.250	0.261		mg/L		104	75 - 125
Arsenic	<0.00032		1.00	0.964		mg/L		96	75 - 125
Barium	0.0098	J	1.00	1.12		mg/L		111	75 - 125
Beryllium	<0.00018		0.500	0.534		mg/L		107	75 - 125
Cadmium	<0.00013		0.500	0.514		mg/L		103	75 - 125
Cobalt	<0.000075		0.500	0.504		mg/L		101	75 - 125
Chromium	0.0019	J	0.500	0.516		mg/L		103	75 - 125
Copper	<0.00063		0.500	0.515		mg/L		103	75 - 125
Nickel	<0.00034		0.500	0.510		mg/L		102	75 - 125
Lead	<0.00013		0.500	0.513		mg/L		103	75 - 125
Antimony	<0.00038		0.250	0.273		mg/L		109	75 - 125
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125
Thallium	<0.00015		1.00	1.06		mg/L		106	75 - 125
Vanadium	0.0018		0.500	0.518		mg/L		103	75 - 125
Zinc	0.019		0.250	0.249	B	mg/L		92	75 - 125
Calcium	4.0		25.0	28.7		mg/L		99	75 - 125
Boron	<0.039		1.25	1.16		mg/L		92	75 - 125

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 400-176250-9 MSD**  
**Matrix: Water**  
**Analysis Batch: 297497**

**Client Sample ID: GWC-30**  
**Prep Type: Total Recoverable**  
**Prep Batch: 297288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	<0.00018		0.250	0.274		mg/L		110	75 - 125	5	20
Arsenic	<0.00032		1.00	1.02		mg/L		102	75 - 125	5	20
Barium	0.0098	J	1.00	1.16		mg/L		115	75 - 125	3	20
Beryllium	<0.00018		0.500	0.568		mg/L		114	75 - 125	6	20
Cadmium	<0.00013		0.500	0.538		mg/L		108	75 - 125	5	20
Cobalt	<0.000075		0.500	0.525		mg/L		105	75 - 125	4	20
Chromium	0.0019	J	0.500	0.538		mg/L		107	75 - 125	4	20
Copper	<0.00063		0.500	0.535		mg/L		107	75 - 125	4	20
Nickel	<0.00034		0.500	0.532		mg/L		106	75 - 125	4	20
Lead	<0.00013		0.500	0.549		mg/L		110	75 - 125	7	20
Antimony	<0.00038		0.250	0.288		mg/L		115	75 - 125	5	20
Selenium	<0.0015		1.00	1.10		mg/L		110	75 - 125	6	20
Thallium	<0.00015		1.00	1.12		mg/L		112	75 - 125	6	20
Vanadium	0.0018		0.500	0.539		mg/L		107	75 - 125	4	20
Zinc	0.019		0.250	0.263	B	mg/L		97	75 - 125	5	20
Calcium	4.0		25.0	30.0		mg/L		104	75 - 125	4	20
Boron	<0.039		1.25	1.23		mg/L		98	75 - 125	6	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 400-456797/1**  
**Matrix: Water**  
**Analysis Batch: 456797**

**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	<3.4		5.0	3.4	mg/L			09/13/19 09:55	1

**Lab Sample ID: LCS 400-456797/2**  
**Matrix: Water**  
**Analysis Batch: 456797**

**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	293	256		mg/L		87	78 - 122

**Lab Sample ID: MB 400-456836/1**  
**Matrix: Water**  
**Analysis Batch: 456836**

**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	4.00	J	5.0	3.4	mg/L			09/13/19 14:19	1

**Lab Sample ID: LCS 400-456836/2**  
**Matrix: Water**  
**Analysis Batch: 456836**

**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	293	302		mg/L		103	78 - 122

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
 SDG: Landfill

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: 400-176250-6 DU**  
**Matrix: Water**  
**Analysis Batch: 456836**

**Client Sample ID: GWC-7**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	380	B	376		mg/L	-	2	5

**Lab Sample ID: MB 400-457056/1**  
**Matrix: Water**  
**Analysis Batch: 457056**

**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	<3.4		5.0	3.4	mg/L	-		09/16/19 09:48	1

**Lab Sample ID: LCS 400-457056/2**  
**Matrix: Water**  
**Analysis Batch: 457056**

**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	293	350		mg/L	-	119	78 - 122



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: GWA-1**

**Lab Sample ID: 400-176250-1**

**Date Collected: 09/09/19 14:55**

**Matrix: Water**

**Date Received: 09/12/19 09:17**

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			457101	09/16/19 18:52	KLR	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 13:55	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 21:56	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:08	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	456797	09/13/19 09:55	CLB	TAL PEN

**Client Sample ID: GWA-2**

**Lab Sample ID: 400-176250-2**

**Date Collected: 09/10/19 12:35**

**Matrix: Water**

**Date Received: 09/12/19 09:17**

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			457675	09/18/19 19:17	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 13:57	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 21:59	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:12	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	456836	09/13/19 14:19	CLB	TAL PEN

**Client Sample ID: GWA-4**

**Lab Sample ID: 400-176250-3**

**Date Collected: 09/10/19 11:25**

**Matrix: Water**

**Date Received: 09/12/19 09:17**

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			457675	09/18/19 19:40	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:00	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:03	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:15	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	456836	09/13/19 14:19	CLB	TAL PEN

**Client Sample ID: GWA-28**

**Lab Sample ID: 400-176250-4**

**Date Collected: 09/10/19 11:03**

**Matrix: Water**

**Date Received: 09/12/19 09:17**

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			457675	09/18/19 20:03	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:04	JAP	TAL PEN

Eurofins TestAmerica, Pensacola

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

## Client Sample ID: GWA-28

Date Collected: 09/10/19 11:03

Date Received: 09/12/19 09:17

## Lab Sample ID: 400-176250-4

Matrix: 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	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:06	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:18	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	456836	09/13/19 14:19	CLB	TAL PEN

## Client Sample ID: GWA-29

Date Collected: 09/10/19 12:31

Date Received: 09/12/19 09:17

## Lab Sample ID: 400-176250-5

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			457675	09/18/19 20:26	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:06	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:10	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:22	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	456836	09/13/19 14:19	CLB	TAL PEN

## Client Sample ID: GWC-7

Date Collected: 09/10/19 10:24

Date Received: 09/12/19 09:17

## Lab Sample ID: 400-176250-6

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			457675	09/18/19 20:48	JAW	TAL PEN
Total/NA	Analysis	300.0		2			457679	09/19/19 12:01	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:11	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:13	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:25	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	456836	09/13/19 14:19	CLB	TAL PEN

## Client Sample ID: GWC-8

Date Collected: 09/10/19 14:10

Date Received: 09/12/19 09:17

## Lab Sample ID: 400-176250-7

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	300.0		1			457675	09/18/19 21:11	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:15	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:16	RSK	TAL PIT

Eurofins TestAmerica, Pensacola

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

## Client Sample ID: GWC-8

Date Collected: 09/10/19 14:10

Date Received: 09/12/19 09:17

## Lab Sample ID: 400-176250-7

Matrix: 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	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:29	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	457056	09/16/19 09:48	NT	TAL PEN

## Client Sample ID: GWC-22

Date Collected: 09/10/19 15:06

Date Received: 09/12/19 09:17

## Lab Sample ID: 400-176250-8

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			457675	09/18/19 21:34	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:17	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:20	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:32	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	457056	09/16/19 09:48	NT	TAL PEN

## Client Sample ID: GWC-30

Date Collected: 09/10/19 13:44

Date Received: 09/12/19 09:17

## Lab Sample ID: 400-176250-9

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			457675	09/18/19 22:42	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:19	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:23	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:43	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	457056	09/16/19 09:48	NT	TAL PEN

## Client Sample ID: DUP-1

Date Collected: 09/10/19 00:00

Date Received: 09/12/19 09:17

## Lab Sample ID: 400-176250-10

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			457101	09/16/19 19:15	KLR	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:30	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:43	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	456797	09/13/19 09:55	CLB	TAL PEN

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: FB-1-9-10-19**

**Lab Sample ID: 400-176250-11**

**Date Collected: 09/10/19 12:20**

**Matrix: Water**

**Date Received: 09/12/19 09:17**

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			457675	09/18/19 23:05	JAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:23	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 14:32	JAP	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:47	RSK	TAL PIT
Total/NA	Analysis	SM 2540C		1	50 mL	50 mL	457056	09/16/19 09:48	NT	TAL PEN

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 180-297288/1-A**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

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	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 21:36	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 16:44	RSK	TAL PIT

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 400-456797/1**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

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	50 mL	50 mL	456797	09/13/19 09:55	CLB	TAL PEN

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 400-456836/1**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

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	50 mL	50 mL	456836	09/13/19 14:19	CLB	TAL PEN

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 400-457056/1**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

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	50 mL	50 mL	457056	09/16/19 09:48	NT	TAL PEN

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 400-457101/4**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

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			457101	09/16/19 12:01	KLR	TAL PEN

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 400-457526/14-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458349	09/24/19 10:26	JAP	TAL PEN

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 400-457675/11**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			457675	09/18/19 13:57	JAW	TAL PEN

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 400-457679/44**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			457679	09/19/19 02:31	JAW	TAL PEN

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 180-297288/2-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 21:53	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297666	11/08/19 17:01	RSK	TAL PIT

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 400-456797/2**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	50 mL	50 mL	456797	09/13/19 09:55	CLB	TAL PEN

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 400-456836/2**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	50 mL	50 mL	456836	09/13/19 14:19	CLB	TAL PEN

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 400-457056/2**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	50 mL	50 mL	457056	09/16/19 09:48	NT	TAL PEN

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 400-457101/5**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			457101	09/16/19 12:24	KLR	TAL PEN

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 400-457526/15-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	457526	09/18/19 16:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1			458338	09/23/19 12:22	JAP	TAL PEN

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 400-457675/12**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			457675	09/18/19 14:20	JAW	TAL PEN

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 400-457679/45**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			457679	09/19/19 02:54	JAW	TAL PEN

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 400-457101/6**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			457101	09/16/19 12:47	KLR	TAL PEN

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 400-457675/13**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			457675	09/18/19 14:43	JAW	TAL PEN

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 400-457679/46**

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			457679	09/19/19 03:16	JAW	TAL PEN

**Client Sample ID: GWA-1**

**Lab Sample ID: 400-176250-1 MS**

Date Collected: 09/09/19 14:55

Matrix: Water

Date Received: 09/12/19 09:17

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			457101	09/16/19 18:06	KLR	TAL PEN
Total/NA	Analysis	300.0		1			457675	09/18/19 18:09	JAW	TAL PEN

**Client Sample ID: GWA-1**

**Lab Sample ID: 400-176250-1 MSD**

Date Collected: 09/09/19 14:55

Matrix: Water

Date Received: 09/12/19 09:17

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			457101	09/16/19 18:29	KLR	TAL PEN
Total/NA	Analysis	300.0		1			457675	09/18/19 18:31	JAW	TAL PEN

**Client Sample ID: GWC-30**

**Lab Sample ID: 400-176250-9 MS**

Date Collected: 09/10/19 13:44

Matrix: Water

Date Received: 09/12/19 09:17

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	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:37	RSK	TAL PIT

**Client Sample ID: GWC-30**

**Lab Sample ID: 400-176250-9 MSD**

Date Collected: 09/10/19 13:44

Matrix: Water

Date Received: 09/12/19 09:17

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	297288	11/06/19 11:42	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			297497	11/07/19 22:40	RSK	TAL PIT

**Client Sample ID: GWC-7**

**Lab Sample ID: 400-176250-6 DU**

Date Collected: 09/10/19 10:24

Matrix: Water

Date Received: 09/12/19 09:17

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	50 mL	50 mL	456836	09/13/19 14:19	CLB	TAL PEN

**Laboratory References:**

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
SDG: Landfill

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PEN

#### Protocol References:

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 PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
 SDG: Landfill

## Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-22-20
Arizona	State	AZ0710	01-12-20
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-19 *
Iowa	State	367	08-01-20
Iowa	State Program	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (UST)	State Program	53	06-30-20
Kentucky (WW)	State	KY98030	12-30-19
Louisiana	NELAP	30976	06-30-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	NELAP	LA017	12-31-19
Louisiana (DW)	State	<cert No.>	12-31-19
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-19
New Jersey	NELAP	FL006	07-30-20
North Carolina (WW/SW)	State	314	12-31-19
North Carolina (WW/SW)	State Program	314	12-31-19
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-20
Rhode Island	State	LAO00307	12-30-19
Rhode Island	State Program	LAO00307	12-30-19
South Carolina	State	96026002	06-30-20
South Carolina	State Program	96026	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-19
US Fish & Wildlife	Federal	LE058448-0	07-31-20
US Fish & Wildlife	US Federal Programs	LE058448	06-07-20
USDA	Federal	P330-18-00148	05-17-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	09-30-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Wansley

Job ID: 400-176250-1  
 SDG: Landfill

## 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	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
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	01-31-20
Wisconsin	State	998027800	08-31-20

**TestAmerica Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Fax (850) 478-2671

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information  
 Client Contact: Jolu Abraham  
 Company: Southern Company  
 Address: PO BOX 2641 GSC8  
 City: Birmingham  
 State, Zip: AL, 35291  
 Phone: 770-594-5998  
 Email: JAbraham@southernco.com  
 Project Name: CCR - Plant Wansley - Landfill  
 Site: Georgia

Lab PM: Bortol, Veronica  
 E-Mail: veronica.bortol@testamericainc.com  
 Phone: 400-176250 COC  
 Job #:   
 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 - Na2OAS  
 Q - Na2SO3  
 R - Na2SO4  
 S - H2SO4  
 T - TSP Dodecahydrate  
 U - Acetone  
 V - MCAA  
 W - pH 4.5  
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sludge, etc.)	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, Tl, V, Zn, Hg, Cl, F, SO4 & TDS (EPA 300.0 & SM 2540C)	Total Number of Containers	Special Instructions/Note:
GWA-1	9-9-19	1455	G	Water	N	N	✓	2	APP III PLUS STATE METALS LIST
GWA-2	9-10-19	1235	G	Water	N	N	✓	2	
GWA-4	9-10-19	1125	G	Water	N	N	✓	2	
GWA-28	9-10-19	1103	G	Water	N	N	✓	2	
GWA-29	9-10-19	1231	G	Water	N	N	✓	2	
GWC-7	9-10-19	1242	G	Water	N	N	✓	2	
GWC-8	9-10-19	1410	G	Water	N	N	✓	2	
GWC-22	9-10-19	1506	G	Water	N	N	✓	2	
GWC-30	9-10-19	1344	G	Water	N	N	✓	2	
Rep-1	9-10-19	-	G	Water	N	N	✓	2	
FIB-1-9-10-19	9-10-19	1220	G	Water	N	N	✓	2	

Due Date Requested:   
 TAT Requested (days):   
 PO #: SCS10347656  
 WO #:   
 Project #: 40007709  
 SSONW#:   
 Analysis Requested:   
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:   
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

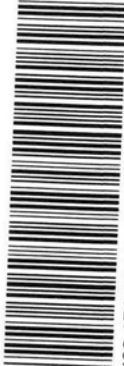
Deliverable Requested:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  Other (specify)   
 Empty Kit Relinquished by:   
 Date:   
 Relinquished by: A. Sams   
 Date: 9-11-19  
 Relinquished by:   
 Date: 9-11-19  
 Relinquished by:   
 Date: 9-11-19

Custody Seals Intact:  Yes  No   
 Custody Seal No.:   
 Cooler Temperature(s) °C and Other Remarks: 0.0°C RB

Relinquished by:	Date:	Company:	Relinquished by:	Date:	Company:	Relinquished by:	Date:	Company:
A. Sams	9-11-19	ACC		9-11-19	1622		9-11-19	1622



**Chain of Custody Record**



400-176250 Chain of Custody

No: 227208.1

Page: Page 1 of 2

Job #: 400-176250-1

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)

Sampler: Lab PM: Bortol, Veronica  
Phone: E-Mail: veronica.bortol@testamericainc.com  
Company: TestAmerica Laboratories, Inc.  
Address: 301 Alpha Drive, RIDC Park, Pittsburgh  
City: Pittsburgh  
State, Zip: PA, 15238  
Phone: 412-963-7058(Tel) 412-963-2468(Fax)  
Email:  
Project Name: CCR - Plant Wansley  
Project #: 18019922  
Site: CCR - Plant Wansley Landfill

Due Date Requested: 9/24/2019  
TAT Requested (days):  
PO #:  
WO #:  
Sample Date: 9/19/19  
Sample Time: 14:55 Eastern  
Sample Date: 9/10/19  
Sample Time: 12:35 Eastern  
Sample Date: 9/10/19  
Sample Time: 11:25 Eastern  
Sample Date: 9/10/19  
Sample Time: 11:03 Eastern  
Sample Date: 9/10/19  
Sample Time: 12:31 Eastern  
Sample Date: 9/10/19  
Sample Time: 10:24 Eastern  
Sample Date: 9/10/19  
Sample Time: 14:10 Eastern  
Sample Date: 9/10/19  
Sample Time: 15:06 Eastern  
Sample Date: 9/10/19  
Sample Time: 13:44 Eastern

Field Filtered Sample (Yes or No)  
Perform MS/MSD (Yes or No)  
60203005A (MOD)  
SbAsBa,BeCd,Cr,Co,CuPbNi,Se,Ag,Tl,V

Analysis Requested

Total Number of Containers

Special Instructions/Note:

Sample Identification - Client ID (Lab ID)

GWA-1 (400-176250-1)  
GWA-2 (400-176250-2)  
GWA-4 (400-176250-3)  
GWA-28 (400-176250-4)  
GWA-29 (400-176250-5)  
GWC-7 (400-176250-6)  
GWC-8 (400-176250-7)  
GWC-22 (400-176250-8)  
GWC-30 (400-176250-9)

Sample Type (C=Comp, G=grab)  
Matrix (W=water, S=solid, O=wastefoil, BT=issue, A=air)

Preservation Code

Sample Date

Sample Time

Sample Date

Sample Time

Sample Date

Sample Time

Sample Date

Sample Time

Sample Date

Sample Time

Sample Date

Sample Time

Sample Date

Sample Time

Sample Date

Sample Time

Sample Date

Sample Time

Sample Date

Sample Time

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

**Possible Hazard Identification**  
Unconfirmed  
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2  
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: \_\_\_\_\_ Time: \_\_\_\_\_ Method of Shipment:  
Relinquished by: \_\_\_\_\_ Date/Time: 9/15/19 1630 Company: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
Cooler Temperature(s) °C and Other Remarks:



**Chain of Custody Record**

<b>Client Information (Sub Contract Lab)</b>		Lab PM: Bortol, Veronica		Carrier Tracking No(s): 400-227208.2	
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com		Page: Page 2 of 2	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 400-176250-1	
Address: 301 Alpha Drive, RIDC Park, Pittsburgh PA, 15238		Due Date Requested: 9/24/2019		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)	
City: Pittsburgh		TAT Requested (days):		<b>Analysis Requested</b>	
PO #: 412-963-7058(Tel) 412-963-2468(Fax)		Field Filtered Sample (Yes or No)		Total Number of Containers	
WO #: Project #: 18019922		Perform MS/MSD (Yes or No)			
Site: CCR - Plant Wansley Landfill		SSOW#:		Special Instructions/Note:	
<b>Sample Identification - Client ID (Lab ID)</b>		Sample Date		Sample Time	
DUP-1 (400-176250-10)		9/10/19		Eastern	
FB-1-9-10-19 (400-176250-11)		9/10/19		12:20 Eastern	
Sample Type (C=Comp, G=grab)		Sample Matrix (W=Water, S=solid, O=soil, B=Trace, A=Air)		Preservation Code:	
		Water		X	
		Water		X	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: Date: Time: Method of Shipment:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:					



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-176250-1

SDG Number: Landfill

**Login Number: 176250**

**List Source: Eurofins TestAmerica, Pensacola**

**List Number: 1**

**Creator: Perez, Trina M**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	N/A	
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	0.0°C IR-8
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").	N/A	
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: 400-176250-1

SDG Number: Landfill

**Login Number: 176250**

**List Number: 2**

**Creator: Say, Thomas C**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Creation: 11/06/19 10:38 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	

**LEVEL 2A LABORATORY DATA VALIDATIONS**

**Plant Wansley Landfill**

**September 2019**



## **Georgia Power Company – Plant Wansley Landfill**

### **Quality Control Review of Analytical Data – September 2019**

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pensacola and Pittsburgh for groundwater, surface water, and wastewater samples collected at Plant Wansley LF between September 9, 2019 and September 17, 2019. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 176250 was revised by the laboratory to correct the reporting limits (RLs) in accordance with project requirements. SDG 95962 was revised by the laboratory to add a target analyte that was missing from the original laboratory report.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), 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)<sup>1</sup> and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)<sup>2</sup>. 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 Zinc and Total Dissolved Solids (TDS) on GWC-6 (180-95726-15) as described in the qualifications section below.

**Accuracy:** Laboratory goals for accuracy were met, with the exception of Beryllium on GWC-21 (180-95726-7) 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.

## QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

**J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

**U:** The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Samples GWC-6 (180-95726-15) and DUP-3 (180-95726-29) were qualified as estimated (J) for Zinc as the field relative percent difference (RPD) exceeded QC criteria (137.9% above limit of 25).

- Samples GWC-6 (180-95726-15) and DUP-3 (180-95726-29) were qualified as estimated (J) for TDS as the field RPD exceeded QC criteria (42.8% above limit of 25).
- Sample GWC-21 (180-95726-7) was qualified as estimated (J) for Beryllium as the associated matrix spike recovery was above the QC criteria (127% above the range of 75-125).
- Certain metals results in SDGs 95726, 95964, 95962, and 95963 were qualified as non-detect (U) due to the specific analytes being detected at similar concentrations in an associated blank sample. As shown in Table 2, when the original sample result was below the RL, the method detection limit (MDL) was raised to the sample result as part of the qualification process. When the original sample result was above the RL, both the RL and MDL were raised to the sample result as part of the qualification process.
- Certain metals results and TDS in SDGs 176250, 95962, and 95963 were qualified as estimated (J) due to the specific analytes being detected at concentrations between the MDL and RL in an associated blank sample and an order of magnitude above the RL in the respective samples.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Wansley LF sampled between September 9, 2019 and September 17, 2019 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

## REFERENCES

<sup>1</sup>USEPA, 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

<sup>2</sup>USEPA, 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 – September 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
95726	GWA-3	9/11/2019	180-95726-1	GW		X	X	X	
95726	GWC-12	9/11/2019	180-95726-2	GW		X	X	X	
95726	GWC-16	9/11/2019	180-95726-3	GW		X	X	X	
95726	GWC-17	9/11/2019	180-95726-4	GW		X	X	X	
95726	GWC-18	9/11/2019	180-95726-5	GW		X	X	X	
95726	GWC-20	9/11/2019	180-95726-6	GW		X	X	X	
95726	GWC-21	9/11/2019	180-95726-7	GW		X	X	X	
95726	GWC-24	9/11/2019	180-95726-8	GW		X	X	X	
95726	GWC-25	9/11/2019	180-95726-9	GW		X	X	X	
95726	GWC-34	9/11/2019	180-95726-10	GW		X	X	X	
95726	DUP-2	9/11/2019	180-95726-11	GW	FD (GWC-24)	X	X	X	
95726	EB-1-9-11-19	9/11/2019	180-95726-12	WQ	EB	X	X	X	
95726	FB-2-9-11-19	9/11/2019	180-95726-13	WQ	FB	X	X	X	
95726	GWC-5	9/12/2019	180-95726-14	GW		X	X	X	
95726	GWC-6	9/12/2019	180-95726-15	GW		X	X	X	
95726	GWC-19	9/12/2019	180-95726-16	GW		X	X	X	
95726	GWC-32	9/12/2019	180-95726-17	GW		X	X	X	
95726	GWC-33	9/12/2019	180-95726-18	GW		X	X	X	
95726	GWC-35	9/12/2019	180-95726-19	GW		X	X	X	
95726	GWC-23	9/12/2019	180-95726-20	GW		X	X	X	
95726	GWC-26	9/12/2019	180-95726-21	GW		X	X	X	
95726	GWC-27	9/12/2019	180-95726-22	GW		X	X	X	
95726	GWC-31	9/11/2019	180-95726-23	GW		X	X	X	
95726	EB-2-9-12-19	9/12/2019	180-95726-24	WQ	EB	X	X	X	
95726	GWC-13	9/12/2019	180-95726-25	GW		X	X	X	
95726	GWC-14	9/12/2019	180-95726-26	GW		X	X	X	
95726	FB-3-9-12-19	9/12/2019	180-95726-27	WQ	FB	X	X	X	
95726	EB-3-9-12-19	9/12/2019	180-95726-28	WQ	EB	X	X	X	
95726	DUP-3	9/12/2019	180-95726-29	GW	FD (GWC-6)	X	X	X	
95964	GWC-9	9/16/2019	180-95964-1	GW		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

WW – Wastewater

TABLE 1 (continued)

Georgia Power Company – Plant Wansley Landfill

Sample Summary Table – September 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
95964	GWC-11	9/16/2019	180-95654-2	GW		X	X	X	
95964	GWC-10	9/17/2019	180-95964-3	GW		X	X	X	
95964	GWC-5	9/17/2019	180-95964-4	GW		X	X	X	
95964	EB-4-9-16-19	9/16/2019	180-95964-5	WQ	EB	X	X	X	
95964	DUP-4	9/16/2019	180-95964-6	GW	FD (GWC-9)	X	X	X	
95964	FB-4-9-17-19	9/17/2019	180-95964-7	WQ	FB	X	X	X	
176250	GWA-1	9/9/2019	400-176250-1	GW		X	X	X	
176250	GWA-2	9/10/2019	400-176250-2	GW		X	X	X	
176250	GWA-4	9/10/2019	400-176250-3	GW		X	X	X	
176250	GWA-28	9/10/2019	400-176250-4	GW		X	X	X	
176250	GWA-29	9/10/2019	400-176250-5	GW		X	X	X	
176250	GWC-7	9/10/2019	400-176250-6	GW		X	X	X	
176250	GWC-8	9/10/2019	400-176250-7	GW		X	X	X	
176250	GWC-22	9/10/2019	400-176250-8	GW		X	X	X	
176250	GWC-30	9/10/2019	400-176250-9	GW		X	X	X	
176250	DUP-1	9/10/2019	400-176250-10	GW	FD (GWA-28)	X	X	X	
176250	FB-1-9-10-19	9/10/2019	400-176250-11	WQ	FB	X	X	X	
95962	SWA-1	9/17/2019	180-95962-1	SW		X	X	X	
95962	SWA-6	9/17/2019	180-95962-2	SW		X	X	X	
95962	SWC-2	9/17/2019	180-95962-3	SW		X	X	X	
95962	SWC-3	9/17/2019	180-95962-4	SW		X	X	X	
95962	SWC-5	9/17/2019	180-95962-5	SW		X	X	X	
95962	SWC-7	9/17/2019	180-95962-6	SW		X	X	X	
95963	EFF UNIT 1	9/17/2019	180-95963-1	WW		X			
95963	EFF UNIT 2	9/17/2019	180-95963-2	WW		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  
 WW – Wastewater

TABLE 2

Georgia Power Company – Plant Wansley Landfill

Qualifier Summary Table – September 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
95726	GWA-3	Nickel	0.0022	0.0022	U	Blank detection
95726	GWC-12	Nickel		0.00088	U	Blank detection
95726	GWC-16	Nickel		0.00077	U	Blank detection
95726	GWC-17	Nickel		0.00092	U	Blank detection
95726	GWC-18	Nickel		0.00066	U	Blank detection
95726	GWC-20	Nickel		0.001	U	Blank detection
95726	GWC-21	Beryllium			J	MS recovery above QC criteria
95726	GWC-21	Zinc	0.0068	0.0068	U	Blank detection
95726	GWC-25	Zinc	0.037	0.037	U	Blank detection
95726	GWC-34	Zinc	0.0068	0.0068	U	Blank detection
95726	GWC-5	Zinc	0.0067	0.0067	U	Blank detection
95726	GWC-6	Zinc	0.049	0.049	U	Blank detection
95726	GWC-19	Zinc	0.0086	0.0086	U	Blank detection
95726	GWC-32	Zinc	0.098	0.098	U	Blank detection
95726	GWC-33	Zinc	0.01	0.01	U	Blank detection
95726	GWC-35	Zinc		0.0045	U	Blank detection
95726	GWC-23	Zinc		0.0042	U	Blank detection
95726	GWC-26	Zinc	0.0059	0.0059	U	Blank detection
95726	GWC-27	Zinc	0.0079	0.0079	U	Blank detection
95726	GWC-31	Zinc	0.081	0.081	U	Blank detection
95726	GWC-13	Zinc	0.0085	0.0085	U	Blank detection
95726	GWC-14	Zinc	0.019	0.019	U	Blank detection
95726	GWC-6	Zinc			J	RPD exceeds field goal
95726	DUP-3	Zinc			J	RPD exceeds field goal
95726	GWC-6	TDS			J	RPD exceeds field goal
95726	DUP-3	TDS			J	RPD exceeds field goal
95964	GWC-9	Cobalt	0.042	0.042	U	Blank detection
95964	GWC-9	Zinc		0.0049	U	Blank detection
95964	GWC-11	Cobalt	0.0034	0.0034	U	Blank detection
95964	GWC-11	Zinc	0.005	0.005	U	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration  
 MS/MSD – Matrix Spike / Matrix Spike Duplicate  
 MDL – Method Detection Limit  
 RL – Reporting Limit  
 RPD – Relative Percent Difference  
 SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result  
 U – Non-Detect Result

TABLE 2 (continued)

Georgia Power Company – Plant Wansley Landfill

Qualifier Summary Table – September 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
95964	GWC-10	Cobalt	0.006	0.006	U	Blank detection
95964	GWC-10	Zinc	0.013	0.013	U	Blank detection
95964	GWC-15	Zinc		0.0041	U	Blank detection
176250	GWA-2	TDS			J	Blank detection above MDL and sample detection above RL
176250	GWA-4	TDS			J	Blank detection above MDL and sample detection above RL
176250	GWA-28	TDS			J	Blank detection above MDL and sample detection above RL
176250	GWA-29	TDS			J	Blank detection above MDL and sample detection above RL
176250	GWC-7	TDS			J	Blank detection above MDL and sample detection above RL
95962	SWA-1	Beryllium		0.00023	U	Blank detection
95962	SWA-1	Cobalt		0.00021	U	Blank detection
95962	SWA-1	Zinc		0.0045	U	Blank detection
95962	SWA-6	Beryllium		0.00027	U	Blank detection
95962	SWA-6	Cobalt		0.00031	U	Blank detection
95962	SWA-6	Zinc	0.0057	0.00057	U	Blank detection
95962	SWC-2	Beryllium		0.00021	U	Blank detection
95962	SWC-2	Cobalt	0.0043	0.0043	U	Blank detection
95962	SWC-2	Zinc	0.0061	0.0061	U	Blank detection
95962	SWC-3	Beryllium		0.00038	U	Blank detection
95962	SWC-3	Cobalt			J	Blank detection above MDL and sample detection above RL
95962	SWC-3	Zinc	0.0064	0.0064	U	Blank detection
95962	SWC-5	Cobalt			J	Blank detection above MDL and sample detection above RL
95962	SWC-5	Zinc	0.011	0.011	U	Blank detection
95962	SWC-7	Cobalt	0.00024	0.00024	U	Blank detection
95962	SWC-7	Zinc	0.0042	0.0042	U	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration  
 MS/MSD – Matrix Spike / Matrix Spike Duplicate  
 MDL – Method Detection Limit  
 RL – Reporting Limit  
 RPD – Relative Percent Difference  
 SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result  
 U – Non-Detect Result

TABLE 2 (continued)

Georgia Power Company – Plant Wansley Landfill

Qualifier Summary Table – September 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
95963	EFF UNIT 1	Beryllium	0.0057	0.0057	U	Blank detection
95963	EFF UNIT 1	Cobalt			J	Blank detection above MDL and sample detection above RL
95963	EFF UNIT 1	Thallium	0.0065	0.0065	U	Blank detection
95963	EFF UNIT 1	Zinc			J	Blank detection above MDL and sample detection above RL
95963	EFF UNIT 2	Beryllium	0.0048	0.0048	U	Blank detection
95963	EFF UNIT 2	Cobalt			J	Blank detection above MDL and sample detection above RL
95963	EFF UNIT 2	Thallium	0.0033	0.0033	U	Blank detection
95963	EFF UNIT 2	Zinc			J	Blank detection above MDL and sample detection above RL

Abbreviations:

MDC – Minimum Detectable Concentration  
 MS/MSD – Matrix Spike / Matrix Spike Duplicate  
 MDL – Method Detection Limit  
 RL – Reporting Limit  
 RPD – Relative Percent Difference  
 SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result  
 U – Non-Detect Result



Product Name: Low-Flow System

Date: 2019-09-17 14:12:36

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type poly  
Tubing Type in  
Tubing Diameter ft  
Tubing Length ft

Pump placement from TOC ft

**Well Information:**

Well ID Effluent Unit 1  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 120 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:11:31	120.05	+/- 0	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5		47.77	5.78	16347.92	1000.00		3.72	95.35
Last 5								
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1413 on 9-17-19. Sunny, 90s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-17 14:20:34

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type poly  
Tubing Type in  
Tubing Diameter ft  
Tubing Length ft

Pump placement from TOC ft

**Well Information:**

Well ID Effluent Unit 2  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 120 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:19:38	120.04	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			46.46	6.02	20190.17	1000.00		3.90	156.67
Last 5			nan	nan	nan	nan		nan	nan
Variance 0			0.00	0.00	0.00	0.00		0.00	0.00
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1420 on 9-17-19. Sunny, 90s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-17 13:29:46

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: Plant Wansley  
Site Name: Plant Wansley - Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 646773  
Turbidity Make/Model: HACH 2100Q

**Pump Information:**

Pump Model/Type: poly in ft  
Tubing Type: poly in ft  
Tubing Diameter: poly in ft  
Tubing Length: poly in ft

Pump placement from TOC: ft

**Well Information:**

Well ID: SWA-1  
Well diameter: in  
Well Total Depth: ft  
Screen Length: ft  
Depth to Water: ft

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 180 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:28:44	180.04	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			31.50	6.94	58.67	3.50		7.80	21.91
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1330 on 9-17-19. Sunny, 90s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-17 11:51:41

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type  
Tubing Type in  
Tubing Diameter ft  
Tubing Length ft  
Pump placement from TOC ft

Well Information:

Well ID SWA-6  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 180 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:50:57	180.03	+/- 0 29.50	+/- 0.1 6.87	+/- 5% 143.13	+/- 0 1.70	--	+/- 10% 8.19	+/- 0 81.74
Last 5									
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

Notes

Sampled at 1145 on 9-17-19. Sunny, 90s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-17 13:05:45

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type poly  
Tubing Type in  
Tubing Diameter ft  
Tubing Length ft  
Pump placement from TOC ft

Well Information:

Well ID SWC-2  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 180 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:04:30	180.04	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			26.65	6.06	324.19	78.00		3.06	32.98
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

Notes

Sampled at 1305 on 9-17-19. Sunny, 90s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-17 12:43:40

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type poly  
Tubing Type in  
Tubing Diameter ft  
Tubing Length ft

Pump placement from TOC ft

**Well Information:**

Well ID SWC-3  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 180 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:42:41	180.04	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			29.17	5.85	372.28	8.20		4.31	42.96
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1244 on 9-17-19. Sunny, 90s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-17 11:36:05

**Project Information:**

Operator Name: Hunter Auld  
Company Name: ACC  
Project Name: Plant Wansley  
Site Name: Plant Wansley - Landfill  
Latitude: 0° 0' 0"  
Longitude: 0° 0' 0"  
Sonde SN: 646773  
Turbidity Make/Model: HACH 2100Q

**Pump Information:**

Pump Model/Type: poly  
Tubing Type: .17 in  
Tubing Diameter: ft  
Tubing Length: ft

Pump placement from TOC: ft

**Well Information:**

Well ID: SWC-5  
Well diameter: in  
Well Total Depth: ft  
Screen Length: ft  
Depth to Water: ft

**Pumping Information:**

Final Pumping Rate: 0 mL/min  
Total System Volume: 0.09 L  
Calculated Sample Rate: 180 sec  
Stabilization Drawdown: 0 in  
Total Volume Pumped: 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:35:08	180.04	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			26.73	5.81	254.22	2.3		6.77	99.90
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan	nan		nan	nan
Variance 1			0.00	0.00	0.00	0.00		0.00	0.00
Variance 2			0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sampled at 1130 on 9-17-19. Sunny, 90s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-17 12:25:26

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type poly  
Tubing Type in  
Tubing Diameter ft  
Tubing Length ft  
Pump placement from TOC ft

**Well Information:**

Well ID SWC-7  
Well diameter in  
Well Total Depth ft  
Screen Length ft  
Depth to Water ft

**Pumping Information:**

Final Pumping Rate 0 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 180 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

**Low-Flow Sampling Stabilization Summary**

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:24:02	180.03	+/- 0	+/- 0.1	+/- 5%	+/- 0	--	+/- 10%	+/- 0
Last 5			28.19	7.08	138.34	1.50		7.55	69.54
Last 5			nan	nan	nan	nan		nan	nan
Last 5			0.00	0.00	0.00	0.00		0.00	0.00
Last 5			0.00	0.00	0.00	0.00		0.00	0.00
Variance 0									
Variance 1									
Variance 2									

**Notes**

Sampled at 1225 on 9-17-19. Sunny, 90s.

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-09-09 14:55:56

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 50 ft  
Pump placement from TOC 45 ft

**Well Information:**

Well ID GWA-1  
Well diameter 2 in  
Well Total Depth 49.85 ft  
Screen Length 10 ft  
Depth to Water 22.92 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.3131711 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 19 in  
Total Volume Pumped 3 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	14:31:24	300.09	5.38	21.89	1.90	24.20	5.57	34.29
Last 5	14:36:24	600.03	5.38	21.65	1.40	24.30	5.60	33.50
Last 5	14:41:27	903.02	5.37	21.86	1.30	24.40	5.48	31.36
Last 5	14:46:27	1203.02	5.38	21.17	1.20	24.50	5.56	31.00
Last 5	14:51:27	1503.03	5.37	21.39	1.60	24.60	5.59	30.17
Variance 0		0.58	-0.01	0.21			-0.12	-2.13
Variance 1		-0.28	0.01	-0.69			0.08	-0.36
Variance 2		-0.00	-0.00	0.22			0.04	-0.83

**Notes**

Sampled at 1455 on 9-9-19. Sunny, 90s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-10 12:36:24

Project Information:

Operator Name Hunter Auld  
 Company Name ACC  
 Project Name Plant Wansley  
 Site Name Plant Wansley - Landfill  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 646773  
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 60 ft  
 Pump placement from TOC 55 ft

Well Information:

Well ID GWA-2  
 Well diameter 2 in  
 Well Total Depth 60.07 ft  
 Screen Length 10 ft  
 Depth to Water 43.41 ft

Pumping Information:

Final Pumping Rate 225 mL/min  
 Total System Volume 0.6578054 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 1.1 in  
 Total Volume Pumped 21.4 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5 12:11:02	4812.03	20.77	5.63	65.74	8.90	43.50	6.59	40.99
Last 5 12:16:03	5113.04	19.41	5.62	66.01	9.20	43.50	6.76	42.46
Last 5 12:21:03	5413.04	19.48	5.63	66.70	7.50	43.50	6.70	42.46
Last 5 12:26:03	5713.03	19.49	5.63	66.66	6.70	43.50	6.79	42.78
Last 5 12:31:03	6013.04	19.55	5.63	66.62	4.50	43.50	6.74	42.84
Variance 0		0.08	0.01	0.69			-0.06	-0.00
Variance 1		0.01	0.01	-0.04			0.09	0.32
Variance 2		0.06	-0.00	-0.04			-0.05	0.05

Notes

Sampled at 1235 on 9-10-19. FB-1-9-10-19 here at 1220.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 10:15:51

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 31 ft  
Pump placement from TOC 27 ft

**Well Information:**

Well ID GWA-3  
Well diameter 2 in  
Well Total Depth 31.16 ft  
Screen Length 10 ft  
Depth to Water 25.72 ft

**Pumping Information:**

Final Pumping Rate 60 mL/min  
Total System Volume 0.5283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 13 in  
Total Volume Pumped 1.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	09:51:20	19.56	5.51	206.03	8.10	26.10	7.82	77.70
Last 5	09:56:20	18.97	5.50	205.44	8.40	26.30	8.01	73.88
Last 5	10:01:20	19.59	5.50	205.43	5.30	26.50	8.06	70.93
Last 5	10:06:20	19.68	5.49	205.16	2.90	26.70	7.98	68.96
Last 5	10:11:20	19.62	5.49	205.48	2.80	26.80	7.91	67.50
Variance 0		0.63	-0.01	-0.01			0.05	-2.95
Variance 1		0.09	-0.01	-0.27			-0.08	-1.97
Variance 2		-0.06	0.00	0.33			-0.07	-1.45

**Notes**

Sampled at 1015 on 9-11-19. Sunny, 80s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-10 14:46:03

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 31 ft  
Pump placement from TOC 26 ft

**Well Information:**

Well ID GWA-3  
Well diameter 2 in  
Well Total Depth 31.16 ft  
Screen Length 10 ft  
Depth to Water 23.87 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.5283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 50 in  
Total Volume Pumped 10 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:25:13	18.84	5.58	208.39	10.60	27.00	5.71	63.08
Last 5	14:30:13	18.79	5.57	200.23	9.30	27.20	5.77	61.83
Last 5	14:35:13	18.87	5.58	198.55	8.50	27.50	5.77	61.72
Last 5	14:40:13	18.88	5.58	198.02	6.40	27.80	5.83	61.66
Last 5	14:45:13	18.97	5.59	201.35	6.50	28.00	5.85	61.94
Variance 0		0.08	0.00	-1.69			0.00	-0.11
Variance 1		0.02	0.00	-0.53			0.06	-0.06
Variance 2		0.09	0.01	3.33			0.02	0.28

**Notes**

No sample, well purged dry. Allow for overnight recharge.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-10 11:28:55

Project Information:

Operator Name Taylor Goble  
 Company Name ACC  
 Project Name Plant Wansley  
 Site Name Plant Wansley-Landfill  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 573204  
 Turbidity Make/Model HACH2100Q

Pump Information:

Pump Model/Type Peristaltic Pump  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 40 ft  
 Pump placement from TOC 35 ft

Well Information:

Well ID GWA-4  
 Well diameter 2 in  
 Well Total Depth 40.61 ft  
 Screen Length 10 ft  
 Depth to Water 23.98 ft

Pumping Information:

Final Pumping Rate 210 mL/min  
 Total System Volume 0.09 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 3 in  
 Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:07:55	1500.01	+/- 0	+/- 0.1	+/- 0		+/- 10%	+/- 0
Last 5	11:12:55	1800.01	18.78	6.17	308.90	24.20	3.46	56.56
Last 5	11:17:55	2100.01	18.60	6.18	298.28	24.20	3.01	54.93
Last 5	11:22:57	2402.01	18.55	6.18	294.15	24.20	0.51	53.75
Last 5	11:27:57	2702.01	18.80	6.18	286.18	24.20	0.30	53.01
Variance 0			18.78	6.18	283.38	24.20	0.30	52.65
Variance 1			-0.05	0.00	-4.13		-2.51	-1.18
Variance 2			0.25	-0.01	-7.98		-0.20	-0.74
			-0.02	0.00	-2.80		-0.01	-0.36

Notes

Sampled at 1128. Sunny 87 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 11:04:30

**Project Information:**

Operator Name Alanna James  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 46.78 ft

Pump placement from TOC 41.00 ft

**Well Information:**

Well ID GWA-28  
Well diameter 2 in  
Well Total Depth 45.78 ft  
Screen Length 10 ft  
Depth to Water 26.05 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.2987989 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 38 in  
Total Volume Pumped 5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	10:38:17	23.52	5.75	50.58	1.84	28.40	5.49	136.23
Last 5	10:43:22	23.63	5.77	50.57	1.77	28.70	5.37	146.12
Last 5	10:48:22	23.82	5.78	50.72	2.86	29.00	5.34	147.94
Last 5	10:53:23	23.88	5.79	50.36	1.64	29.10	5.36	151.93
Last 5	10:58:30	24.24	5.79	50.49	1.87	29.20	5.31	173.12
Variance 0		0.19	0.01	0.15			-0.02	1.82
Variance 1		0.07	0.01	-0.35			0.02	3.98
Variance 2		0.36	-0.00	0.12			-0.05	21.19

**Notes**

Sampled at 1103. Sunny, 80s. DUP-1 here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 12:32:51

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

**Pump Information:**

Pump Model/Type QED Bladder  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 57 ft  
Pump placement from TOC 52 ft

**Well Information:**

Well ID GWA-29  
Well diameter 2 in  
Well Total Depth 57.13 ft  
Screen Length 10 ft  
Depth to Water 47.02 ft

**Pumping Information:**

Final Pumping Rate 200 mL/min  
Total System Volume 0.6444151 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 9.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	1500.02	19.83	5.96	80.15	8.75	47.10	5.37	68.44
Last 5	1800.64	19.91	5.95	81.06	7.19	47.10	5.20	115.01
Last 5	2100.64	19.90	5.95	81.77	6.08	47.10	5.26	208.11
Last 5	2405.64	19.90	5.95	81.53	5.64	47.10	5.19	277.31
Last 5	2705.64	20.02	5.94	81.13	4.89	47.10	5.27	302.26
Variance 0		-0.00	-0.00	0.71			0.06	93.09
Variance 1		-0.00	-0.00	-0.24			-0.07	69.21
Variance 2		0.12	-0.01	-0.41			0.08	24.94

**Notes**

Sampled at 12:31. Sunny, 80's.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-12 12:20:19

**Project Information:**

Operator Name Taylor Goble  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 33° 23' 44.26"  
Longitude -85° -2' -40.43"  
Sonde SN 573204  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type peri Pump  
Tubing Type poly  
Tubing Diameter 0.17 in  
Tubing Length 40 ft  
Pump placement from TOC 35 ft

**Well Information:**

Well ID GWC-5  
Well diameter 2 in  
Well Total Depth 40.68 ft  
Screen Length 10 ft  
Depth to Water 19.81 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.2015856 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 23 in  
Total Volume Pumped 4.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:49:35	21.99	6.38	319.43	6.55	20.95	0.93	+/- 25
Last 5	12:04:35	22.36	6.36	315.33	4.45	21.20	1.10	280.09
Last 5	12:09:35	22.09	6.37	316.21	4.15	21.41	1.07	305.67
Last 5	12:14:35	22.16	6.35	316.92	3.84	21.58	1.02	363.80
Last 5	12:19:37	22.12	6.34	316.43	3.72	21.75	1.10	320.18
Variance 0		-0.27	0.01	0.88			-0.02	324.89
Variance 1		0.07	-0.01	0.70			-0.05	58.14
Variance 2		-0.04	-0.01	-0.48			0.08	-43.63

**Notes**

Sampled at 1219. Sunny 93 degrees

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-09-12 13:50:47

Project Information:

Operator Name Taylor Goble  
 Company Name ACC  
 Project Name Plant Wansley - Landfill  
 Site Name Plant Wansley - Landfill  
 Latitude 33° 23' 44.26"  
 Longitude -85° -2' -40.43"  
 Sonde SN 573204  
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peri Pump  
 Tubing Type poly  
 Tubing Diameter 0.17 in  
 Tubing Length 31 ft  
 Pump placement from TOC 26 ft

Well Information:

Well ID GWC-6  
 Well diameter 2 in  
 Well Total Depth 31.08 ft  
 Screen Length 10 ft  
 Depth to Water 19.66 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
 Total System Volume 0.2015856 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 3 in  
 Total Volume Pumped 6.8 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C +/- 1	pH +/- 0.1	SpCond $\mu$ S/cm Turb NTU +/- 5%	DTW ft	RDO mg/L +/- 10%	ORP mV +/- 25
Last 5 13:30:03	1500.01	22.92	5.99	197.75 1.11	19.97	0.23	166.09
Last 5 13:35:03	1800.01	22.96	5.99	201.78 1.08	19.97	0.22	163.95
Last 5 13:40:04	2101.00	22.57	5.99	207.74 1.27	19.97	0.20	163.16
Last 5 13:45:05	2402.00	22.70	6.00	208.08 1.55	19.98	0.20	163.04
Last 5 13:50:05	2702.00	23.19 -0.40	6.00	213.57 5.97	19.98	0.18	158.50
Variance 0			0.00	0.33		-0.02	-0.78
Variance 1		0.13	0.00	5.49		-0.00	-0.13
Variance 2		0.49	0.00			-0.02	-4.54

Notes

Sampled at 1350. Sunny 95 degrees

Grab Samples

Product Name: Low-Flow System  
 Date: 2019-09-10 12:42:51

**Project Information:**

Operator Name Taylor Goble  
 Company Name ACC  
 Project Name Plant Wansley  
 Site Name Plant Wansley-Landfill  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 573204  
 Turbidity Make/Model HACH2100Q

**Pump Information:**

Pump Model/Type Peristaltic Pump  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 25 ft  
 Pump placement from TOC 20 ft

**Well Information:**

Well ID GWC-7  
 Well diameter 2 in  
 Well Total Depth 25.90 ft  
 Screen Length 10 ft  
 Depth to Water 8.86 ft

**Pumping Information:**

Final Pumping Rate 60 mL/min  
 Total System Volume 0.09 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 26 in  
 Total Volume Pumped 2 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	12:18:41	24.46	6.28	639.40	3.04	9.73	0.26	79.96
Last 5	12:23:52	24.72	6.29	652.93	6.10	10.10	0.21	94.17
Last 5	12:31:04	25.45	6.29	658.21	5.29	10.42	0.19	105.54
Last 5	12:36:10	25.10	6.30	652.05	2.25	10.71	0.17	124.21
Last 5	12:41:10	24.95	6.30	654.31	3.60	11.00	0.15	133.83
Variance 0		0.74	0.00	5.27			-0.02	11.36
Variance 1		-0.35	0.01	-6.16			-0.01	18.68
Variance 2		-0.15	0.00	2.26			-0.02	9.62

**Notes**

Sampled at 1242. Sunny 91 degrees

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-10 14:11:32

**Project Information:**

Operator Name Taylor Goble  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 573204  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type Peri Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 20 ft  
Pump placement from TOC 15 ft

**Well Information:**

Well ID GWC-8  
Well diameter 2 in  
Well Total Depth 20.03 ft  
Screen Length 5 ft  
Depth to Water 10.35 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.1569514 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 12 in  
Total Volume Pumped 3 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:45:21	24.39	6.04	336.70	2.16	10.67	+/- 10%	+/- 0
Last 5	13:50:21	23.13	5.98	343.59	1.40	10.91	0.30	55.44
Last 5	13:55:21	23.62	5.95	350.92	1.25	11.04	0.14	66.91
Last 5	14:00:22	23.64	5.92	355.69	1.86	11.19	0.18	72.43
Last 5	14:10:22	23.87	5.90	362.33	1.51	11.30	0.21	77.74
Variance 0		0.49	-0.03	7.33			0.27	77.49
Variance 1		0.02	-0.03	4.77			0.03	5.52
Variance 2		0.22	-0.02	6.63			0.03	5.31
							0.05	-0.25

**Notes**

Sampled at 1410. Sunny 92 degrees

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-16 13:31:06

Project Information:

Operator Name Hunter Auld  
 Company Name ACC  
 Project Name Plant Wansley - Landfill  
 Site Name Plant Wansley - Landfill  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 646773  
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 19.5 ft  
 Pump placement from TOC 14 ft

Well Information:

Well ID GWC-9  
 Well diameter 2 in  
 Well Total Depth 19.41 ft  
 Screen Length 10 ft  
 Depth to Water 8.11 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
 Total System Volume 0.1770367 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 9.5 in  
 Total Volume Pumped 9.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5 13:04:01	2401.03	26.42	5.71	348.21	6.20	8.80	0.19	45.47
Last 5 13:09:01	2701.03	26.29	5.71	342.57	5.60	8.80	0.19	45.04
Last 5 13:14:01	3001.03	26.56	5.70	337.24	5.30	8.90	0.19	44.46
Last 5 13:19:01	3301.03	26.41	5.70	328.64	5.30	8.90	0.19	44.54
Last 5 13:24:01	3601.03	26.69	5.69	324.87	4.70	8.90	0.18	44.25
Variance 0		0.27	-0.01	-5.33			-0.00	-0.58
Variance 1		-0.15	-0.01	-8.61			-0.00	0.08
Variance 2		0.27	-0.01	-3.77			-0.00	-0.29

Notes

Sampled at 1325 on 9-16-19. Sunny 90s. Dup-4 here. EB-4-9-16-19 at 1205.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-17 10:12:43

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 22 ft

Pump placement from TOC 18 ft

**Well Information:**

Well ID GWC-10  
Well diameter 2 in  
Well Total Depth 22 ft  
Screen Length 10 ft  
Depth to Water 12.59 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.1881953 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 12.1 in  
Total Volume Pumped 1 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:04:43	300.07	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	10:09:43	600.03	5.59	184.26	12.50	13.20	4.29	58.21
Last 5			5.55	178.52	8.40	13.60	3.60	54.63
Last 5			nan	nan	nan	nan	nan	nan
Variance 0		-1.16	-0.04	-5.74			-0.69	-3.57
Variance 1		0.00	0.00	0.00			0.00	0.00
Variance 2								

**Notes**

Sampled at 1010 on 9-17-19. Sunny, 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-16 15:18:38

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 22 ft  
Pump placement from TOC 18 ft

**Well Information:**

Well ID GWC-10  
Well diameter 2 in  
Well Total Depth 22 ft  
Screen Length 10 ft  
Depth to Water 12.30 ft

**Pumping Information:**

Final Pumping Rate 300 mL/min  
Total System Volume 0.1881953 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 92 in  
Total Volume Pumped 7.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:59:13	23.70	5.75	207.48	19.40	14.60	+/- 10%	+/- 0
Last 5	15:04:13	23.75	5.69	211.50	10.60	16.20	0.15	30.98
Last 5	15:09:13	23.43	5.80	249.13	5.70	17.60	0.71	34.60
Last 5	15:14:13	26.51	5.93	214.42	14.40	18.70	0.35	35.94
Last 5							1.26	32.85
Variance 0		0.05	-0.07	4.02			0.56	3.62
Variance 1		-0.32	0.11	37.63			-0.36	1.35
Variance 2		3.08	0.14	-34.71			0.90	-3.09

**Notes**

Well purged dry 9-16-19. Allow for overnight recharge.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-16 14:32:56

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley Landfill  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type peristaltic Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 18 ft  
Pump placement from TOC 13 ft

**Well Information:**

Well ID GWC-11  
Well diameter 2 in  
Well Total Depth 18.23 ft  
Screen Length 10 ft  
Depth to Water 7.42 ft

**Pumping Information:**

Final Pumping Rate 200 mL/min  
Total System Volume 0.1703416 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.2 in  
Total Volume Pumped 6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:08:12	25.93	6.01	433.97	1.60	7.60	0.30	+/- 0
Last 5	14:13:12	26.70	6.03	436.01	4.20	7.60	0.32	20.23
Last 5	14:18:12	27.65	6.05	429.70	4.40	7.60	0.36	3.98
Last 5	14:23:12	27.45	6.07	425.19	4.90	7.60	0.29	-8.49
Last 5	14:28:12	26.55	6.07	434.81	3.10	7.60	0.20	-16.93
Variance 0		0.95	0.02	-6.31			0.05	-23.28
Variance 1		-0.19	0.01	-4.52			-0.07	-12.47
Variance 2		-0.91	0.00	9.62			-0.10	-8.44

**Notes**

Sampled at 1430 on 9-16-19. Sunny, 90s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-11 10:22:35

**Project Information:**

Operator Name Taylor Goble  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 33° 23' 44.26"  
Longitude -85° -2' -40.43"  
Sonde SN 573204  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type peri Pump  
Tubing Type poly  
Tubing Diameter 0.17 in  
Tubing Length 40 ft  
  
Pump placement from TOC 35 ft

**Well Information:**

Well ID GWC-12  
Well diameter 2 in  
Well Total Depth 40.63 ft  
Screen Length 5 ft  
Depth to Water 27.02 ft

**Pumping Information:**

Final Pumping Rate 60 mL/min  
Total System Volume 0.2239027 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 24 in  
Total Volume Pumped 2.1 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:01:44	20.47	7.47	324.22	1.11	28.40	1.00	+/- 25
Last 5	10:06:44	21.07	7.46	324.24	1.47	28.55	0.97	137.14
Last 5	10:11:44	21.32	7.47	322.06	1.30	28.71	0.80	140.13
Last 5	10:16:44	21.18	7.47	322.44	1.31	28.89	0.74	143.77
Last 5	10:21:44	21.05	7.47	321.80	1.22	29.03	0.70	147.73
Variance 0		0.25	0.00	-2.18			-0.17	151.12
Variance 1		-0.14	-0.00	0.38			-0.06	3.64
Variance 2		-0.13	0.00	-0.64			-0.05	3.96

**Notes**

Sampled at 1021. Sunny 80 degrees

**Grab Samples**



Product Name: Low-Flow System

Date: 2019-09-12 13:41:52

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 90 ft  
Pump placement from TOC 85 ft

**Well Information:**

Well ID GWC-13  
Well diameter 2 in  
Well Total Depth 90.42 ft  
Screen Length 10 ft  
Depth to Water 6.87 ft

**Pumping Information:**

Final Pumping Rate 260 mL/min  
Total System Volume 0.491708 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 10 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:16:09	21.49	6.68	61.33	0.64	7.00	3.72	83.22
Last 5	13:26:10	21.78	6.71	61.34	0.58	7.00	3.68	82.64
Last 5	13:31:10	21.95	6.72	61.31	0.60	7.00	3.67	82.32
Last 5	13:36:10	22.09	6.73	60.82	0.43	7.00	3.62	82.36
Last 5	13:41:10	22.27	6.73	60.64	0.44	7.00	3.60	83.16
Variance 0		0.18	0.01	-0.02			-0.01	-0.32
Variance 1		0.13	0.01	-0.50			-0.05	0.04
Variance 2		0.18	0.00	-0.18			-0.01	0.80

**Notes**

Sampled at 13:41. Sunny, 90's.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-12 14:41:44

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 24 ft  
Pump placement from TOC 19 ft

**Well Information:**

Well ID GWC-14  
Well diameter 2 in  
Well Total Depth 24.55 ft  
Screen Length 10 ft  
Depth to Water 10.21 ft

**Pumping Information:**

Final Pumping Rate 200 mL/min  
Total System Volume 0.1971222 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 6.75 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	14:20:43	23.52	4.93	653.97	10.60	10.40	0.25	79.51
Last 5	14:25:43	23.53	4.92	652.50	8.86	10.40	0.20	80.06
Last 5	14:30:43	23.61	4.91	648.21	7.19	10.40	0.17	80.26
Last 5	14:35:43	23.63	4.91	651.82	7.54	10.40	0.15	78.17
Last 5	14:40:43	24.06	4.92	638.20	4.66	10.40	0.16	76.38
Variance 0		0.08	-0.01	-4.28			-0.03	0.19
Variance 1		0.02	-0.00	3.61			-0.02	-2.09
Variance 2		0.43	0.01	-13.62			0.01	-1.79

**Notes**

Sampled at 14:40. Sunny, 90's.

Grab Samples

Product Name: Low-Flow System  
 Date: 2019-09-17 11:03:15

**Project Information:**

Operator Name: Hunter Auld  
 Company Name: ACC  
 Project Name: Plant Wansley  
 Site Name: Plant Wansley - Landfill  
 Latitude: 0° 0' 0"  
 Longitude: 0° 0' 0"  
 Sonde SN: 646773  
 Turbidity Make/Model: HACH 2100Q

**Pump Information:**

Pump Model/Type: peristaltic Pump  
 Tubing Type: poly  
 Tubing Diameter: .17 in  
 Tubing Length: 51 ft  
 Pump placement from TOC: 46 ft

**Well Information:**

Well ID: GWC-15  
 Well diameter: 2 in  
 Well Total Depth: 51.06 ft  
 Screen Length: 10 ft  
 Depth to Water: 7.5 ft

**Pumping Information:**

Final Pumping Rate: 200 mL/min  
 Total System Volume: 0.3176346 L  
 Calculated Sample Rate: 300 sec  
 Stabilization Drawdown: 1.2 in  
 Total Volume Pumped: 5.4 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	10:39:45	20.70	6.52	96.12	1.30	7.60	3.78	50.61
Last 5	10:44:45	20.53	6.53	95.80	0.80	7.60	3.76	50.18
Last 5	10:50:29	20.56	6.53	96.22	0.70	7.60	3.75	49.94
Last 5	10:55:29	20.68	6.53	96.16	1.20	7.60	3.72	49.74
Last 5	11:00:29	20.66	6.54	95.67	1.30	7.60	3.69	49.45
Variance 0		0.04	-0.00	0.42			-0.01	-0.24
Variance 1		0.12	0.00	-0.06			-0.04	-0.20
Variance 2		-0.02	0.00	-0.50			-0.03	-0.29

**Notes**

Sampled at 1102 on 9-17-19. Sunny, 80s. FB-4-9-17-19 here at 1040.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-11 11:37:00

**Project Information:**

Operator Name Taylor Goble  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 33° 23' 44.26"  
Longitude -85° -2' -40.43"  
Sonde SN 573204  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type peri Pump  
Tubing Type poly  
Tubing Diameter 0.17 in  
Tubing Length 26 ft

Pump placement from TOC 21 ft

**Well Information:**

Well ID GWC-16  
Well diameter 2 in  
Well Total Depth 26.97 ft  
Screen Length 10 ft  
Depth to Water 12.21 ft

**Pumping Information:**

Final Pumping Rate 160 mL/min  
Total System Volume 0.1569514 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 5.6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C +/- 1	pH +/- 0.1	SpCond µS/cm +/- 5%	Turb NTU +/- 0	DTW ft	RDO mg/L +/- 10%	ORP mV +/- 25
Last 5 11:16:08	900.01	20.07	6.26	98.43	1.10	12.32	3.40	176.73
Last 5 11:21:21	1213.01	20.25	6.24	97.85	1.07	12.32	3.32	193.64
Last 5 11:26:21	1513.01	20.19	6.23	98.39	1.36	12.32	3.28	206.30
Last 5 11:31:22	1814.01	20.20	6.23	98.24	2.23	12.32	3.26	218.79
Last 5 11:36:22	2114.01	20.31	6.22	98.16	2.48	12.32	3.32	229.80
Variance 0		-0.06	-0.01	0.54			-0.04	12.66
Variance 1		0.02	0.00	-0.14			-0.02	12.49
Variance 2		0.11	-0.01	-0.09			0.05	11.01

**Notes**

Sampled at 1136. Sunny 86 degrees

Grab Samples

Product Name: Low-Flow System  
 Date: 2019-09-11 13:09:41

**Project Information:**

Operator Name Taylor Goble  
 Company Name ACC  
 Project Name Plant Wansley - Landfill  
 Site Name Plant Wansley - Landfill  
 Latitude 33° 23' 44.26"  
 Longitude -85° -2' -40.43"  
 Sonde SN 573204  
 Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type peri Pump  
 Tubing Type poly  
 Tubing Diameter 0.17 in  
 Tubing Length 53 ft  
 Pump placement from TOC 48 ft

**Well Information:**

Well ID GWC-17  
 Well diameter 2 in  
 Well Total Depth 53.34 ft  
 Screen Length 10 ft  
 Depth to Water 22.21 ft

**Pumping Information:**

Final Pumping Rate 120 mL/min  
 Total System Volume 0.2239027 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 20 in  
 Total Volume Pumped 3.6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5 12:48:49	600.02	21.29	6.42	105.69	1.31	24.00	4.17	387.05
Last 5 12:53:49	900.02	21.53	6.41	106.47	2.64	24.02	4.21	380.54
Last 5 12:58:49	1200.02	21.60	6.41	106.03	2.37	24.05	4.19	358.18
Last 5 13:03:49	1500.01	21.49	6.40	106.85	1.90	24.05	4.23	331.55
Last 5 13:08:49	1800.01	21.85	6.39	106.69	1.72	24.05	4.18	319.43
Variance 0		0.07	-0.00	-0.44			-0.02	-22.35
Variance 1		-0.11	-0.01	0.82			0.03	-26.63
Variance 2		0.36	-0.00	-0.16			-0.05	-12.13

**Notes**

Sampled at 1308. Sunny 91 degrees

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-11 14:12:13

Project Information:

Operator Name Taylor Goble  
 Company Name ACC  
 Project Name Plant Wansley - Landfill  
 Site Name Plant Wansley - Landfill  
 Latitude 33° 23' 44.26"  
 Longitude -85° -2' -40.43"  
 Sonde SN 573204  
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peri Pump  
 Tubing Type poly  
 Tubing Diameter 0.17 in  
 Tubing Length 30 ft  
 Pump placement from TOC 25 ft

Well Information:

Well ID GWC-18  
 Well diameter 2 in  
 Well Total Depth 30.51 ft  
 Screen Length 10 ft  
 Depth to Water 17.41 ft

Pumping Information:

Final Pumping Rate 120 mL/min  
 Total System Volume 0.2015856 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 1 in  
 Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	13:46:42	600.02	19.24	6.03	93.89	1.63	17.50	0.66	275.64
Last 5	13:51:42	900.01	19.17	6.02	94.15	1.45	17.50	0.68	263.69
Last 5	13:56:42	1200.01	19.00	6.02	94.38	1.20	17.50	0.64	249.42
Last 5	14:01:42	1500.01	18.78	6.02	93.99	1.17	17.50	0.59	248.86
Last 5	14:06:47	1805.00	19.14	6.02	94.56	1.08	17.50	0.55	245.17
Variance 0			-0.17	0.00	0.23			-0.04	-14.27
Variance 1			-0.22	-0.00	-0.39			-0.05	-0.55
Variance 2			0.36	-0.00	0.57			-0.05	-3.69

Notes

Sampled at 1411. Sunny 93 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 10:29:44

Project Information:

Operator Name Taylor Goble  
 Company Name ACC  
 Project Name Plant Wansley - Landfill  
 Site Name Plant Wansley - Landfill  
 Latitude 33° 23' 44.26"  
 Longitude -85° -2' -40.43"  
 Sonde SN 573204  
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peri Pump  
 Tubing Type poly  
 Tubing Diameter 0.17 in  
 Tubing Length 38 ft  
 Pump placement from TOC 33 ft

Well Information:

Well ID GWC-19  
 Well diameter 2 in  
 Well Total Depth 38.56 ft  
 Screen Length 10 ft  
 Depth to Water 11.99 ft

Pumping Information:

Final Pumping Rate 130 mL/min  
 Total System Volume 0.1792685 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 13 in  
 Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C +/- 1	pH +/- 0.1	SpCond µS/cm +/- 5%	Turb NTU +/- 0	DTW ft	RDO mg/L +/- 10%	ORP mV +/- 25
Last 5 10:09:09	900.01	19.08	5.93	75.87	1.89	12.98	0.46	144.69
Last 5 10:14:09	1200.01	18.82	5.94	75.17	1.79	13.09	0.44	145.64
Last 5 10:19:09	1500.00	18.86	5.93	75.01	1.55	13.17	0.38	146.59
Last 5 10:24:09	1800.00	18.66	5.93	75.28	1.32	13.22	0.37	148.34
Last 5 10:29:09	2099.99	18.78	5.92	74.90	1.38	13.23	0.38	150.19
Variance 0		0.04	-0.01	-0.15			-0.06	0.95
Variance 1		-0.20	0.00	0.26			-0.01	1.75
Variance 2		0.12	-0.01	-0.38			0.01	1.85

Notes

Sampled at 1029. Sunny 82 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 13:41:02

Project Information:

Operator Name Alanna James  
Company Name ACC  
Project Name Plant Wansley-Landfill  
Site Name Plant Wansley-Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 71.08 ft  
Pump placement from TOC 66.00 ft

Well Information:

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth 71.08 ft  
Screen Length 10 ft  
Depth to Water 7.55 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4072601 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:11:41	21.41	6.28	98.36	1.95	7.80	+/- 0.3	+/- 10
Last 5	13:16:42	21.29	6.28	98.41	2.07	7.80	2.68	118.94
Last 5	13:26:42	21.13	6.27	98.07	1.20	7.80	2.23	117.10
Last 5	13:31:42	21.20	6.27	97.83	1.46	7.80	1.82	121.11
Last 5	13:36:44	21.18	6.27	98.19	1.10	7.80	1.74	118.54
Variance 0		-0.16	-0.01	-0.34			1.71	128.51
Variance 1		0.06	-0.00	-0.24			-0.41	4.01
Variance 2		-0.02	0.00	0.36			-0.08	-2.56

Notes

Sampled at 1338. Sunny, 80s.

Grab Samples



Product Name: Low-Flow System

Date: 2019-09-11 11:21:33

**Project Information:**

Operator Name Alanna James  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 38.30 ft  
  
Pump placement from TOC 33.00 ft

**Well Information:**

Well ID GWC-21  
Well diameter 2 in  
Well Total Depth 38.30 ft  
Screen Length 10 ft  
Depth to Water 17.41 ft

**Pumping Information:**

Final Pumping Rate 125 mL/min  
Total System Volume 0.2609491 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 34 in  
Total Volume Pumped 5.6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	10:40:52	18.96	5.67	50.66	1.99	20.90	0.15	81.13
Last 5	10:45:52	19.23	5.68	50.63	2.00	20.60	0.18	77.74
Last 5	10:55:52	19.51	5.69	49.76	0.96	20.30	0.16	80.91
Last 5	11:00:53	19.52	5.70	50.03	1.33	20.30	0.16	81.42
Last 5	11:11:02	19.50	5.71	49.20	2.02	20.30	0.15	85.34
Variance 0		0.27	0.02	-0.87			-0.01	3.17
Variance 1		0.01	0.00	0.27			-0.00	0.51
Variance 2		-0.01	0.01	-0.83			-0.01	3.92

**Notes**

Sampled at 1115. Sunny, 80s. FB-2-9-11-19 sampled at 1130.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-10 15:09:44

**Project Information:**

Operator Name Alanna James  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 466058  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 77.15 ft  
  
Pump placement from TOC 72.00 ft

**Well Information:**

Well ID GWC-22  
Well diameter 2 in  
Well Total Depth 77.15 ft  
Screen Length 10 ft  
Depth to Water 25.27 ft

**Pumping Information:**

Final Pumping Rate 150 mL/min  
Total System Volume 0.4343531 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10 in  
Total Volume Pumped 4.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:38:39	19.59	6.44	106.88	1.65	26.10	4.81	115.56
Last 5	14:48:39	20.42	6.45	105.63	1.27	26.10	4.84	108.77
Last 5	14:53:39	20.27	6.44	106.70	1.95	26.10	4.81	106.84
Last 5	14:58:40	20.22	6.45	106.43	1.85	26.10	4.75	106.22
Last 5	15:03:40	20.15	6.44	106.12	1.66	26.10	4.72	106.13
Variance 0		-0.15	-0.01	1.08			-0.02	-1.93
Variance 1		-0.05	0.01	-0.27			-0.07	-0.62
Variance 2		-0.07	-0.01	-0.31			-0.03	-0.09

**Notes**

Sampled at 1506. Sunny, 90s.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-12 12:25:44

Project Information:

Operator Name Hunter Auld  
 Company Name ACC  
 Project Name Plant Wansley - Landfill  
 Site Name Plant Wansley - Landfill  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 646773  
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 68 ft  
 Pump placement from TOC 63 ft

Well Information:

Well ID GWC-23  
 Well diameter 2 in  
 Well Total Depth 68.05 ft  
 Screen Length 10 ft  
 Depth to Water 36.08 ft

Pumping Information:

Final Pumping Rate 175 mL/min  
 Total System Volume 0.6935128 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 14.6 in  
 Total Volume Pumped 21 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	12:02:50	20.93	5.92	48.69	8.20	37.30	5.17	36.33
Last 5	12:07:54	20.80	5.92	49.10	6.70	37.30	5.05	36.55
Last 5	12:12:54	20.62	5.93	48.92	5.80	37.30	5.07	36.44
Last 5	12:17:54	20.86	5.92	49.41	5.20	37.30	5.05	36.06
Last 5	12:22:54	21.64	5.93	48.41	4.70	37.30	4.97	35.63
Variance 0		-0.18	0.00	-0.17			0.02	-0.11
Variance 1		0.24	-0.00	0.48			-0.02	-0.39
Variance 2		0.78	0.01	-1.00			-0.08	-0.43

Notes

Sampled at 1225 on 9-12-19. Sunny, 90. EB-2-9-12-19 @ 0940, peri Pump.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 13:44:11

**Project Information:**

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

**Pump Information:**

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 52 ft  
Pump placement from TOC 46.5 ft

**Well Information:**

Well ID GWC-24  
Well diameter 2 in  
Well Total Depth 51.05 ft  
Screen Length 10 ft  
Depth to Water 41.54 ft

**Pumping Information:**

Final Pumping Rate 120 mL/min  
Total System Volume 0.622098 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 58.3 in  
Total Volume Pumped 18.6 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:19:13	23.72	5.29	38.95	1.10	46.00	5.68	21.28
Last 5	13:24:13	23.52	5.28	37.59	1.20	46.10	5.66	22.59
Last 5	13:29:13	23.49	5.19	35.29	4.70	46.20	5.75	21.91
Last 5	13:34:14	23.54	5.19	35.52	4.40	46.30	5.81	21.13
Last 5	13:39:14	23.65	5.21	36.09	4.60	46.40	5.78	20.80
Variance 0		-0.04	-0.08	-2.30			0.09	-0.68
Variance 1		0.05	-0.00	0.23			0.06	-0.79
Variance 2		0.11	0.02	0.57			-0.02	-0.33

**Notes**

Sampled at 1340 on 9-11-19. Sunny, 90s. Dup-2 here.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-11 15:40:02

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 61 ft  
Pump placement from TOC 56.5 ft

Well Information:

Well ID GWC-25  
Well diameter 2 in  
Well Total Depth 61.23 ft  
Screen Length 10 ft  
Depth to Water 49.68 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.6622688 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 8.6 in  
Total Volume Pumped 6.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	15:15:24	21.48	6.19	88.42	7.90	50.10	6.22	42.94
Last 5	15:20:24	21.39	6.09	92.93	5.40	50.20	6.22	44.09
Last 5	15:25:24	22.27	6.02	94.45	4.70	50.30	6.08	43.88
Last 5	15:30:24	22.67	5.98	94.71	4.30	50.40	6.12	44.32
Last 5	15:35:24	22.67	5.99	95.76	3.70	50.40	5.90	44.84
Variance 0		0.88	-0.08	1.53			-0.14	-0.21
Variance 1		0.41	-0.04	0.25			0.04	0.44
Variance 2		-0.00	0.01	1.05			-0.22	0.52

Notes

Sampled at 1540 on 9-11-19. Sunny, 90s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 13:36:19

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 59 ft  
Pump placement from TOC 54 ft

Well Information:

Well ID GWC-26  
Well diameter 2 in  
Well Total Depth 59.43 ft  
Screen Length 10 ft  
Depth to Water 28.16 ft

Pumping Information:

Final Pumping Rate 60 mL/min  
Total System Volume 0.6533419 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 8.9 in  
Total Volume Pumped 1.8 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:10:04	26.70	5.70	53.47	19.50	28.40	6.57	40.89
Last 5	13:15:04	25.42	5.64	52.62	12.50	28.60	6.54	41.46
Last 5	13:20:04	25.29	5.63	52.84	8.30	28.70	6.42	41.80
Last 5	13:25:04	25.60	5.63	52.79	7.90	28.80	6.35	42.04
Last 5	13:30:17	25.18	5.63	52.51	4.50	28.90	6.32	42.81
Variance 0		-0.13	-0.01	0.22			-0.12	0.34
Variance 1		0.31	-0.00	-0.05			-0.08	0.24
Variance 2		-0.42	-0.00	-0.28			-0.03	0.77

Notes

Sampled at 1335 on 9-12-19. Sunny, 90s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 14:36:06

Project Information:

Operator Name Hunter Auld  
Company Name ACC  
Project Name Plant Wansley - Landfill  
Site Name Plant Wansley - Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 71 ft  
Pump placement from TOC 65 ft

Well Information:

Well ID GWC-27  
Well diameter 2 in  
Well Total Depth 70.83 ft  
Screen Length 10 ft  
Depth to Water 43.26 ft

Pumping Information:

Final Pumping Rate 80 mL/min  
Total System Volume 0.7069031 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 13.7 in  
Total Volume Pumped 2.4 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	14:13:50	22.79	5.36	35.62	11.20	43.80	3.50	56.59
Last 5	14:18:50	21.64	5.35	35.88	6.70	44.10	3.43	57.64
Last 5	14:23:50	22.00	5.35	35.63	4.30	44.20	3.36	57.90
Last 5	14:28:50	22.04	5.36	36.06	3.10	44.30	3.40	57.98
Last 5	14:33:50	21.84	5.36	35.98	2.70	44.40	3.42	58.38
Variance 0		0.36	0.01	-0.25			-0.07	0.26
Variance 1		0.04	0.01	0.43			0.04	0.08
Variance 2		-0.20	-0.00	-0.08			0.02	0.40

Notes

Sampled at 1435 on 9-12-19. Sunny, 90s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 13:45:56

Project Information:

Operator Name Ryan Walker  
 Company Name ACC  
 Project Name Plant Wansley  
 Site Name Plant Wansley Landfill  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 440279  
 Turbidity Make/Model Hatch 2100Q

Pump Information:

Pump Model/Type QED Bladder  
 Tubing Type poly  
 Tubing Diameter .17 in  
 Tubing Length 49 ft  
 Pump placement from TOC 45 ft

Well Information:

Well ID GWC-30  
 Well diameter 2 in  
 Well Total Depth 49.58 ft  
 Screen Length 10 ft  
 Depth to Water 28.45 ft

Pumping Information:

Final Pumping Rate 130 mL/min  
 Total System Volume 0.6087078 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 22 in  
 Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	13:24:26	22.17	6.61	52.89	0.35	30.20	6.90	51.96
Last 5	13:29:26	21.93	6.63	52.54	0.31	30.30	6.99	53.31
Last 5	13:34:26	22.30	6.64	52.54	0.38	30.30	6.82	55.21
Last 5	13:39:26	22.37	6.64	52.29	0.42	30.30	6.70	56.08
Last 5	13:44:27	22.09	6.63	52.51	0.42	30.30	6.93	57.65
Variance 0		0.37	0.01	0.00			-0.17	1.90
Variance 1		0.07	0.00	-0.25			-0.13	0.87
Variance 2		-0.28	-0.01	0.22			0.23	1.57

Notes

Sampled at 13:44. Sunny, 90's.

Grab Samples



Product Name: Low-Flow System

Date: 2019-09-10 15:47:42

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

**Pump Information:**

Pump Model/Type QED Bladder  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 38 ft  
Pump placement from TOC 36 ft

**Well Information:**

Well ID GWC-31  
Well diameter 2 in  
Well Total Depth 38.02 ft  
Screen Length 10 ft  
Depth to Water 34.48 ft

**Pumping Information:**

Final Pumping Rate 80 mL/min  
Total System Volume 0.5596101 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 26 in  
Total Volume Pumped 3.25 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	15:25:57	900.54	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	15:30:57	1200.54	6.14	130.12	22.30	35.40	6.08	51.96
Last 5	15:35:57	1500.54	6.14	129.29	21.50	35.70	6.16	54.90
Last 5	15:40:57	1800.54	6.12	129.47	19.30	36.10	6.28	57.13
Last 5	15:45:57	2100.54	6.12	128.08	12.50	36.70	6.17	59.06
Variance 0			6.11	129.68	9.19	0.00	5.87	60.12
Variance 1			-0.01	0.18			0.12	2.23
Variance 2			-0.40	-1.39			-0.11	1.93
			-0.26	1.61			-0.30	1.06

**Notes**

Well purged dry. Not sampled.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-11 10:00:48

Project Information:

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

Pump Information:

Pump Model/Type QED Bladder  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 38 ft  
Pump placement from TOC 37 ft

Well Information:

Well ID GWC-31  
Well diameter 2 in  
Well Total Depth 38.02 ft  
Screen Length 10 ft  
Depth to Water 36.60 ft

Pumping Information:

Final Pumping Rate 80 mL/min  
Total System Volume 0.5596101 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 0.4 L

Low-Flow Sampling Stabilization Summary

Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization	10:00:00	300.15	+/- 0.1	+/- 5%	+/- 10	36.90	+/- 0.3	+/- 10
Last 5		25.57	6.34	160.82	9.98		7.31	78.82
Last 5								
Last 5								
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00	0.00		0.00	0.00

Notes

Well purged dry 9/10/2019. Sampled at 10:00 9/11/2019. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 11:42:05

Project Information:

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

Pump Information:

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 31 ft  
Pump placement from TOC 30 ft

Well Information:

Well ID GWC-32  
Well diameter 2 in  
Well Total Depth 31.05 ft  
Screen Length 10 ft  
Depth to Water 25.93 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.2283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 38 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:16:32	22.27	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	11:21:32	21.64	6.03	107.35	0.61	27.80	6.55	102.97
Last 5	11:26:32	21.62	6.04	109.69	0.35	28.20	7.06	103.81
Last 5	11:31:32	21.73	6.01	110.66	0.26	28.40	6.81	105.70
Last 5	11:36:32	22.18	6.03	110.18	0.20	28.60	6.71	106.52
Variance 0		-0.02	6.01	111.43	0.21	28.80	6.34	107.11
Variance 1		0.11	-0.03	0.97			-0.25	1.89
Variance 2		0.45	0.01	-0.48			-0.10	0.82
			-0.02	1.25			-0.37	0.60

Notes

Well purged dry. Not sampled.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 10:21:02

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 31 ft  
Pump placement from TOC 29 ft

**Well Information:**

Well ID GWC-32  
Well diameter 2 in  
Well Total Depth 31.05 ft  
Screen Length 10 ft  
Depth to Water 26.28 ft

**Pumping Information:**

Final Pumping Rate 100 mL/min  
Total System Volume 0.2283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 0.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:20:09	300.14	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5		28.22	6.08	161.96	1.84	26.50	2.28	118.80
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		0.00	0.00	0.00	0.00		0.00	0.00
Variance 2		0.00	0.00	0.00	0.00		0.00	0.00

**Notes**

Sample purged dry 9/11/2019. Sampled at 10:20. Sunny, 80's.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-11 14:36:03

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 23 ft  
Pump placement from TOC 18 ft

**Well Information:**

Well ID GWC-33  
Well diameter 2 in  
Well Total Depth 23.99 ft  
Screen Length 10 ft  
Depth to Water 13.77 ft

**Pumping Information:**

Final Pumping Rate 250 mL/min  
Total System Volume 0.1926587 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 110 in  
Total Volume Pumped 20 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:14:16	7500.84	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	14:19:16	7800.84	6.25	158.04	0.81	22.70	5.65	105.38
Last 5	14:24:16	8100.71	6.27	156.26	0.63	22.90	5.48	105.99
Last 5	14:29:19	8403.71	6.24	158.05	0.55	23.10	5.38	107.60
Last 5	14:34:23	8707.71	6.27	157.39	0.72	23.20	5.23	107.67
Variance 0		0.11	6.21	153.42	0.72	23.40	5.66	113.18
Variance 1		0.54	-0.02	1.80			-0.10	1.61
Variance 2		0.58	0.03	-0.66			-0.15	0.07
			-0.06	-3.97			0.43	5.52

**Notes**

Well purged dry. Not sampled.

**Grab Samples**

Product Name: Low-Flow System

Date: 2019-09-12 11:15:05

Project Information:

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

Pump Information:

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 23 ft  
Pump placement from TOC 22 ft

Well Information:

Well ID GWC-33  
Well diameter 2 in  
Well Total Depth 23.99 ft  
Screen Length 10 ft  
Depth to Water 22.50 ft

Pumping Information:

Final Pumping Rate 80 mL/min  
Total System Volume 0.1926587 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4 in  
Total Volume Pumped 0.8 L

Low-Flow Sampling Stabilization Summary

Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	11:08:55	29.06	6.57	150.43	58.50	22.80	5.70	107.03
Last 5	11:13:55	23.30	6.50	147.14	9.39	22.90	7.17	103.71
Last 5								
Last 5								
Variance 0		nan	nan	nan	nan		nan	nan
Variance 1		-5.76	-0.07	-3.29			1.47	-3.31
Variance 2		0.00	0.00	0.00			0.00	0.00

Notes

Well purged dry 9/12/2019. Sampled at 11:13. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 15:24:33

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 51 ft  
Pump placement from TOC 46 ft

**Well Information:**

Well ID GWC-34  
Well diameter 2 in  
Well Total Depth 51.25 ft  
Screen Length 10 ft  
Depth to Water 5.18 ft

**Pumping Information:**

Final Pumping Rate 240 mL/min  
Total System Volume 0.3176346 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	15:03:58	23.48	6.00	56.99	1.03	5.40	0.99	101.06
Last 5	15:08:58	23.14	5.95	56.84	0.97	5.40	1.05	101.51
Last 5	15:13:58	23.15	5.94	56.43	0.94	5.40	1.15	100.07
Last 5	15:18:58	22.92	5.93	56.92	0.94	5.40	1.34	99.27
Last 5	15:23:58	23.04	5.92	56.72	0.91	5.40	1.40	98.47
Variance 0		0.01	-0.01	-0.41			0.10	-1.44
Variance 1		-0.23	-0.02	0.49			0.19	-0.80
Variance 2		0.12	-0.01	-0.20			0.06	-0.80

**Notes**

Sampled at 15:24. Sunny, 90's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 12:20:56

**Project Information:**

Operator Name Ryan Walker  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley Landfill  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model Hatch 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 40 ft  
Pump placement from TOC 35 ft

**Well Information:**

Well ID GWC-35  
Well diameter 2 in  
Well Total Depth 40.78 ft  
Screen Length 10 ft  
Depth to Water 8.62 ft

**Pumping Information:**

Final Pumping Rate 250 mL/min  
Total System Volume 0.2685369 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 7 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:00:22	900.49	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	12:05:22	1200.49	5.82	49.32	0.54	8.70	2.40	89.68
Last 5	12:10:22	1500.49	5.77	48.68	0.53	8.70	2.40	94.54
Last 5	12:15:22	1800.49	5.73	48.81	0.47	8.70	2.45	95.81
Last 5	12:20:22	2100.49	5.70	48.50	0.69	8.70	2.46	94.97
Variance 0		-0.27	5.68	48.42	0.37	8.70	2.46	94.16
Variance 1		0.06	-0.04	0.13			0.05	1.27
Variance 2		-0.31	-0.03	-0.31			0.02	-0.84
			-0.02	-0.08			-0.01	-0.81

**Notes**

Sampled at 12:20. Sunny, 90's.

**Grab Samples**



## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-100999-1  
Client Project/Site: CCR - Plant Wansley

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
1/23/2020 3:49:41 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

Job ID: 180-100999-1

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**Job ID: 180-100999-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

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**Job Narrative**  
**180-100999-1**

## Comments

No additional comments.

## Receipt

The samples were received on 1/15/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

## Metals

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

Job ID: 180-100999-1

## 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)
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

Job ID: 180-100999-1

## 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
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	04-01-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
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	01-31-20
Wisconsin	State	998027800	08-31-20

# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 180-100999-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-100999-1	GWC-8	Water	01/13/20 13:43	01/15/20 09:00	
180-100999-2	GWC-25	Water	01/14/20 10:35	01/15/20 09:00	
180-100999-3	GWC-31	Water	01/14/20 11:40	01/15/20 09:00	
180-100999-4	GWC-32	Water	01/14/20 12:20	01/15/20 09:00	

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# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 180-100999-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

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

Job ID: 180-100999-1

## Client Sample ID: GWC-8

Date Collected: 01/13/20 13:43

Date Received: 01/15/20 09:00

## Lab Sample ID: 180-100999-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	304190	01/16/20 13:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			304323	01/17/20 14:16	NAM	TAL PIT
Instrument ID: HGZ										

## Client Sample ID: GWC-25

Date Collected: 01/14/20 10:35

Date Received: 01/15/20 09:00

## Lab Sample ID: 180-100999-2

Matrix: 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	304107	01/16/20 07:23	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1	1.0 mL	1.0 mL	304363	01/17/20 22:19	WTR	TAL PIT
Instrument ID: M										

## Client Sample ID: GWC-31

Date Collected: 01/14/20 11:40

Date Received: 01/15/20 09:00

## Lab Sample ID: 180-100999-3

Matrix: 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	304107	01/16/20 07:23	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1	1.0 mL	1.0 mL	304363	01/17/20 22:24	WTR	TAL PIT
Instrument ID: M										

## Client Sample ID: GWC-32

Date Collected: 01/14/20 12:20

Date Received: 01/15/20 09:00

## Lab Sample ID: 180-100999-4

Matrix: 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	304107	01/16/20 07:23	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1	1.0 mL	1.0 mL	304363	01/17/20 22:29	WTR	TAL PIT
Instrument ID: M										

### 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

NAM = Nicole Marfisi

WTR = Bill Reinheimer

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 180-100999-1

**Client Sample ID: GWC-8**  
Date Collected: 01/13/20 13:43  
Date Received: 01/15/20 09:00

**Lab Sample ID: 180-100999-1**  
Matrix: Water

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.10		0.20	0.10	ug/L		01/16/20 13:00	01/17/20 14:16	1

**Client Sample ID: GWC-25**  
Date Collected: 01/14/20 10:35  
Date Received: 01/15/20 09:00

**Lab Sample ID: 180-100999-2**  
Matrix: Water

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5		2.0	0.63	ug/L		01/16/20 07:23	01/17/20 22:19	1

**Client Sample ID: GWC-31**  
Date Collected: 01/14/20 11:40  
Date Received: 01/15/20 09:00

**Lab Sample ID: 180-100999-3**  
Matrix: Water

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	5.0		2.0	0.63	ug/L		01/16/20 07:23	01/17/20 22:24	1
Silver	0.81	J	1.0	0.18	ug/L		01/16/20 07:23	01/17/20 22:24	1

**Client Sample ID: GWC-32**  
Date Collected: 01/14/20 12:20  
Date Received: 01/15/20 09:00

**Lab Sample ID: 180-100999-4**  
Matrix: Water

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.5		1.0	0.18	ug/L		01/16/20 07:23	01/17/20 22:29	1

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Wansley

Job ID: 180-100999-1

## Method: EPA 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 180-304107/1-A**  
**Matrix: Water**  
**Analysis Batch: 304363**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 304107**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.18		1.0	0.18	ug/L		01/16/20 07:23	01/17/20 20:45	1
Copper	<0.63		2.0	0.63	ug/L		01/16/20 07:23	01/17/20 20:45	1
Silver	<0.18		1.0	0.18	ug/L		01/16/20 07:23	01/17/20 20:45	1

**Lab Sample ID: LCS 180-304107/2-A**  
**Matrix: Water**  
**Analysis Batch: 304363**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 304107**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	500	565		ug/L		113	80 - 120
Copper	500	468		ug/L		94	80 - 120
Silver	250	253		ug/L		101	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-304190/1-A**  
**Matrix: Water**  
**Analysis Batch: 304323**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304190**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.10		0.20	0.10	ug/L		01/16/20 13:00	01/17/20 14:14	1

**Lab Sample ID: LCS 180-304190/2-A**  
**Matrix: Water**  
**Analysis Batch: 304323**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304190**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.44		ug/L		98	80 - 120

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Wansley

Job ID: 180-100999-1

## Metals

### Prep Batch: 304107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-100999-2	GWC-25	Total Recoverable	Water	3005A	
180-100999-3	GWC-31	Total Recoverable	Water	3005A	
180-100999-4	GWC-32	Total Recoverable	Water	3005A	
MB 180-304107/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-304107/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 304190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-100999-1	GWC-8	Total/NA	Water	7470A	
MB 180-304190/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-304190/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 304323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-100999-1	GWC-8	Total/NA	Water	EPA 7470A	304190
MB 180-304190/1-A	Method Blank	Total/NA	Water	EPA 7470A	304190
LCS 180-304190/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	304190

### Analysis Batch: 304363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-100999-2	GWC-25	Total Recoverable	Water	EPA 6020B	304107
180-100999-3	GWC-31	Total Recoverable	Water	EPA 6020B	304107
180-100999-4	GWC-32	Total Recoverable	Water	EPA 6020B	304107
MB 180-304107/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	304107
LCS 180-304107/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	304107

**TestAmerica Pittsburg**  
301 Alpha Drive RIDC Park  
Pittsburg, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

# Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b>		Sampler: <u>O. FURZA</u>		Lab PM: <u>Bortol, Veronica</u>															
Client Contact: <u>Joju Abraham</u>		Phone: <u>(770) 594-5998</u>		E-Mail: <u>veronica.bortol@testamericainc.com</u>															
Company: <u>Southern Company</u>		Carrier Tracking No(s):																	
Address: <u>PO BOX 2641 GSC8</u>		Analysis Requested																	
City: <u>Birmingham</u>		Due Date Requested:		Performs MS/MSD (Yes or No)															
State, Zip: <u>AL, 35291</u>		TAT Requested (days): <u>2 DAY TAT</u>		Field Filtered Sample (Yes or No)															
Phone:		PO #: <u>SCS10347656</u>		Metals (mercury)															
Email: <u>JAbraham@southernco.com</u>		WO #:		Metals (copper)															
Project Name: <u>CCR - Plant Wansley - Landfill</u>		Project #: <u>40007709</u>		Metals (beryllium)															
Site: <u>Georgia</u>		SSOW#:		Metals (copper and silver)															
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals (mercury)	Metals (copper)	Metals (beryllium)	Total Number of Containers	Special Instructions/Note:						
GWC-8	<del>1-12-2020</del>	<del>1343</del>	1-12-2020	G	Water		N	X				1							
GWC-25	<del>1-14-2020</del>	<del>1035</del>	1-14-2020	G	Water		N		X			1							
GWC-31	<del>1-14-2020</del>	<del>1140</del>	1-14-2020	G	Water		N			X		1							
GWC-32	<del>1-14-2020</del>	<del>1226</del>	1-14-2020	G	Water		N				X	1							
					Water														
					Water														
					Water														
					Water														
					Water														
					Water														
					Water														
					Water														
							180-100999 Chain of Custody												
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																	
<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		<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:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:															

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-100999-1

**Login Number: 100999**

**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	



Product Name: Low-Flow System

Date: 2020-01-13 13:46:25

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name Plant Wansley - Ash Pond  
Site Name Plant Wansley - Ash Pond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 601534  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peri Pump  
Tubing Type poly  
Tubing Diameter .375 in  
Tubing Length 15 ft  
Pump placement from TOC 15.03 ft

**Well Information:**

Well ID GWC-8  
Well diameter 2 in  
Well Total Depth 20.30 ft  
Screen Length 10 ft  
Depth to Water 7.68 ft

**Pumping Information:**

Final Pumping Rate 150 mL/min  
Total System Volume 0.4157797 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4 in  
Total Volume Pumped 8.55 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	13:23:57	16.24	5.96	140.00	10.00	8.10	1.53	84.50
Last 5	13:28:57	16.19	5.94	131.06	10.00	8.10	1.59	84.44
Last 5	13:33:57	16.11	5.90	121.98	9.00	8.10	1.65	84.21
Last 5	13:38:57	16.20	5.90	123.42	8.32	8.10	1.71	81.04
Last 5	13:43:57	16.23	5.89	120.29	4.73	8.10	1.72	82.46
Variance 0		-0.07	-0.04	-9.08			0.06	-0.23
Variance 1		0.08	-0.00	1.44			0.06	-3.17
Variance 2		0.03	-0.01	-3.13			0.01	1.43

**Notes**

Sampled at 1323 on 1-13-2020. 65 F cloudy.

**Grab Samples**

Product Name: Low-Flow System

Date: 2020-01-13 14:32:07

**Project Information:**

Operator Name O. Fuquea  
Company Name ACC  
Project Name Plant Wansley  
Site Name Plant Wansley  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 601534  
Turbidity Make/Model Hach 2100Q

**Pump Information:**

Pump Model/Type Peristaltic pump  
Tubing Type poly  
Tubing Diameter .17 in  
Tubing Length 25 ft  
Pump placement from TOC 19 ft

**Well Information:**

Well ID GWC-10  
Well diameter 2 in  
Well Total Depth 22 ft  
Screen Length 10 ft  
Depth to Water 10.31 ft

**Pumping Information:**

Final Pumping Rate 150 mL/min  
Total System Volume 0.2015856 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 38 in  
Total Volume Pumped 4.5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 100
Last 5	14:10:05	18.52	6.15	255.83	33.00	11.00	2.32	184.98
Last 5	14:15:05	18.44	6.10	252.10	28.00	12.20	2.15	192.95
Last 5	14:20:05	18.34	5.99	242.77	24.00	14.00	1.63	176.25
Last 5	14:25:05	18.42	5.91	233.51	25.00	14.40	1.40	136.93
Last 5	14:30:09	18.41	5.93	236.48	17.00	14.80	1.30	119.30
Variance 0		-0.10	-0.11	-9.33			-0.52	-16.70
Variance 1		0.08	-0.07	-9.26			-0.23	-39.32
Variance 2		-0.01	0.02	2.98			-0.10	-17.63

**Notes**

No sample collected.

**Grab Samples**

Product Name: Low-Flow System

Date: 2020-01-14 10:37:33

**Project Information:**

Operator Name  
Company Name  
Project Name  
Site Name  
Latitude  
Longitude  
Sonde SN  
Turbidity Make/Model

O. Fuquea  
ACC  
Plant Wansley  
Plant Wansley - Ash Pond  
0° 0' 0"  
0° 0' 0"  
601534  
Hach 2100Q

**Pump Information:**

Pump Model/Type  
Tubing Type  
Tubing Diameter  
Tubing Length

QED BP  
poly  
.375 in  
66 ft

Pump placement from TOC  
56.23 ft

**Well Information:**

Well ID  
Well diameter  
Well Total Depth  
Screen Length  
Depth to Water

GWC-25  
2 in  
61.23 ft  
10 ft  
50.81 ft

**Pumping Information:**

Final Pumping Rate  
Total System Volume  
Calculated Sample Rate  
Stabilization Drawdown  
Total Volume Pumped

100 mL/min  
1.918431 L  
300 sec  
12 in  
5 L

**Low-Flow Sampling Stabilization Summary**

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:15:04	17.00	6.20	108.44	11.10	51.50	4.94	87.64
Last 5	10:20:04	16.96	6.20	110.44	9.72	51.60	4.96	76.39
Last 5	10:25:04	17.00	6.20	111.65	7.95	51.70	4.92	72.63
Last 5	10:30:04	17.07	6.19	110.86	6.73	51.80	4.87	71.22
Last 5	10:35:06	17.06	6.18	109.70	4.76	51.90	4.82	68.92
Variance 0		0.04	0.00	1.21			-0.04	-3.76
Variance 1		0.07	-0.01	-0.80			-0.05	-1.42
Variance 2		-0.01	-0.01	-1.16			-0.05	-2.30

**Notes**

Sampled at 1035. 65F overcast.

**Grab Samples**



Product Name: Low-Flow System

Date: 2020-01-14 11:41:31

Project Information:

Operator Name  
 Company Name  
 Project Name  
 Site Name  
 Latitude  
 Longitude  
 Sonde SN  
 Turbidity Make/Model

O. Fuquea  
 ACC  
 Plant Wansley  
 Plant Wansley - Ash Pond  
 0° 0' 0"  
 0° 0' 0"  
 601534  
 Hach 2100Q

Pump Information:  
 Pump Model/Type  
 Tubing Type  
 Tubing Diameter  
 Tubing Length

QED BP  
 poly  
 .375 in  
 43 ft

Pump placement from TOC 35.02 ft

Well Information:

Well ID  
 Well diameter  
 Well Total Depth  
 Screen Length  
 Depth to Water

GWC-31  
 2 in  
 38.02 ft  
 10 ft  
 27.87 ft

Pumping Information:  
 Final Pumping Rate  
 Total System Volume  
 Calculated Sample Rate  
 Stabilization Drawdown  
 Total Volume Pumped

100 mL/min  
 1.418902 L  
 300 sec  
 13 in  
 4 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:20:01	900.03	18.03	6.05	94.17	12.10	28.60	7.26	71.23
Last 5	11:25:02	1201.01	17.98	6.05	94.22	10.20	28.70	7.23	71.29
Last 5	11:30:03	1502.01	17.98	6.05	94.04	5.90	28.80	7.20	71.93
Last 5	11:35:04	1803.01	17.96	6.05	93.80	8.30	28.90	7.17	71.48
Last 5	11:40:05	2104.00	17.89	6.04	93.38	4.30	28.90	7.15	70.99
Variance 0			-0.00	-0.00	-0.17			-0.03	0.63
Variance 1			-0.02	-0.00	-0.24			-0.03	-0.45
Variance 2			-0.07	-0.00	-0.42			-0.01	-0.48

Notes

Sampled at 1100. 66F rain.

Grab Samples

Product Name: Low-Flow System

Date: 2020-01-14 12:27:57

Project Information:

Operator Name O. Fuquea  
 Company Name ACC  
 Project Name Plant Wansley  
 Site Name Plant Wansley - Ash Pond  
 Latitude 0° 0' 0"  
 Longitude 0° 0' 0"  
 Sonde SN 601534  
 Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peri  
 Tubing Type poly  
 Tubing Diameter .375 in  
 Tubing Length 35 ft  
 Pump placement from TOC 29 ft

Well Information:

Well ID GWC-32  
 Well diameter 2 in  
 Well Total Depth 31.05 ft  
 Screen Length 10 ft  
 Depth to Water 24.65 ft

Pumping Information:

Final Pumping Rate 125 mL/min  
 Total System Volume 0.8501527 L  
 Calculated Sample Rate 300 sec  
 Stabilization Drawdown 11 in  
 Total Volume Pumped 3.25 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5 12:06:47	300.05	17.89	6.50	123.40	7.74	25.00	9.28	44.16
Last 5 12:11:47	600.04	17.71	6.12	114.06	4.23	25.20	6.33	42.27
Last 5 12:16:47	900.03	17.72	6.11	104.61	2.87	25.40	7.61	60.00
Last 5 12:21:48	1201.02	17.75	6.10	104.28	4.07	25.50	8.02	61.20
Last 5 12:26:49	1502.02	17.76	6.11	105.28	2.99	25.60	7.99	62.29
Variance 0		0.01	-0.01	-9.45			1.28	17.73
Variance 1		0.03	-0.01	-0.33			0.41	1.21
Variance 2		0.01	0.01	1.00			-0.03	1.09

Notes

Sampled at 1226. 65F rain

Grab Samples

# APPENDIX C

## STATISTICAL ANALYSES

**100% ND**

Date: 3/14/2019 1:24 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

## Antimony (mg/L)

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-17, GWC-21, GWC-27, GWC-30

## Beryllium (mg/L)

GWC-10, GWC-12, GWC-13, GWC-15, GWC-17, GWC-18, GWC-20, GWC-22, GWC-5, GWC-7

## Boron (mg/L)

GWC-10, GWC-13, GWC-16, GWC-17, GWC-18, GWC-19, GWC-20, GWC-21, GWC-22, GWC-23, GWC-24, GWC-26, GWC-27, GWC-30, GWC-31, GWC-32, GWC-34, GWC-35, GWC-5, GWC-6, GWC-7

## Cadmium (mg/L)

GWC-10, GWC-12, GWC-13, GWC-15, GWC-16, GWC-17, GWC-18, GWC-19, GWC-20, GWC-21, GWC-22, GWC-23, GWC-25, GWC-26, GWC-27, GWC-30, GWC-31, GWC-32, GWC-33, GWC-34, GWC-35, GWC-5, GWC-6, GWC-7, GWC-8, GWC-9

## Cobalt (mg/L)

GWC-13, GWC-17, GWC-18, GWC-22, GWC-30

## Copper (mg/L)

GWC-10, GWC-12, GWC-16, GWC-18, GWC-19, GWC-21, GWC-22, GWC-30, GWC-32, GWC-34, GWC-7

## Lead (mg/L)

GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-21, GWC-22, GWC-23, GWC-30, GWC-32, GWC-33, GWC-35, GWC-6, GWC-7, GWC-9

## Nickel (mg/L)

GWC-12, GWC-15, GWC-16, GWC-17, GWC-18, GWC-20, GWC-22, GWC-30

## Selenium (mg/L)

GWC-10, GWC-17, GWC-19, GWC-20, GWC-23, GWC-24, GWC-34, GWC-7

## Silver (mg/L)

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)

GWC-10, GWC-11, GWC-12, GWC-13, GWC-15, GWC-16, GWC-17, GWC-18, GWC-20, GWC-21, GWC-22, GWC-23, GWC-24, GWC-25, GWC-26, GWC-30, GWC-31, GWC-32, GWC-34, GWC-5

## Vanadium (mg/L)

GWC-12, GWC-27

# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq.N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	GWC-10	0.005	1/31/2019	0.00048	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.005	1/24/2019	0.0025ND	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-18	0.005	1/28/2019	0.0025ND	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.005	1/24/2019	0.0025ND	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-23	0.005	1/25/2019	0.0025ND	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-24	0.005	1/31/2019	0.00048	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-25	0.005	1/24/2019	0.0025ND	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-26	0.005	1/24/2019	0.0025ND	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-27	0.005	1/24/2019	0.0025ND	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-30	0.005	1/30/2019	0.0004	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-31	0.005	1/31/2019	0.00042	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-32	0.005	1/30/2019	0.00039	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-33	0.005	1/30/2019	0.00055	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-5	0.005	1/30/2019	0.0004	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-6	0.005	1/30/2019	0.00039	No	128	92.19	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-11	0.005	1/24/2019	0.00065	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.005	1/25/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.005	1/22/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.005	1/22/2019	0.00041	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.005	1/25/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.005	1/28/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-19	0.005	1/28/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.005	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-23	0.005	1/25/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-24	0.005	1/31/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-25	0.005	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-26	0.005	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-31	0.005	1/31/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-32	0.005	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-33	0.005	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-34	0.005	1/28/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-35	0.005	1/21/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-5	0.005	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-6	0.005	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-7	0.005	1/21/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-8	0.005	1/22/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWC-10	0.18	1/31/2019	0.00059	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-11	0.18	1/24/2019	0.09	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-12	0.18	1/25/2019	0.024	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-13	0.18	1/22/2019	0.0029	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-14	0.18	1/22/2019	0.15	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-15	0.18	1/22/2019	0.012	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-16	0.18	1/25/2019	0.019	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-17	0.18	1/24/2019	0.016	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-18	0.18	1/28/2019	0.037	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-19	0.18	1/28/2019	0.12	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-20	0.18	1/28/2019	0.033	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-21	0.18	1/24/2019	0.046	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...

# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq.N	%NDS	Transform	Alpha	Method
Barium (mg/L)	GWC-22	0.18	1/24/2019	0.026	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-23	0.18	1/25/2019	0.0069	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-24	0.18	1/31/2019	0.011	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-25	0.18	1/24/2019	0.03	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-26	0.18	1/24/2019	0.036	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-27	0.18	1/24/2019	0.009	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-30	0.18	1/30/2019	0.013	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-31	0.18	1/31/2019	0.0016	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-32	0.18	1/30/2019	0.0017	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-33	0.18	1/30/2019	0.021	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-34	0.18	1/28/2019	0.013	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-35	0.18	1/21/2019	0.022	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-5	0.18	1/30/2019	0.016	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-6	0.18	1/30/2019	0.054	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-7	0.18	1/21/2019	0.083	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-8	0.18	1/22/2019	0.04	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Barium (mg/L)	GWC-9	0.18	1/22/2019	0.11	No	128	8.594	n/a	0.0001192	NP Inter (normality) ...
Beryllium (mg/L)	GWC-11	0.003	1/24/2019	0.00015	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-14	0.003	1/22/2019	0.0004	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-16	0.003	1/25/2019	0.000072	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-19	0.003	1/28/2019	0.00011	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-21	0.003	1/24/2019	0.000079	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-23	0.003	1/25/2019	0.0025ND	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-24	0.003	1/31/2019	0.000067	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-25	0.003	1/24/2019	0.000081	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-27	0.003	1/24/2019	0.00039	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-30	0.003	1/30/2019	0.0025ND	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-31	0.003	1/31/2019	0.00057	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-32	0.003	1/30/2019	0.00016	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-33	0.003	1/30/2019	0.00036	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-34	0.003	1/28/2019	0.000061	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-35	0.003	1/21/2019	0.0025ND	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6	0.003	1/30/2019	0.0025ND	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-8	0.003	1/22/2019	0.000058	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-9	0.003	1/22/2019	0.000079	No	128	70.31	n/a	0.0001192	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11	0.1	1/24/2019	0.05ND	No	71	98.59	n/a	0.0003641	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.1	1/25/2019	0.036	No	71	98.59	n/a	0.0003641	NP Inter (NDs) 1 of 2
<b>Boron (mg/L)</b>	<b>GWC-14</b>	<b>0.1</b>	<b>1/22/2019</b>	<b>0.63</b>	<b>Yes</b>	<b>71</b>	<b>98.59</b>	<b>n/a</b>	<b>0.0003641</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron (mg/L)	GWC-15	0.1	1/22/2019	0.1	No	71	98.59	n/a	0.0003641	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-25	0.1	1/24/2019	0.05ND	No	71	98.59	n/a	0.0003641	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-33	0.1	1/30/2019	0.05ND	No	71	98.59	n/a	0.0003641	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8	0.1	1/22/2019	0.05ND	No	71	98.59	n/a	0.0003641	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-9	0.1	1/22/2019	0.038	No	71	98.59	n/a	0.0003641	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	GWC-11	0.0025	1/24/2019	0.0025ND	No	128	96.09	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	GWC-14	0.0025	1/22/2019	0.00021	No	128	96.09	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	GWC-24	0.0025	1/31/2019	0.0025ND	No	128	96.09	n/a	0.0001192	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GWC-10	91	1/31/2019	15	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-11	91	1/24/2019	3.8	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-12	91	1/25/2019	46	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...

# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDS	Transform	Alpha	Method
Calcium (mg/L)	GWC-13	91	1/22/2019	4.4	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-14	91	1/22/2019	25	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-15	91	1/22/2019	13	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-16	91	1/25/2019	7	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-17	91	1/24/2019	7.7	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-18	91	1/28/2019	7	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-19	91	1/28/2019	9.9	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-20	91	1/28/2019	8.6	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-21	91	1/24/2019	4.1	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-22	91	1/24/2019	10	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-23	91	1/25/2019	3.7	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-24	91	1/31/2019	0.39	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-25	91	1/24/2019	5.4	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-26	91	1/24/2019	1.9	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-27	91	1/24/2019	0.71	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-30	91	1/30/2019	3.4	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-31	91	1/31/2019	11	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-32	91	1/30/2019	7	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-33	91	1/30/2019	17	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-34	91	1/28/2019	2.9	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-35	91	1/21/2019	2	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-5	91	1/30/2019	34	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-6	91	1/30/2019	12	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-7	91	1/21/2019	52	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-8	91	1/22/2019	22	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Calcium (mg/L)	GWC-9	91	1/22/2019	11	No	71	1.408	n/a	0.0003641	NP Inter (normality) ...
Chloride (mg/L)	GWC-10	23	1/31/2019	4	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-11	23	1/24/2019	0.94	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-12	23	1/25/2019	23	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-13	23	1/22/2019	1.2	No	70	0	n/a	0.0003724	NP Inter (normality) ...
<b>Chloride (mg/L)</b>	<b>GWC-14</b>	<b>23</b>	<b>1/22/2019</b>	<b>80</b>	<b>Yes</b>	<b>70</b>	<b>0</b>	<b>n/a</b>	<b>0.0003724</b>	<b>NP Inter (normality) ...</b>
Chloride (mg/L)	GWC-15	23	1/22/2019	9.1	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-16	23	1/25/2019	1.5	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-17	23	1/24/2019	1.2	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-18	23	1/28/2019	1.7	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-19	23	1/28/2019	2.2	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-20	23	1/28/2019	2	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-21	23	1/24/2019	4.1	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-22	23	1/24/2019	1.6	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-23	23	1/25/2019	2	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-24	23	1/31/2019	4.1	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-25	23	1/24/2019	8.7	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-26	23	1/24/2019	3.1	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-27	23	1/24/2019	1.1	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-30	23	1/30/2019	1.2	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-31	23	1/31/2019	1.3	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-32	23	1/30/2019	0.98	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-33	23	1/30/2019	2.2	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-34	23	1/28/2019	1.3	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-35	23	1/21/2019	3.5	No	70	0	n/a	0.0003724	NP Inter (normality) ...

# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq/N	%NDS	Transform	Alpha	Method
Chloride (mg/L)	GWC-5	23	1/30/2019	15	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-6	23	1/30/2019	5.3	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-7	23	1/21/2019	17	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-8	23	1/22/2019	2.8	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chloride (mg/L)	GWC-9	23	1/22/2019	2.3	No	70	0	n/a	0.0003724	NP Inter (normality) ...
Chromium (mg/L)	GWC-10	0.01	1/31/2019	0.0018	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.01	1/24/2019	0.003	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.01	1/25/2019	0.0011	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.01	1/22/2019	0.0013	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.01	1/22/2019	0.0013	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.01	1/22/2019	0.0038	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.01	1/25/2019	0.0014	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.01	1/24/2019	0.0014	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-18	0.01	1/28/2019	0.0012	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-19	0.01	1/28/2019	0.0025ND	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.01	1/28/2019	0.0011	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.01	1/24/2019	0.0012	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.01	1/24/2019	0.0021	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-23	0.01	1/25/2019	0.0017	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-24	0.01	1/31/2019	0.0022	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-25	0.01	1/24/2019	0.0026	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-26	0.01	1/24/2019	0.0018	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-27	0.01	1/24/2019	0.0015	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-30	0.01	1/30/2019	0.0018	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-31	0.01	1/31/2019	0.0031	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-32	0.01	1/30/2019	0.0017	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-33	0.01	1/30/2019	0.0026	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-34	0.01	1/28/2019	0.00076	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-35	0.01	1/21/2019	0.0013	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5	0.01	1/30/2019	0.0021	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6	0.01	1/30/2019	0.002	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-7	0.01	1/21/2019	0.0012	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-8	0.01	1/22/2019	0.0014	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.01	1/22/2019	0.0027	No	128	85.94	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-10	0.015	1/31/2019	0.0063	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-11	0.015	1/24/2019	0.0015	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-12	0.015	1/25/2019	0.00032	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
<b>Cobalt (mg/L)</b>	<b>GWC-14</b>	<b>0.015</b>	<b>1/22/2019</b>	<b>0.22</b>	<b>Yes</b>	<b>128</b>	<b>72.66</b>	<b>n/a</b>	<b>0.0001192</b>	<b>NP Inter (NDs) 1 of 2</b>
Cobalt (mg/L)	GWC-15	0.015	1/22/2019	0.00016	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-16	0.015	1/25/2019	0.00013	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-19	0.015	1/28/2019	0.00043	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-20	0.015	1/28/2019	0.0025ND	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-21	0.015	1/24/2019	0.0028	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-23	0.015	1/25/2019	0.000084	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-24	0.015	1/31/2019	0.0029	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-25	0.015	1/24/2019	0.0014	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-26	0.015	1/24/2019	0.00012	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-27	0.015	1/24/2019	0.00019	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-31	0.015	1/31/2019	0.0025ND	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-32	0.015	1/30/2019	0.00012	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2



# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq.N	%NDS	Transform	Alpha	Method
Cobalt (mg/L)	GWC-33	0.015	1/30/2019	0.00012	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-34	0.015	1/28/2019	0.0025ND	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-35	0.015	1/21/2019	0.00025	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.015	1/30/2019	0.00068	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
<b>Cobalt (mg/L)</b>	<b>GWC-6</b>	<b>0.015</b>	<b>1/30/2019</b>	<b>0.017</b>	<b>Yes</b>	<b>128</b>	<b>72.66</b>	<b>n/a</b>	<b>0.0001192</b>	<b>NP Inter (NDs) 1 of 2</b>
Cobalt (mg/L)	GWC-7	0.015	1/21/2019	0.00051	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-8	0.015	1/22/2019	0.013	No	128	72.66	n/a	0.0001192	NP Inter (NDs) 1 of 2
<b>Cobalt (mg/L)</b>	<b>GWC-9</b>	<b>0.015</b>	<b>1/22/2019</b>	<b>0.028</b>	<b>Yes</b>	<b>128</b>	<b>72.66</b>	<b>n/a</b>	<b>0.0001192</b>	<b>NP Inter (NDs) 1 of 2</b>
Copper (mg/L)	GWC-11	0.018	1/24/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-13	0.018	1/22/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-14	0.018	1/22/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-15	0.018	1/22/2019	0.003	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-17	0.018	1/24/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-20	0.018	1/28/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-23	0.018	1/25/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-24	0.018	1/31/2019	0.00063	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-25	0.018	1/24/2019	0.0017	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-26	0.018	1/24/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-27	0.018	1/24/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-31	0.018	1/31/2019	0.00064	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-33	0.018	1/30/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-35	0.018	1/21/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.018	1/30/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.018	1/30/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-8	0.018	1/22/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-9	0.018	1/22/2019	0.0025ND	No	91	80.22	n/a	0.0002273	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-10	3.2	1/31/2019	0.78	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-11	3.2	1/24/2019	0.076	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-12	3.2	1/25/2019	0.21	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-13	3.2	1/22/2019	0.1	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-14	3.2	1/22/2019	0.057	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-15	3.2	1/22/2019	0.071	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-16	3.2	1/25/2019	0.027	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-17	3.2	1/24/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-18	3.2	1/28/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-19	3.2	1/28/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-20	3.2	1/28/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-21	3.2	1/24/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-22	3.2	1/24/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-23	3.2	1/25/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-24	3.2	1/31/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-25	3.2	1/24/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-26	3.2	1/24/2019	0.2ND	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-27	3.2	1/24/2019	0.039	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-30	3.2	1/30/2019	0.1	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-31	3.2	1/31/2019	1.3	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-32	3.2	1/30/2019	2.3	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-33	3.2	1/30/2019	2.3	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-34	3.2	1/28/2019	0.19	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-35	3.2	1/21/2019	0.031	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...

# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GWC-5	3.2	1/30/2019	0.11	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-6	3.2	1/30/2019	0.078	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-7	3.2	1/21/2019	0.22	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-8	3.2	1/22/2019	0.062	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Fluoride (mg/L)	GWC-9	3.2	1/22/2019	0.065	No	70	48.57	n/a	0.0003724	NP Inter (normality) ...
Lead (mg/L)	GWC-10	0.013	1/31/2019	0.00013	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	1/24/2019	0.001ND	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-18	0.013	1/28/2019	0.00016	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-19	0.013	1/28/2019	0.00011	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	1/28/2019	0.00014	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-24	0.013	1/31/2019	0.00013	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-25	0.013	1/24/2019	0.00021	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-26	0.013	1/24/2019	0.000098	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-27	0.013	1/24/2019	0.000098	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-31	0.013	1/31/2019	0.00015	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-34	0.013	1/28/2019	0.00022	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.013	1/30/2019	0.00014	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-8	0.013	1/22/2019	0.001ND	No	128	99.22	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-10	0.0005	1/31/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-11	0.0005	1/24/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-12	0.0005	1/25/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-13	0.0005	1/22/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-14	0.0005	1/22/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-15	0.0005	1/22/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-16	0.0005	1/25/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-17	0.0005	1/24/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-18	0.0005	1/28/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-19	0.0005	1/28/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-20	0.0005	1/28/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-21	0.0005	1/24/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-22	0.0005	1/24/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-23	0.0005	1/25/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-24	0.0005	1/31/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-25	0.0005	1/24/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-26	0.0005	1/24/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-27	0.0005	1/24/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-30	0.0005	1/30/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-31	0.0005	1/31/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-32	0.0005	1/30/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-33	0.0005	1/30/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-34	0.0005	1/28/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-35	0.0005	1/21/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-5	0.0005	1/30/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-6	0.0005	1/30/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-7	0.0005	1/21/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-8	0.0005	1/22/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Mercury (mg/L)	GWC-9	0.0005	1/22/2019	0.0002ND	No	128	92.97	n/a	0.0001192	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-10	0.007	1/31/2019	0.0018	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-11	0.007	1/24/2019	0.00035	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-13	0.007	1/22/2019	0.00033	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2

# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	%NDS	Transform	Alpha	Method
Nickel (mg/L)	<b>GWC-14</b>	0.007	1/22/2019	0.014	Yes	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-19	0.007	1/28/2019	0.0009	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-21	0.007	1/24/2019	0.00051	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-23	0.007	1/25/2019	0.00044	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-24	0.007	1/31/2019	0.0018	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-25	0.007	1/24/2019	0.0027	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-26	0.007	1/24/2019	0.00087	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-27	0.007	1/24/2019	0.00035	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-31	0.007	1/31/2019	0.0011	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-32	0.007	1/30/2019	0.00064	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-33	0.007	1/30/2019	0.00054	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-34	0.007	1/28/2019	0.00047	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-35	0.007	1/21/2019	0.0011	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-5	0.007	1/30/2019	0.0032	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-6	0.007	1/30/2019	0.0057	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	<b>GWC-7</b>	0.007	1/21/2019	0.0077	Yes	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	GWC-8	0.007	1/22/2019	0.0025	No	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Nickel (mg/L)	<b>GWC-9</b>	0.007	1/22/2019	0.008	Yes	90	66.67	n/a	0.0002316	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.013	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.013	1/25/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-13	0.013	1/22/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.013	1/22/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.013	1/22/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.013	1/25/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-18	0.013	1/28/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.013	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.013	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-25	0.013	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-26	0.013	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-27	0.013	1/24/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-30	0.013	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-31	0.013	1/31/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-32	0.013	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-33	0.013	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-35	0.013	1/21/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-5	0.013	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-6	0.013	1/30/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-8	0.013	1/22/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.013	1/22/2019	0.0013ND	No	128	94.53	n/a	0.0001192	NP Inter (NDs) 1 of 2
Silver (mg/L)	<b>GWC-10</b>	0.005	1/31/2019	0.0055	Yes	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-11	0.005	1/24/2019	0.00033	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-12	0.005	1/25/2019	0.00017	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-14	0.005	1/22/2019	0.001ND	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-16	0.005	1/25/2019	0.00035	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-17	0.005	1/24/2019	0.00047	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-21	0.005	1/24/2019	0.00063	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-22	0.005	1/24/2019	0.00038	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-23	0.005	1/25/2019	0.00039	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-24	0.005	1/31/2019	0.00069	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-25	0.005	1/24/2019	0.00034	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2

# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

Well	Upper Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
GWC-26	0.005	1/24/2019	0.00019	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-27	0.005	1/24/2019	0.00061	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-31	0.005	1/31/2019	0.00036	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-32	0.005	1/30/2019	0.00019	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-33	0.005	1/30/2019	0.00035	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-5	0.005	1/30/2019	0.00016	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-6	0.005	1/30/2019	0.00032	No	91	87.91	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-14	0.002	1/22/2019	0.00047	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-19	0.002	1/28/2019	0.0005ND	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-27	0.002	1/24/2019	0.0002	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-33	0.002	1/30/2019	0.0005ND	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-35	0.002	1/21/2019	0.0005ND	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-6	0.002	1/30/2019	0.0005ND	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-7	0.002	1/21/2019	0.0005ND	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-8	0.002	1/22/2019	0.0005ND	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-9	0.002	1/22/2019	0.0005ND	No	125	97.6	n/a	0.0001244	NP Inter (NDs) 1 of 2
GWC-10	0.01	1/31/2019	0.0015	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-11	0.01	1/24/2019	0.0032	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-13	0.01	1/22/2019	0.0015	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-14	0.01	1/22/2019	0.001ND	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-15	0.01	1/22/2019	0.0012	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-16	0.01	1/25/2019	0.0052	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-17	0.01	1/24/2019	0.0027	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-18	0.01	1/28/2019	0.0015	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-19	0.01	1/28/2019	0.001ND	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-20	0.01	1/28/2019	0.0019	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-21	0.01	1/24/2019	0.001ND	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-22	0.01	1/24/2019	0.0065	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-23	0.01	1/25/2019	0.0012	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-24	0.01	1/31/2019	0.0015	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-25	0.01	1/24/2019	0.0018	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-26	0.01	1/24/2019	0.0013	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-30	0.01	1/30/2019	0.0021	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-31	0.01	1/31/2019	0.0014	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-32	0.01	1/30/2019	0.0012	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-33	0.01	1/30/2019	0.0014	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-34	0.01	1/28/2019	0.001ND	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-35	0.01	1/21/2019	0.0011	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-5	0.01	1/30/2019	0.0031	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-6	0.01	1/30/2019	0.0015	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-7	0.01	1/21/2019	0.003	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-8	0.01	1/22/2019	0.0015	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-9	0.01	1/22/2019	0.0014	No	91	82.42	n/a	0.0002273	NP Inter (NDs) 1 of 2
GWC-10	0.048	1/31/2019	0.0039	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
GWC-11	0.048	1/24/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
GWC-12	0.048	1/25/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
GWC-13	0.048	1/22/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
GWC-14	0.048	1/22/2019	0.0094	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
GWC-15	0.048	1/22/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
GWC-16	0.048	1/25/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...

# Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/15/2019, 2:29 PM

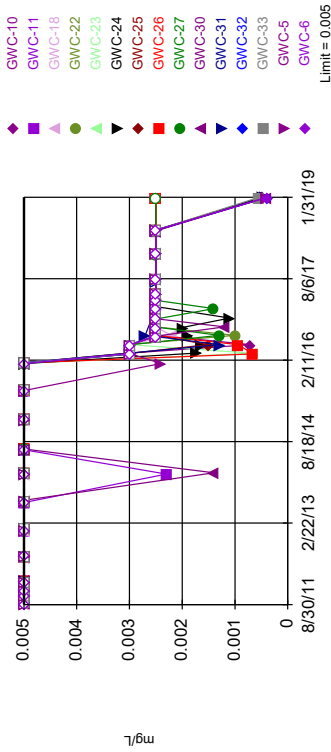
Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	%NDS	Transform	Alpha	Method
Zinc (mg/L)	GWC-17	0.048	1/24/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-18	0.048	1/28/2019	0.0033	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-19	0.048	1/28/2019	0.0049	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-20	0.048	1/28/2019	0.014	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-21	0.048	1/24/2019	0.0034	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-22	0.048	1/24/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-23	0.048	1/25/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-24	0.048	1/31/2019	0.006	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-25	0.048	1/24/2019	0.013	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-26	0.048	1/24/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-27	0.048	1/24/2019	0.0041	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-30	0.048	1/30/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-31	0.048	1/31/2019	0.008	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	<b>GWC-32</b>	<b>0.048</b>	<b>1/30/2019</b>	<b>0.053</b>	<b>Yes</b>	<b>90</b>	<b>24.44</b>	<b>n/a</b>	<b>0.0002316</b>	<b>NP Inter (normality) ...</b>
Zinc (mg/L)	GWC-33	0.048	1/30/2019	0.0096	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-34	0.048	1/28/2019	0.0031	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-35	0.048	1/21/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-5	0.048	1/30/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-6	0.048	1/30/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-7	0.048	1/21/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-8	0.048	1/22/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...
Zinc (mg/L)	GWC-9	0.048	1/22/2019	0.005ND	No	90	24.44	n/a	0.0002316	NP Inter (normality) ...

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Hollow symbols indicate censored values.

Within Limit

### Antimony

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 92.19% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 15 points to limit. Assumes 14 future values.

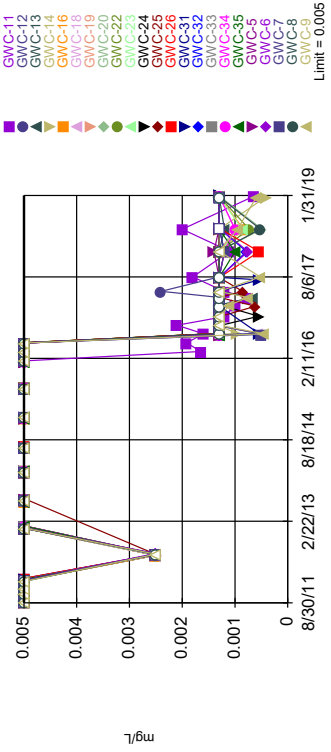
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Arsenic

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 94.53% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 23 points to limit. Assumes 6 future values.

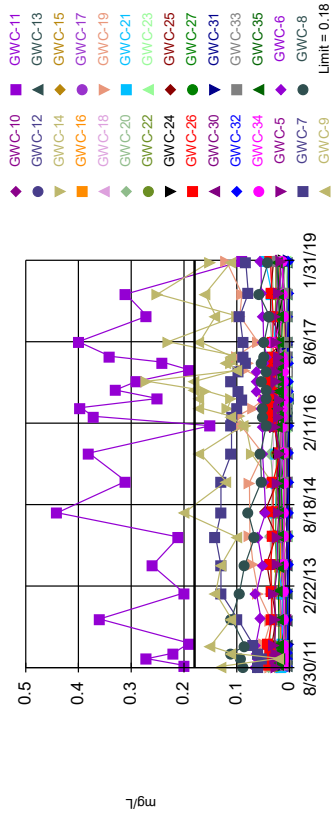
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Barium

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 128 background values. 8.594% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 29 points to limit.

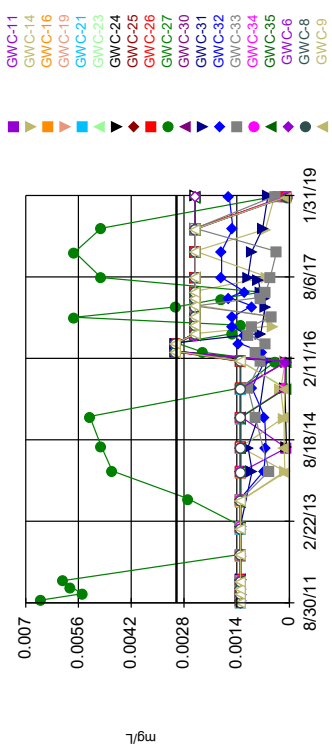
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Beryllium

Interwell Non-parametric



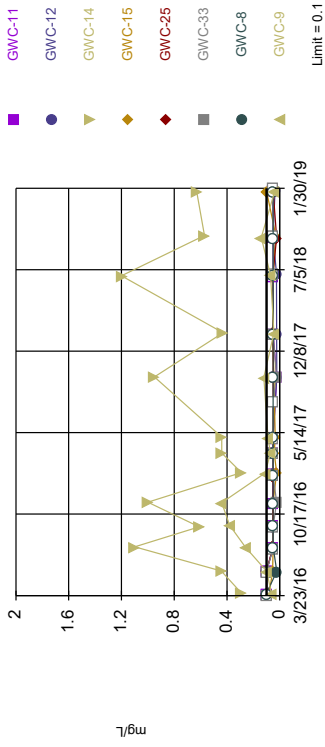
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 70.31% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 19 points to limit. Assumes 10 future values.

Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.  
Exceeds Limit: GWC-14

### Boron

Interwell Non-parametric



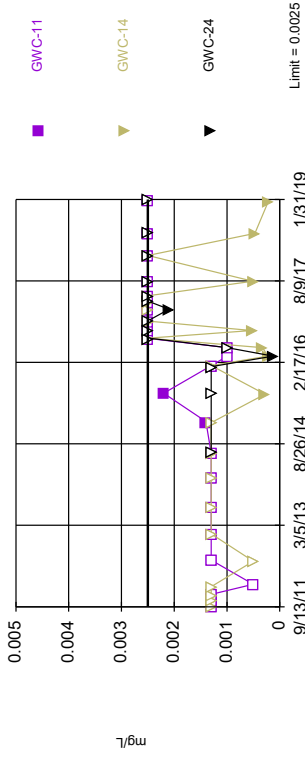
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 71 background values. 98.59% NDs. Annual per-constituent alpha = 0.0209. Individual comparison alpha = 0.0003641 (1 of 2). Comparing 8 points to limit. Assumes 21 future values.

Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.  
Within Limit

### Cadmium

Interwell Non-parametric



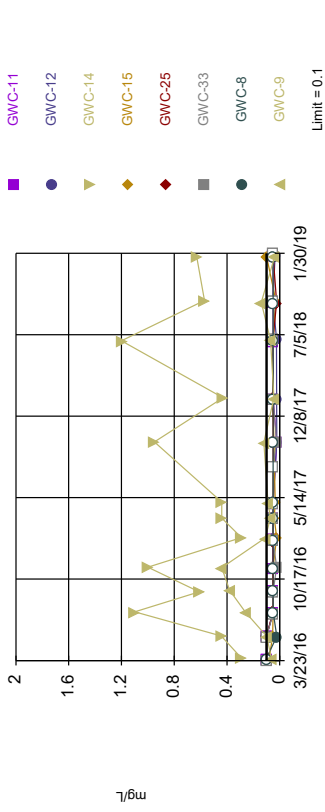
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 96.09% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 3 points to limit. Assumes 26 future values.

Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.  
Within Limit

### Calcium

Interwell Non-parametric



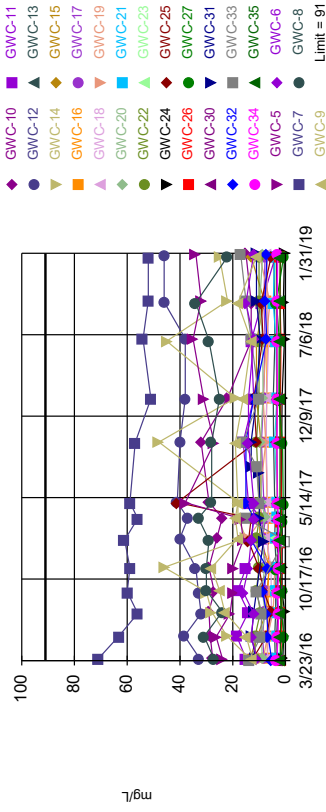
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 71 background values. 1.408% NDs. Annual per-constituent alpha = 0.0209. Individual comparison alpha = 0.0003641 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.  
Within Limit

### Chloride

Interwell Non-parametric



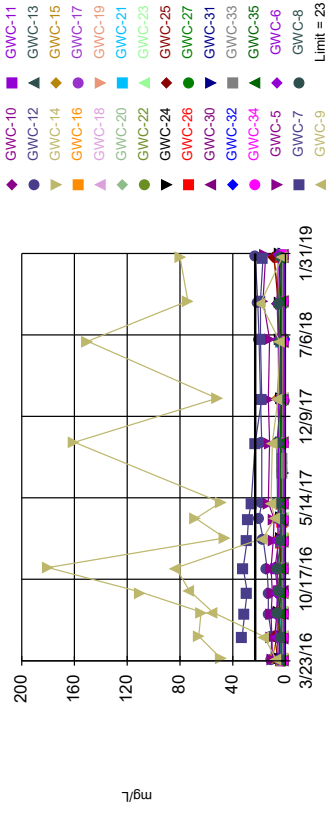
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. Annual per-constituent alpha = 0.02137. Individual comparison alpha = 0.0003724 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.  
Exceeds Limit: GWC-14

### Chloride

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 70 background values. Annual per-constituent alpha = 0.02137. Individual comparison alpha = 0.0003724 (1 of 2). Comparing 29 points to limit.

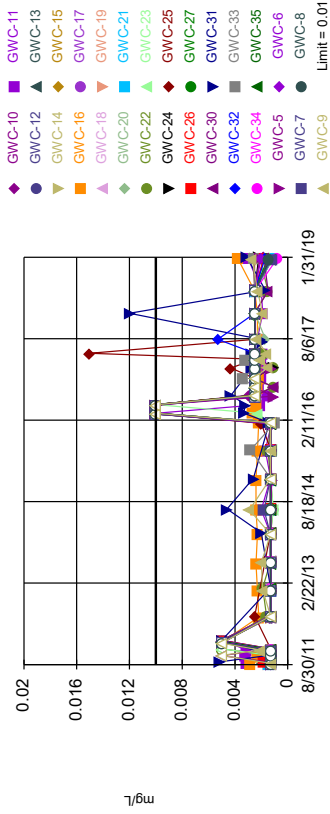
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Chromium

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 85.94% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 29 points to limit. Assumes 11 future values.

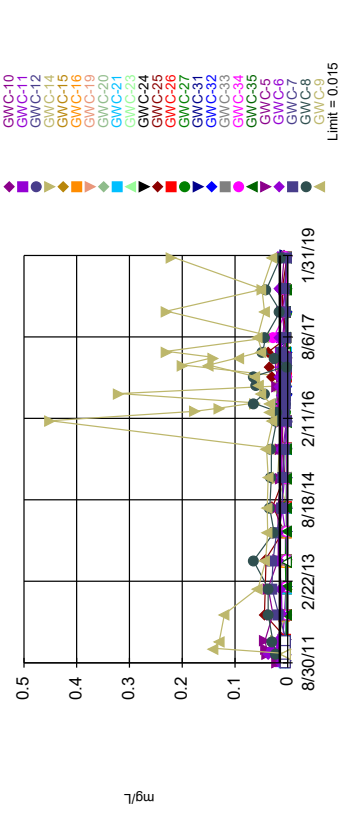
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Exceeds Limit: GWC-14, GWC-6, GWC-9

### Cobalt

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 72.66% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 24 points to limit. Assumes 5 future values.

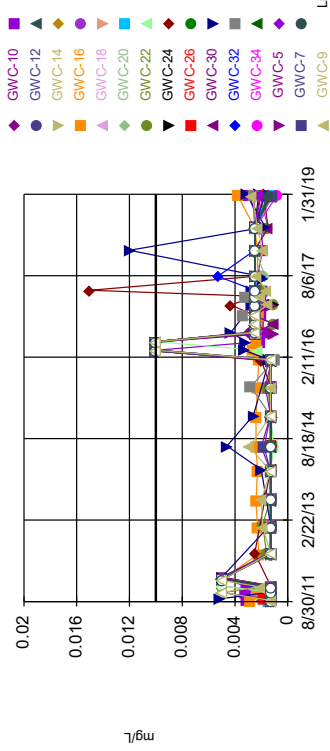
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Copper

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 91 background values. 80.22% NDs. Annual per-constituent alpha = 0.0131. Individual comparison alpha = 0.0002273 (1 of 2). Comparing 18 points to limit. Assumes 11 future values.

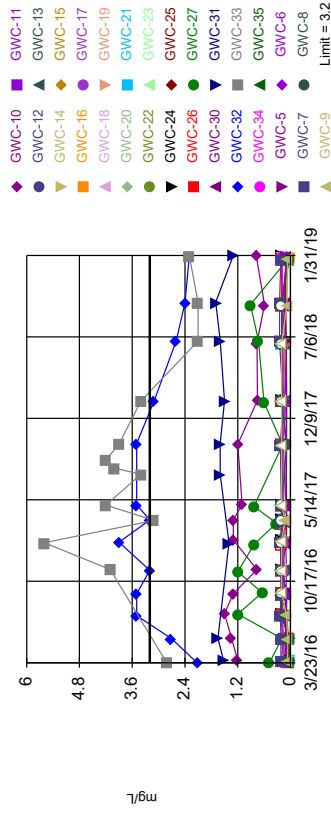
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Fluoride

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 0.1 alpha level. Limit is highest of 70 background values. 48.57% NDs. Annual per-constituent alpha = 0.02137. Individual comparison alpha = 0.0003724 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

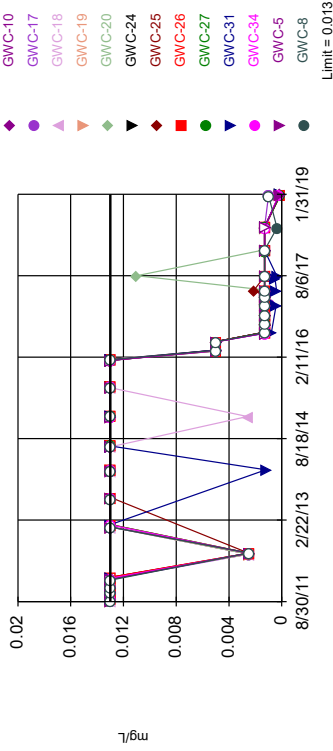


Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Lead

Interwell Non-parametric



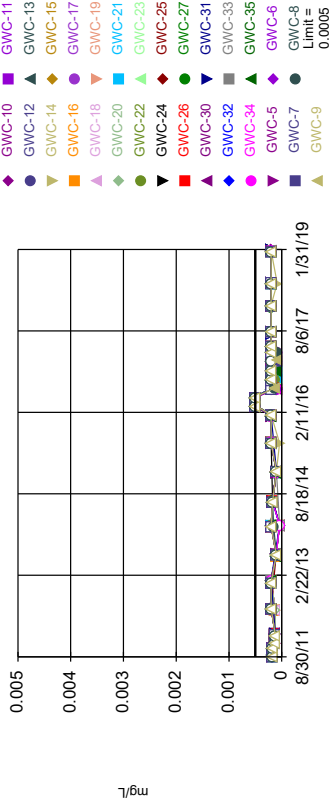
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 99.22% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 13 points to limit. Assumes 16 future values.

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Mercury

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 92.97% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 29 points to limit.

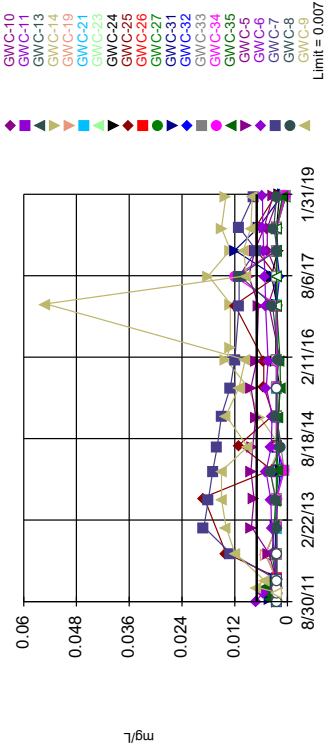
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Exceeds Limit: GWC-14, GWC-7, GWC-9

### Nickel

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 90 background values. 66.67% NDs. Annual per-constituent alpha = 0.01334. Individual comparison alpha = 0.0002316 (1 of 2). Comparing 21 points to limit. Assumes 8 future values.

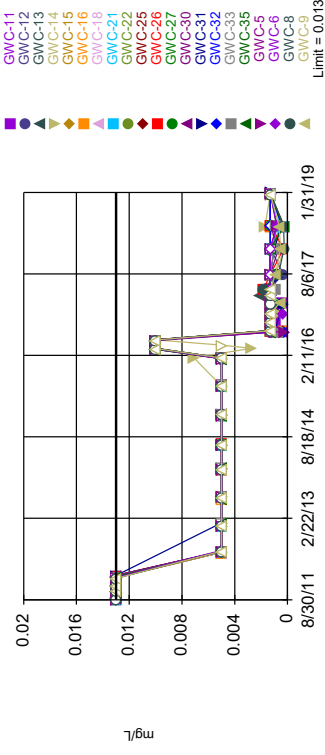
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Selenium

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 94.53% NDs. Annual per-constituent alpha = 0.006892. Individual comparison alpha = 0.0001192 (1 of 2). Comparing 21 points to limit. Assumes 8 future values.

Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

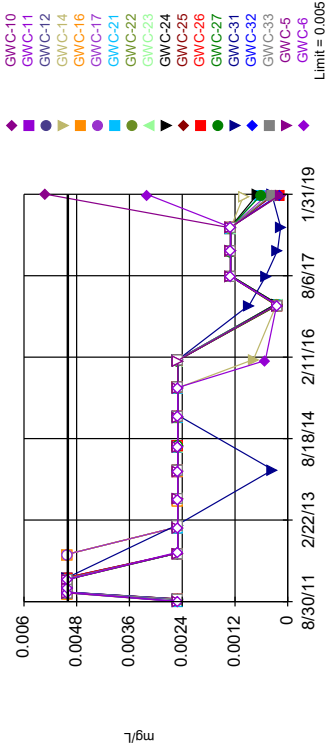
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Exceeds Limit: GWC-10

### Silver

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 91 background values. 87.91% NDs. Annual per-constituent alpha = 0.0131. Individual comparison alpha = 0.0002273 (1 of 2). Comparing 18 points to limit. Assumes 11 future values.

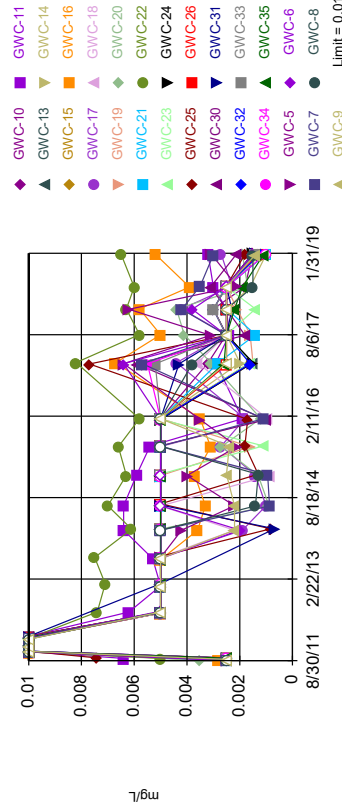
Prediction Limit Analysis Run 3/15/2019 2:25 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Vanadium

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 91 background values. 82.42% NDs. Annual per-constituent alpha = 0.0131. Individual comparison alpha = 0.0002273 (1 of 2). Comparing 27 points to limit. Assumes 2 future values.

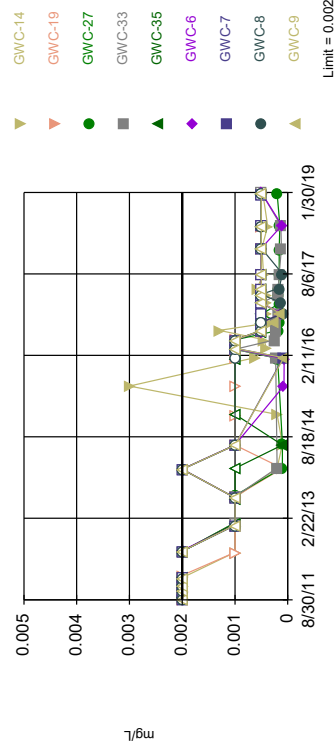
Prediction Limit Analysis Run 3/15/2019 2:26 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

### Thallium

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 125 background values. 97.6% NDs. Annual per-constituent alpha = 0.00719. Individual comparison alpha = 0.0001244 (1 of 2). Comparing 9 points to limit. Assumes 20 future values.

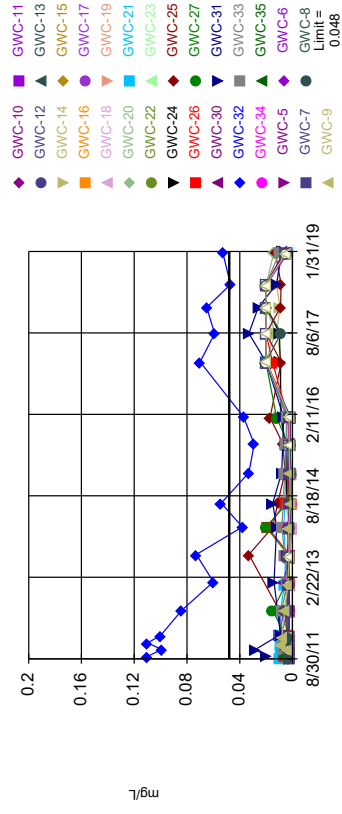
Prediction Limit Analysis Run 3/15/2019 2:26 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Exceeds Limit: GWC-32

### Zinc

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 90 background values. 24.44% NDs. Annual per-constituent alpha = 0.01334. Individual comparison alpha = 0.0002316 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 3/15/2019 2:26 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-6	GWA-3 (bg)	GWA-4 (bg)	GWC-5	GWC-11	GWC-22	GWC-30	GWC-32
8/30/2011	<0.005								
8/31/2011		<0.005	<0.005	<0.005	<0.005				
9/13/2011						<0.005			
9/15/2011							<0.005	<0.005	<0.005
9/16/2011									
9/17/2011									
10/26/2011	<0.005								
10/27/2011				<0.005	<0.005				
10/28/2011						<0.005		<0.005	
10/29/2011							<0.005		
10/30/2011		<0.005							
10/31/2011									<0.005
12/3/2011	<0.005								
12/4/2011						<0.005			
12/5/2011		<0.005			<0.005				
12/12/2011									
12/13/2011							<0.005	<0.005	<0.005
12/14/2011				<0.005					
1/25/2012		<0.005			<0.005		<0.005		
1/31/2012									
2/1/2012				<0.005					<0.005
2/7/2012									
2/8/2012								<0.005	
2/9/2012	<0.005					<0.005			
7/11/2012	<0.005								
7/16/2012									
7/17/2012									<0.005
7/18/2012					<0.005	<0.005	<0.005	<0.005	
7/23/2012				<0.005					
7/24/2012		<0.005							
1/8/2013	<0.005	<0.005				<0.005			
1/9/2013					<0.005				
1/22/2013							<0.005		
1/23/2013				<0.005					<0.005
1/24/2013								<0.005	
7/9/2013		<0.005				<0.005			
7/16/2013	<0.005						<0.005		
7/17/2013				<0.005	<0.005				
7/23/2013									
7/24/2013								<0.005	<0.005
1/14/2014	<0.005								
1/15/2014		<0.005		<0.005	<0.005	0.0023 (J)			
1/21/2014							<0.005		
1/22/2014									
1/23/2014								0.0014 (J)	<0.005
6/24/2014	<0.005								
6/25/2014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
7/1/2014								<0.005	<0.005
7/8/2014									
1/13/2015	<0.005				<0.005				
1/14/2015				<0.005			<0.005		
1/20/2015		<0.005						<0.005	<0.005

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-6	GWA-3 (bg)	GWA-4 (bg)	GWC-5	GWC-11	GWC-22	GWC-30	GWC-32
1/21/2015						<0.005			
1/22/2015									
7/21/2015			<0.005	<0.005					
7/22/2015									
7/23/2015	<0.005						<0.005		
7/24/2015		<0.005			<0.005				
7/28/2015						<0.005			
7/29/2015									
7/30/2015								<0.005	<0.005
7/31/2015									
1/19/2016								<0.005	
1/20/2016		<0.005		<0.005	0.0024 (J)				
1/21/2016									
1/22/2016									
1/25/2016									<0.005
1/26/2016						<0.005	<0.005		
1/27/2016	<0.005								
3/22/2016									
3/23/2016				<0.003				<0.003	<0.003
3/24/2016									
3/28/2016		<0.003			<0.003				
3/29/2016						<0.003			
3/30/2016	<0.003								
3/31/2016			0.000602 (J)				<0.003		
5/19/2016				<0.003					
5/20/2016								<0.003	
5/23/2016					<0.003				
5/24/2016		<0.003							<0.003
5/25/2016			0.000642 (J)			<0.003			
5/26/2016	<0.003						<0.003		
7/21/2016		<0.0025		<0.0025	<0.0025			<0.0025	
7/22/2016									<0.0025
7/25/2016	0.0022 (J)					<0.0025			
7/26/2016							0.001 (J)		
7/27/2016			<0.0025						
9/14/2016				<0.0025					
9/15/2016		<0.0025			<0.0025				
9/16/2016									<0.0025
9/19/2016	<0.0025					<0.0025			
9/20/2016							<0.0025	0.0012 (J)	
11/9/2016									
11/10/2016				<0.0025					
11/11/2016									
11/14/2016								<0.0025	
11/15/2016					<0.0025				<0.0025
11/16/2016		<0.0025				<0.0025			
11/17/2016	<0.0025						<0.0025		
11/18/2016									
1/17/2017				<0.0025					
1/19/2017									
1/20/2017									
1/24/2017								<0.0025	



# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWC-33	GWC-23	GWA-28 (bg)	GWC-25	GWC-26	GWC-31	GWA-29 (bg)	GWC-27
8/30/2011									
8/31/2011									
9/13/2011									
9/15/2011									
9/16/2011	<0.005	<0.005	<0.005	<0.005					
9/17/2011					<0.005	<0.005	<0.005	<0.005	<0.005
10/26/2011									
10/27/2011	<0.005								
10/28/2011				<0.005				<0.005	
10/29/2011			<0.005			<0.005			<0.005
10/30/2011		<0.005							
10/31/2011					<0.005		<0.005		
12/3/2011									
12/4/2011									
12/5/2011									
12/12/2011				<0.005				<0.005	
12/13/2011	<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		<0.005					<0.005	
2/1/2012		<0.005							
2/7/2012					<0.005	<0.005	<0.005		
2/8/2012									
2/9/2012									
7/11/2012									
7/16/2012				<0.005					
7/17/2012		<0.005			<0.005	<0.005		<0.005	<0.005
7/18/2012	<0.005		<0.005						
7/23/2012									
7/24/2012									
1/8/2013									
1/9/2013									
1/22/2013			<0.005						
1/23/2013		<0.005					<0.005		
1/24/2013	<0.005			<0.005		<0.005		<0.005	<0.005
7/9/2013									
7/16/2013									
7/17/2013	<0.005	<0.005							
7/23/2013			<0.005	<0.005					
7/24/2013					<0.005	<0.005		<0.005	<0.005
1/14/2014									
1/15/2014									
1/21/2014	<0.005								
1/22/2014			<0.005	<0.005				<0.005	
1/23/2014		<0.005			<0.005	<0.005	<0.005		<0.005
6/24/2014									
6/25/2014	<0.005								
7/1/2014			<0.005	<0.005			<0.005		
7/8/2014					<0.005	<0.005		<0.005 (D)	<0.005
1/13/2015									
1/14/2015	<0.005								
1/20/2015		<0.005							

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWC-33	GWC-23	GWA-28 (bg)	GWC-25	GWC-26	GWC-31	GWA-29 (bg)	GWC-27
1/21/2015				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/22/2015			<0.005						
7/21/2015	<0.005			<0.005					
7/22/2015								<0.005	
7/23/2015									
7/24/2015									
7/28/2015									
7/29/2015		<0.005	<0.005						
7/30/2015					<0.005				<0.005
7/31/2015						<0.005			
1/19/2016								<0.005 (D)	
1/20/2016									
1/21/2016	<0.005		<0.005		<0.005				
1/22/2016				<0.005					<0.005
1/25/2016		<0.005				<0.005	<0.005		
1/26/2016									
1/27/2016									
3/22/2016				<0.003				0.00113 (J)	
3/23/2016	<0.003	<0.003							<0.003
3/24/2016						0.000653 (J)			
3/28/2016					<0.003				
3/29/2016			0.000665 (J)						
3/30/2016							<0.003		
3/31/2016									
5/19/2016								0.00103 (J)	
5/20/2016	<0.003								
5/23/2016				0.00103 (J)					
5/24/2016		<0.003							<0.003
5/25/2016			<0.003		0.00151 (J)	0.000943 (J)	0.00129 (J)		
5/26/2016									
7/21/2016	<0.0025							0.0013 (J)	
7/22/2016		<0.0025							
7/25/2016				0.0021 (J)					
7/26/2016						<0.0025			0.0013 (J)
7/27/2016			<0.0025		<0.0025		0.0027		
9/14/2016									
9/15/2016	<0.0025			0.0012 (J)					
9/16/2016		<0.0025							
9/19/2016					<0.0025	<0.0025			<0.0025
9/20/2016			<0.0025						
11/9/2016				<0.0025					
11/10/2016									
11/11/2016	<0.0025								<0.0025
11/14/2016						<0.0025			
11/15/2016					<0.0025				
11/16/2016									
11/17/2016		<0.0025							
11/18/2016			<0.0025						
1/17/2017				<0.0025				<0.0025	
1/19/2017	<0.0025					<0.0025			
1/20/2017									0.0014 (J)
1/24/2017					<0.0025				

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWC-33	GWC-23	GWA-28 (bg)	GWC-25	GWC-26	GWC-31	GWA-29 (bg)	GWC-27
1/25/2017		<0.0025					<0.0025		
1/26/2017									
1/31/2017									
2/1/2017									
2/3/2017			<0.0025						
3/16/2017	<0.0025			<0.0025		<0.0025			<0.0025
3/17/2017									
3/22/2017									
3/23/2017		<0.0025			<0.0025		<0.0025		
3/24/2017									
3/28/2017			<0.0025						
3/29/2017									
4/27/2017				<0.0025				<0.0025	
4/28/2017	<0.0025								<0.0025
5/1/2017		<0.0025				<0.0025			
5/2/2017					<0.0025		<0.0025		
5/3/2017									
5/4/2017			<0.0025						
7/18/2017								<0.0025	
7/19/2017							<0.0025		
8/1/2017				<0.0025				<0.0025	
8/2/2017									
8/3/2017	<0.0025				<0.0025	<0.0025			<0.0025
8/4/2017		<0.0025					<0.0025		
8/7/2017									
8/8/2017			<0.0025						
10/3/2017									
1/19/2018	<0.0025			<0.0025				<0.0025	<0.0025
1/22/2018						<0.0025			
1/23/2018		<0.0025					<0.0025		
1/24/2018									
1/25/2018			<0.0025		<0.0025				
6/19/2018	<0.0025			<0.0025				<0.0025	
6/20/2018			<0.0025						
6/21/2018									
6/25/2018									
6/26/2018		<0.0025							
6/27/2018					<0.0025	<0.0025	<0.0025		<0.0025
1/17/2019	<0.0025								
1/18/2019								<0.0025	
1/21/2019				<0.0025					
1/24/2019					<0.0025	<0.0025			<0.0025
1/25/2019			<0.0025						
1/28/2019									
1/30/2019		0.00055 (J)							
1/31/2019							0.00042 (J)		



# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWC-24	GWC-10
8/30/2011			
8/31/2011			
9/13/2011			
9/15/2011			
9/16/2011			
9/17/2011	<0.005		
10/26/2011			
10/27/2011	<0.005		
10/28/2011			
10/29/2011			
10/30/2011			
10/31/2011			
12/3/2011			
12/4/2011			
12/5/2011			
12/12/2011			
12/13/2011			
12/14/2011	<0.005		
1/25/2012			
1/31/2012			
2/1/2012			
2/7/2012	<0.005		
2/8/2012			
2/9/2012			
7/11/2012			
7/16/2012			
7/17/2012			
7/18/2012			
7/23/2012	<0.005		
7/24/2012			
1/8/2013			
1/9/2013			
1/22/2013			
1/23/2013	<0.005		
1/24/2013			
7/9/2013			
7/16/2013			
7/17/2013			
7/23/2013			
7/24/2013	<0.005		
1/14/2014			
1/15/2014			
1/21/2014			
1/22/2014	<0.005		
1/23/2014			
6/24/2014			
6/25/2014			
7/1/2014	<0.005		
7/8/2014		<0.005	
1/13/2015			
1/14/2015			
1/20/2015			

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWC-24	GWC-10
1/21/2015			
1/22/2015	<0.005		
7/21/2015			
7/22/2015	<0.005		
7/23/2015			
7/24/2015			
7/28/2015			
7/29/2015			
7/30/2015			
7/31/2015		<0.005	
1/19/2016			
1/20/2016	<0.005	<0.005	
1/21/2016			
1/22/2016			
1/25/2016			<0.005
1/26/2016			
1/27/2016			
3/22/2016			
3/23/2016	0.00069 (J)		
3/24/2016			
3/28/2016			
3/29/2016			
3/30/2016		0.00174 (J)	<0.003
3/31/2016			
5/19/2016			
5/20/2016			
5/23/2016			
5/24/2016	<0.003		
5/25/2016		0.00163 (J)	0.000703 (J)
5/26/2016			
7/21/2016			
7/22/2016			
7/25/2016			
7/26/2016	0.0021 (J)		
7/27/2016		0.0019 (J)	<0.0025
9/14/2016			
9/15/2016			
9/16/2016	<0.0025	0.002 (J)	<0.0025
9/19/2016			
9/20/2016			
11/9/2016			
11/10/2016	<0.0025		
11/11/2016			
11/14/2016			
11/15/2016			
11/16/2016			
11/17/2016			<0.0025
11/18/2016		0.0011 (J)	
1/17/2017			
1/19/2017	<0.0025		
1/20/2017			
1/24/2017			

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWC-24	GWC-10
1/25/2017			
1/26/2017			
1/31/2017			
2/1/2017			<0.0025
2/3/2017		<0.0025	
3/16/2017			
3/17/2017	<0.0025		
3/22/2017			
3/23/2017			
3/24/2017			<0.0025
3/28/2017			
3/29/2017		<0.0025	
4/27/2017			
4/28/2017	<0.0025		
5/1/2017			
5/2/2017			
5/3/2017			<0.0025
5/4/2017		<0.0025	
7/18/2017			
7/19/2017			
8/1/2017			
8/2/2017	<0.0025		
8/3/2017			
8/4/2017			
8/7/2017			
8/8/2017		<0.0025	<0.0025
10/3/2017			
1/19/2018	<0.0025		
1/22/2018			
1/23/2018			
1/24/2018			
1/25/2018		<0.0025	<0.0025
6/19/2018	<0.0025		
6/20/2018			
6/21/2018			<0.0025
6/25/2018			
6/26/2018			
6/27/2018		<0.0025	
1/17/2019	<0.0025		
1/18/2019			
1/21/2019			
1/24/2019			
1/25/2019			
1/28/2019			
1/30/2019			
1/31/2019		0.00048 (J)	0.00048 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-18	GWC-16	GWC-20	GWA-3 (bg)	GWC-6	GWA-4 (bg)	GWC-5	GWC-9
8/30/2011	<0.005	<0.005	<0.005						
8/31/2011				<0.005	<0.005	<0.005	<0.005	<0.005	
9/7/2011									<0.005
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	<0.005	<0.005	<0.005						
10/27/2011				<0.005			<0.005	<0.005	
10/28/2011									
10/29/2011									
10/30/2011						<0.005			<0.005
10/31/2011									
12/3/2011	<0.005	<0.005	<0.005						
12/4/2011				<0.005					<0.005
12/5/2011						<0.005		<0.005	
12/12/2011									
12/13/2011									
12/14/2011							<0.005		
1/19/2012									<0.005
1/24/2012									
1/25/2012			<0.005			<0.005		<0.005	
1/31/2012									
2/1/2012							<0.005		
2/7/2012									
2/8/2012	<0.005			<0.005					
2/9/2012		<0.005							
7/11/2012	<0.0025	<0.0025	<0.0025	<0.0025					
7/16/2012									
7/17/2012									
7/18/2012								<0.0025	<0.0025
7/23/2012							<0.0025		
7/24/2012						<0.0025			
1/7/2013									
1/8/2013	<0.005	<0.005	<0.005	<0.005		<0.005			<0.005
1/9/2013								<0.005	
1/22/2013									
1/23/2013							<0.005		
1/24/2013									
7/2/2013			<0.005						
7/9/2013						<0.005			<0.005
7/10/2013									
7/16/2013	<0.005	<0.005		<0.005					
7/17/2013							<0.005	<0.005	
7/23/2013									
7/24/2013									
1/14/2014		<0.005	<0.005						<0.005
1/15/2014						<0.005	<0.005	<0.005	
1/21/2014	<0.005			<0.005					
1/22/2014									
1/23/2014									
6/24/2014	<0.005	<0.005		<0.005					<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-18	GWC-16	GWC-20	GWA-3 (bg)	GWC-6	GWA-4 (bg)	GWC-5	GWC-9
6/25/2014			<0.005		<0.005	<0.005	<0.005	<0.005	
7/1/2014									
7/8/2014									
1/13/2015	<0.005	<0.005	<0.005	<0.005				<0.005	
1/14/2015							<0.005		
1/20/2015						<0.005			<0.005
1/21/2015									
1/22/2015									
7/21/2015					<0.005		<0.005		
7/22/2015			<0.005						
7/23/2015	<0.005	<0.005		<0.005					
7/24/2015						<0.005		<0.005	
7/27/2015									<0.005
7/28/2015									
7/29/2015									
7/30/2015									
7/31/2015									
1/19/2016									
1/20/2016						<0.005	<0.005	<0.005	
1/21/2016									
1/22/2016									
1/25/2016									
1/26/2016									<0.005
1/27/2016	<0.005	<0.005	<0.005	<0.005					
3/22/2016									
3/23/2016							<0.005		
3/24/2016									
3/28/2016						<0.005		<0.005	
3/29/2016									<0.005
3/30/2016	<0.005	<0.005	<0.005	<0.005					
3/31/2016					<0.005				
5/19/2016							<0.005		
5/20/2016									
5/23/2016								<0.005	
5/24/2016						<0.005			<0.005
5/25/2016			<0.005		<0.005				
5/26/2016	<0.005	<0.005		<0.005					
7/21/2016						<0.0013	0.00062 (J)	<0.0013	
7/22/2016									
7/25/2016	<0.0013	0.00056 (J)		<0.0013					0.00046 (J)
7/26/2016									
7/27/2016			<0.0013		<0.0013				
9/14/2016							<0.0013		
9/15/2016						<0.0013		<0.0013	
9/16/2016			<0.0013						
9/19/2016	<0.0013	<0.0013							<0.0013
9/20/2016				<0.0013					
11/9/2016									
11/10/2016							<0.0013		
11/11/2016									
11/14/2016									
11/15/2016								<0.0013	

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Date	GWC-19	GWC-18	GWC-16	GWC-20	GWA-3 (bg)	GWC-6	GWA-4 (bg)	GWC-5	GWC-9
11/16/2016						<0.0013			<0.0013
11/17/2016	<0.0013	<0.0013	<0.0013	<0.0013					
11/18/2016									
1/17/2017							<0.0013		
1/19/2017									
1/24/2017									
1/25/2017									
1/26/2017						<0.0013		<0.0013	
1/31/2017									0.0011 (J)
2/1/2017		<0.0013	<0.0013						
2/2/2017	<0.0013			<0.0013					
2/3/2017									
3/16/2017							<0.0013		
3/17/2017									
3/22/2017						<0.0013		<0.0013	
3/23/2017									0.00076 (J)
3/24/2017	<0.0013	<0.0013	<0.0013						
3/28/2017				<0.0013					
3/29/2017									
4/27/2017							<0.0013		
4/28/2017									
5/1/2017									
5/2/2017						<0.0013		<0.0013	<0.0013
5/3/2017	<0.0013	<0.0013	<0.0013						
5/4/2017				<0.0013					
7/18/2017									
7/19/2017									
8/1/2017					<0.0013				
8/2/2017							<0.0013		
8/3/2017						<0.0013		<0.0013	
8/4/2017									
8/7/2017	<0.0013	<0.0013	<0.0013	<0.0013					0.00052 (J)
8/8/2017									
10/3/2017					<0.0013				
1/19/2018									
1/22/2018							0.00068 (J)		
1/23/2018						0.00075 (J)		0.0014	
1/24/2018									<0.0013
1/25/2018	<0.0013	<0.0013	<0.0013						
1/26/2018				<0.0013					
6/19/2018							0.0011 (J)		
6/20/2018			0.00084 (J)		0.001 (J)				
6/21/2018	0.0013	0.001 (J)		0.00049 (J)					0.00095 (J)
6/25/2018						<0.0013		<0.0013	
6/26/2018									
6/27/2018									
1/17/2019							<0.0013		
1/18/2019					<0.0013				
1/21/2019									
1/22/2019									0.00059 (J)
1/24/2019									
1/25/2019			<0.0013						



# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-8	GWC-14	GWC-13	GWC-12	GWC-11	GWC-22	GWC-32	GWC-33
8/30/2011									
8/31/2011									
9/7/2011	<0.005	<0.005							
9/13/2011			<0.005	<0.005	<0.005	<0.005			
9/15/2011							<0.005	<0.005	
9/16/2011									<0.005
9/17/2011									
10/26/2011									
10/27/2011			<0.005						
10/28/2011				<0.005	<0.005	<0.005			
10/29/2011							<0.005		
10/30/2011	<0.005	<0.005							<0.005
10/31/2011								<0.005	
12/3/2011			<0.005						
12/4/2011				<0.005	<0.005	<0.005			
12/5/2011	<0.005	<0.005							
12/12/2011									
12/13/2011							<0.005	<0.005	<0.005
12/14/2011									
1/19/2012		<0.005							
1/24/2012			<0.005	<0.005	<0.005				
1/25/2012	<0.005						<0.005		
1/31/2012									
2/1/2012								<0.005	<0.005
2/7/2012									
2/8/2012									
2/9/2012						<0.005			
7/11/2012			<0.0025	<0.0025	<0.0025				
7/16/2012									
7/17/2012								<0.0025	<0.0025
7/18/2012	<0.0025	<0.0025				<0.0025	<0.0025		
7/23/2012									
7/24/2012									
1/7/2013	<0.005	<0.005							
1/8/2013			<0.005	<0.005	<0.005	<0.005			
1/9/2013									
1/22/2013							<0.005		
1/23/2013								<0.005	<0.005
1/24/2013									
7/2/2013									
7/9/2013	<0.005	<0.005				<0.005			
7/10/2013			<0.005	<0.005	<0.005				
7/16/2013							<0.005		
7/17/2013									<0.005
7/23/2013									
7/24/2013								<0.005	
1/14/2014	<0.005	<0.005							
1/15/2014						<0.005			
1/21/2014			<0.005	<0.005	<0.005		<0.005		
1/22/2014									
1/23/2014								<0.005	<0.005
6/24/2014	<0.005	<0.005							



# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-8	GWC-14	GWC-13	GWC-12	GWC-11	GWC-22	GWC-32	GWC-33
6/25/2014						<0.005	<0.005		
7/1/2014			<0.005	<0.005	<0.005			<0.005	
7/8/2014									
1/13/2015									
1/14/2015			<0.005				<0.005		
1/20/2015	<0.005	<0.005						<0.005	<0.005
1/21/2015				<0.005	<0.005	<0.005			
1/22/2015									
7/21/2015									
7/22/2015			<0.005						
7/23/2015							<0.005		
7/24/2015									
7/27/2015	<0.005	<0.005							
7/28/2015				<0.005	<0.005	<0.005			
7/29/2015									<0.005
7/30/2015								<0.005	
7/31/2015									
1/19/2016									
1/20/2016									
1/21/2016									
1/22/2016									
1/25/2016								<0.005	<0.005
1/26/2016	<0.005	<0.005			<0.005	<0.005	<0.005		
1/27/2016			<0.005	<0.005					
3/22/2016									
3/23/2016								<0.005	<0.005
3/24/2016									
3/28/2016									
3/29/2016	<0.005	<0.005		<0.005	<0.005	0.00165 (J)			
3/30/2016			<0.005						
3/31/2016							<0.005		
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	<0.005	<0.005						<0.005	<0.005
5/25/2016			<0.005	<0.005	<0.005	0.00191 (J)			
5/26/2016							<0.005		
7/21/2016									
7/22/2016	0.00049 (J)				0.00047 (J)			<0.0013	<0.0013
7/25/2016						0.0016			
7/26/2016		<0.0013	0.00096 (J)	<0.0013			<0.0013		
7/27/2016									
9/14/2016									
9/15/2016	<0.0013		<0.0013	<0.0013	<0.0013				
9/16/2016								<0.0013	<0.0013
9/19/2016		<0.0013				0.0021			
9/20/2016							<0.0013		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016								<0.0013	

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-8	GWC-14	GWC-13	GWC-12	GWC-11	GWC-22	GWC-32	GWC-33
11/16/2016	<0.0013	<0.0013							
11/17/2016			<0.0013	<0.0013	<0.0013	0.0012 (J)	<0.0013		<0.0013
11/18/2016									
1/17/2017									
1/19/2017									
1/24/2017									
1/25/2017									<0.0013
1/26/2017	<0.0013	<0.0013						<0.0013	
1/31/2017				<0.0013	<0.0013	0.001 (J)			
2/1/2017			<0.0013						
2/2/2017									
2/3/2017							<0.0013		
3/16/2017									
3/17/2017									
3/22/2017	<0.0013								
3/23/2017		<0.0013	<0.0013	0.00067 (J)	<0.0013	0.00076 (J)			<0.0013
3/24/2017								<0.0013	
3/28/2017							<0.0013		
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									<0.0013
5/2/2017	<0.0013					0.0012 (J)		<0.0013	
5/3/2017		<0.0013	<0.0013	<0.0013	0.0024		<0.0013		
5/4/2017									
7/18/2017									
7/19/2017									
8/1/2017									
8/2/2017									
8/3/2017								<0.0013	
8/4/2017	<0.0013			<0.0013					<0.0013
8/7/2017		<0.0013	<0.0013		<0.0013	0.0018			
8/8/2017							<0.0013		
10/3/2017									
1/19/2018									
1/22/2018									
1/23/2018	0.0012 (J)							0.00078 (J)	0.0013
1/24/2018		<0.0013			<0.0013	0.0011 (J)			
1/25/2018			<0.0013	<0.0013			<0.0013		
1/26/2018									
6/19/2018									
6/20/2018			<0.0013	0.0012 (J)		0.002	0.00073 (J)		
6/21/2018		0.00052 (J)							
6/25/2018	<0.0013								
6/26/2018					<0.0013			<0.0013	<0.0013
6/27/2018									
1/17/2019									
1/18/2019									
1/21/2019	<0.0013								
1/22/2019		<0.0013	0.00041 (J)	<0.0013					
1/24/2019						0.00065 (J)	<0.0013		
1/25/2019					<0.0013				





# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWA-28 (bg)	GWC-35	GWC-34	GWA-1 (bg)	GWC-26	GWA-2 (bg)	GWC-31	GWA-29 (bg)
6/25/2014			<0.005	<0.005	<0.005				
7/1/2014	<0.005	<0.005					<0.005	<0.005	
7/8/2014						<0.005			<0.005 (D)
1/13/2015									
1/14/2015			<0.005	<0.005	<0.005				
1/20/2015									
1/21/2015		<0.005				<0.005		<0.005	<0.005
1/22/2015	<0.005						<0.005		
7/21/2015		<0.005			<0.005				
7/22/2015							<0.005		<0.005
7/23/2015									
7/24/2015									
7/27/2015									
7/28/2015			<0.005						
7/29/2015	<0.005			<0.005					
7/30/2015									
7/31/2015						<0.005			
1/19/2016									<0.005 (D)
1/20/2016							<0.005		
1/21/2016	<0.005		<0.005	<0.005	<0.005				
1/22/2016		<0.005							
1/25/2016						<0.005		<0.005	
1/26/2016									
1/27/2016									
3/22/2016		<0.005							<0.005
3/23/2016					<0.005		<0.005		
3/24/2016			<0.005	<0.005		<0.005			
3/28/2016									
3/29/2016	<0.005								
3/30/2016								<0.005	
3/31/2016									
5/19/2016									<0.005
5/20/2016					<0.005				
5/23/2016		<0.005	<0.005	<0.005					
5/24/2016							<0.005		
5/25/2016	<0.005					<0.005		<0.005	
5/26/2016									
7/21/2016			<0.0013	<0.0013	<0.0013				<0.0013
7/22/2016									
7/25/2016		<0.0013							
7/26/2016						<0.0013	<0.0013		
7/27/2016	<0.0013							0.00055 (J)	
9/14/2016									
9/15/2016		<0.0013	<0.0013	<0.0013	<0.0013				
9/16/2016							<0.0013		
9/19/2016						<0.0013			
9/20/2016	<0.0013								
11/9/2016		<0.0013							
11/10/2016							<0.0013		
11/11/2016					<0.0013				
11/14/2016						<0.0013			
11/15/2016			<0.0013	<0.0013					



# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-23	GWA-28 (bg)	GWC-35	GWC-34	GWA-1 (bg)	GWC-26	GWA-2 (bg)	GWC-31	GWA-29 (bg)
1/28/2019				<0.0013					
1/30/2019									
1/31/2019								<0.0013	

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-24
8/30/2011		
8/31/2011		
9/7/2011		
9/13/2011		
9/15/2011		
9/16/2011		
9/17/2011	<0.005	
10/26/2011		
10/27/2011		
10/28/2011		
10/29/2011		
10/30/2011		
10/31/2011	<0.005	
12/3/2011		
12/4/2011		
12/5/2011		
12/12/2011		
12/13/2011		
12/14/2011	<0.005	
1/19/2012		
1/24/2012		
1/25/2012		
1/31/2012		
2/1/2012		
2/7/2012	<0.005	
2/8/2012		
2/9/2012		
7/11/2012		
7/16/2012		
7/17/2012	<0.0025	
7/18/2012		
7/23/2012		
7/24/2012		
1/7/2013		
1/8/2013		
1/9/2013		
1/22/2013		
1/23/2013		
1/24/2013		
7/2/2013		
7/9/2013		
7/10/2013		
7/16/2013		
7/17/2013		
7/23/2013		
7/24/2013	<0.005	
1/14/2014		
1/15/2014		
1/21/2014		
1/22/2014		
1/23/2014	<0.005	
6/24/2014		



# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-24
6/25/2014		
7/1/2014		
7/8/2014	<0.005	<0.005
1/13/2015		
1/14/2015		
1/20/2015		
1/21/2015	<0.005	
1/22/2015		
7/21/2015		
7/22/2015		
7/23/2015		
7/24/2015		
7/27/2015		
7/28/2015		
7/29/2015		
7/30/2015	<0.005	
7/31/2015		<0.005
1/19/2016		
1/20/2016		<0.005
1/21/2016	<0.005	
1/22/2016		
1/25/2016		
1/26/2016		
1/27/2016		
3/22/2016		
3/23/2016		
3/24/2016		
3/28/2016	<0.005	
3/29/2016		
3/30/2016		<0.005
3/31/2016		
5/19/2016		
5/20/2016		
5/23/2016		
5/24/2016		
5/25/2016	<0.005	<0.005
5/26/2016		
7/21/2016		
7/22/2016		
7/25/2016		
7/26/2016		
7/27/2016	<0.0013	<0.0013
9/14/2016		
9/15/2016		
9/16/2016		<0.0013
9/19/2016	<0.0013	
9/20/2016		
11/9/2016		
11/10/2016		
11/11/2016		
11/14/2016		
11/15/2016	<0.0013	

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-24
11/16/2016		
11/17/2016		
11/18/2016		0.00055 (J)
1/17/2017		
1/19/2017		
1/24/2017	0.00061 (J)	
1/25/2017		
1/26/2017		
1/31/2017		
2/1/2017		
2/2/2017		
2/3/2017		<0.0013
3/16/2017		
3/17/2017		
3/22/2017		
3/23/2017	<0.0013	
3/24/2017		
3/28/2017		
3/29/2017		<0.0013
4/27/2017		
4/28/2017		
5/1/2017		
5/2/2017	0.00085 (J)	
5/3/2017		
5/4/2017		<0.0013
7/18/2017		
7/19/2017		
8/1/2017		
8/2/2017		
8/3/2017	<0.0013	
8/4/2017		
8/7/2017		
8/8/2017		<0.0013
10/3/2017		
1/19/2018		
1/22/2018		
1/23/2018		
1/24/2018		
1/25/2018	<0.0013	<0.0013
1/26/2018		
6/19/2018		
6/20/2018		
6/21/2018		
6/25/2018		
6/26/2018		
6/27/2018	<0.0013	<0.0013
1/17/2019		
1/18/2019		
1/21/2019		
1/22/2019		
1/24/2019	<0.0013	
1/25/2019		

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-25	GWC-24
1/28/2019		
1/30/2019		
1/31/2019		<0.0013

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-16	GWC-18	GWC-19	GWC-6	GWC-5	GWC-21	GWC-20	GWA-4 (bg)
8/30/2011	0.021	0.018	0.033	0.037					
8/31/2011					0.064	0.024	0.015	0.038	0.092
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	0.014	0.017	0.028	0.037					
10/27/2011						0.026	0.01	0.034	0.061
10/28/2011									
10/29/2011									
10/30/2011					0.06				
10/31/2011									
12/3/2011	0.015	0.018	0.03	0.037					
12/4/2011							0.011	0.033	
12/5/2011					0.061	0.024			
12/12/2011									
12/13/2011									
12/14/2011									0.1
1/19/2012									
1/24/2012									
1/25/2012	0.014	0.017			0.064	0.028			
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	0.015	0.017	0.03	0.035				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	0.017	0.019	0.036	0.059	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	0.013		0.034	0.069			0.023	0.034	
7/17/2013						0.022			0.087
7/23/2013									
7/24/2013									
1/14/2014	0.015	0.017	0.037						
1/15/2014					0.06	0.023			0.081
1/21/2014				0.075			0.026	0.035	
1/22/2014									
1/23/2014									
6/24/2014			0.032				0.027	0.034	

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-16	GWC-18	GWC-19	GWC-6	GWC-5	GWC-21	GWC-20	GWA-4 (bg)
6/25/2014	0.016	0.017			0.045	0.02			0.081
7/1/2014									
7/8/2014									
1/13/2015		0.017	0.034	0.076		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					0.051	0.018			
7/27/2015									
7/28/2015	0.016								
7/29/2015									
7/30/2015									
7/31/2015									
1/19/2016									
1/20/2016					0.051	0.027			0.086
1/21/2016									
1/22/2016									
1/25/2016									
1/26/2016							0.026		
1/27/2016	0.016	0.016	0.032	0.092				0.03	
3/22/2016									
3/23/2016									0.112
3/24/2016									
3/28/2016					0.0506	0.0207			
3/29/2016									
3/30/2016	0.0178	0.0174	0.0349	0.0986			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	0.0169	0.0173							
5/26/2016			0.0323	0.0687			0.0237	0.0336	
7/21/2016					0.049	0.018			0.14
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					0.062	0.037			
9/16/2016		0.016							
9/19/2016	0.016		0.028	0.039					
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 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-16	GWC-18	GWC-19	GWC-6	GWC-5	GWC-21	GWC-20	GWA-4 (bg)
11/16/2016					0.062				
11/17/2016	0.017	0.017	0.033	0.046			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					0.062	0.025			
1/31/2017									
2/1/2017	0.017	0.018	0.037						
2/2/2017				0.085			0.014	0.035	
2/3/2017									
3/16/2017									0.15
3/17/2017									
3/22/2017					0.048	0.02			
3/23/2017									
3/24/2017	0.016	0.017	0.037	0.079					
3/28/2017							0.021	0.031	
3/29/2017									
4/27/2017									0.13
4/28/2017									
5/1/2017									
5/2/2017					0.043	0.02			
5/3/2017	0.016	0.017	0.034	0.1					
5/4/2017							0.02	0.035	
7/18/2017									
7/19/2017									
8/1/2017									
8/2/2017									0.15
8/3/2017					0.049	0.025			
8/4/2017									
8/7/2017	0.017	0.017	0.035	0.06			0.027	0.033	
8/8/2017									
10/3/2017									
1/19/2018									
1/22/2018									0.15
1/23/2018					0.05	0.027			
1/24/2018									
1/25/2018	0.015	0.016	0.033	0.094					
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					0.053	0.02			
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 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWC-7	GWC-8	GWC-9	GWC-12	GWC-11	GWC-13	GWC-14	GWC-32
8/30/2011									
8/31/2011	0.1								
9/7/2011		0.06	0.088	0.13					
9/13/2011					0.013	0.2	0.0043	0.01	
9/15/2011									0.0043
9/16/2011									
9/17/2011									
10/26/2011									
10/27/2011								0.019	
10/28/2011					0.0092	0.27	0.0041		
10/29/2011									
10/30/2011		0.053	0.092	0.02					
10/31/2011									0.0035
12/3/2011								0.011	
12/4/2011				0.11	0.0089	0.22	0.0037		
12/5/2011		0.059	0.11						
12/12/2011									
12/13/2011									0.0036
12/14/2011									
1/19/2012			0.084	0.15					
1/24/2012					0.0099		0.0042	0.015	
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					0.0099		0.0038	0.01	
7/16/2012									
7/17/2012									0.0038
7/18/2012		0.098	0.11	0.11		0.36			
7/23/2012									
7/24/2012									
1/7/2013		0.13	0.095						
1/8/2013				0.14	0.012	0.2	0.0034	0.013	
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					0.014		0.0035	0.014	
7/16/2013									
7/17/2013									
7/23/2013									
7/24/2013									0.0019
1/14/2014		0.14	0.066	0.099					
1/15/2014						0.21			
1/21/2014					0.014		0.0037	<0.0013	
1/22/2014									
1/23/2014									0.0012 (J)
6/24/2014		0.13	0.078	0.2					





# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWC-7	GWC-8	GWC-9	GWC-12	GWC-11	GWC-13	GWC-14	GWC-32
11/16/2016		0.11	0.053	0.18	0.018	0.29			
11/17/2016							0.0027	0.27	
11/18/2016									
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017		0.097	0.043						0.003
1/31/2017				0.1	0.022	0.19	0.0029		
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			0.053	0.12	0.019	0.24	0.0032	0.11	
3/24/2017									0.0021 (J)
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		0.088		0.11		0.34			0.0025
5/3/2017			0.047		0.02		0.0028	0.1	
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			0.048	0.17	0.021	0.4		0.23	
8/8/2017									
10/3/2017	0.038								
1/19/2018									
1/22/2018									
1/23/2018		0.094							0.0027
1/24/2018			0.038	0.14	0.022	0.27			
1/25/2018							0.0037	0.1	
1/26/2018									
6/19/2018									
6/20/2018	0.029					0.31	0.0035	0.25	
6/21/2018			0.058	0.16					
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			0.04	0.11			0.0029	0.15	
1/24/2019						0.09			



# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-30	GWC-35	GWC-23	GWC-34	GWC-33	GWC-15	GWA-28 (bg)	GWA-1 (bg)
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011									
9/15/2011	0.025	0.0074							
9/16/2011			0.019	0.011	0.01	0.0049	0.0061	0.0022	0.013
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			0.02		0.011			0.0018	
12/13/2011	0.027	0.0075		0.011		0.0073			0.012
12/14/2011									
1/19/2012									
1/24/2012									
1/25/2012	0.029							<0.0013	
1/31/2012				0.009					0.011
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			0.02		0.011			0.0011	
7/17/2012						0.012			
7/18/2012	0.027	0.0068		0.0076					0.012
7/23/2012									
7/24/2012									
1/7/2013									
1/8/2013							0.0075		
1/9/2013									
1/22/2013	0.029		0.021	0.0078	0.011				
1/23/2013						0.012			
1/24/2013		0.0083						<0.0013	0.012
7/2/2013			0.019				0.011		
7/9/2013									
7/10/2013									
7/16/2013	0.025								
7/17/2013					0.011	0.012			0.0097
7/23/2013				0.0075				<0.0013	
7/24/2013		0.006							
1/14/2014									
1/15/2014									
1/21/2014	0.027		0.02				0.012		0.0096
1/22/2014				0.004				0.0013	
1/23/2014		0.0051			0.0097	0.0099			
6/24/2014							0.0094		

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-30	GWC-35	GWC-23	GWC-34	GWC-33	GWC-15	GWA-28 (bg)	GWA-1 (bg)
6/25/2014	0.025		0.019		0.011				0.0094
7/1/2014		0.0061		0.0066				0.0012 (J)	
7/8/2014									
1/13/2015									
1/14/2015	0.025		0.019		0.011		0.01		0.0095
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				0.0064	0.011	0.0095			
7/30/2015		0.0059							
7/31/2015									
1/19/2016		0.0075							
1/20/2016									
1/21/2016			0.021	0.0055	0.012				0.011
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)				0.00902 (J)			0.00968 (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			0.0221		0.0119			<0.01	
5/24/2016						0.00573 (J)			
5/25/2016				0.00579 (J)			0.00957 (J)		
5/26/2016	0.0235								
7/21/2016		0.0067	0.019		0.011				0.0087
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			0.02		0.012			0.00092 (J)	0.0086
9/16/2016						0.0061			
9/19/2016									
9/20/2016	0.026	0.007		0.0056			0.007		
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 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-29 (bg)	GWC-25	GWC-26	GWC-27	GWC-31	GWC-24	GWC-10
6/25/2014								
7/1/2014	0.015					0.0048		
7/8/2014		0.0013 (D)	0.046	0.031	0.014		0.022	
1/13/2015								
1/14/2015								
1/20/2015								
1/21/2015		0.0015	0.023	0.031	0.015	0.0022		
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			0.022		0.0092			
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			0.0439	0.0348		0.00502 (J)	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			0.037			0.0033	0.0047	0.03
9/14/2016								
9/15/2016								
9/16/2016	0.017						0.018	0.017
9/19/2016			0.041	0.029	0.008			
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 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-29 (bg)	GWC-25	GWC-26	GWC-27	GWC-31	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			0.032			0.0024 (J)		
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			0.041			0.0026		
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			0.012	0.032	0.015			
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			0.036	0.033	0.015	0.0016 (J)	0.011	
1/17/2019	0.01							
1/18/2019		0.0007 (J)						
1/21/2019								
1/22/2019								
1/24/2019			0.03	0.036	0.009			

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-2 (bg)	GWA-29 (bg)	GWC-25	GWC-26	GWC-27	GWC-31	GWC-24	GWC-10
1/25/2019								
1/28/2019								
1/30/2019								
1/31/2019						0.0016 (J)	0.011	0.025

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-16	GWA-3 (bg)	GWC-6	GWA-4 (bg)	GWC-21	GWC-8	GWC-9	GWC-14
8/30/2011	<0.0013	<0.0013							
8/31/2011			<0.0013	<0.0013	<0.0013	<0.0013			
9/7/2011							<0.0013	<0.0013	
9/13/2011									<0.0013
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	<0.0013	<0.0013							
10/27/2011					<0.0013	<0.0013			<0.0013
10/28/2011									
10/29/2011									
10/30/2011				<0.0013			<0.0013	<0.0013	
10/31/2011									
12/3/2011	<0.0013	<0.0013							<0.0013
12/4/2011						<0.0013		<0.0013	
12/5/2011				<0.0013			<0.0013		
12/12/2011									
12/13/2011									
12/14/2011					<0.0013				
1/19/2012							<0.0013	<0.0013	
1/24/2012									<0.0013
1/25/2012		<0.0013		<0.0013					
1/31/2012									
2/1/2012					<0.0013				
2/7/2012									
2/8/2012	<0.0013					<0.0013			
2/9/2012									
7/11/2012	<0.0013	<0.0013							<0.0013
7/16/2012									
7/17/2012						<0.0013			
7/18/2012							<0.0013	<0.0013	
7/23/2012					<0.0013				
7/24/2012				<0.0013					
1/7/2013							<0.0013		
1/8/2013	<0.0013	<0.0013		<0.0013				<0.0013	<0.0013
1/9/2013						<0.0013			
1/22/2013									
1/23/2013					<0.0013				
1/24/2013									
7/2/2013		<0.0013							
7/9/2013				<0.0013			<0.0013	<0.0013	
7/10/2013									<0.0013
7/16/2013	<0.0013					<0.0013			
7/17/2013					<0.0013				
7/23/2013									
7/24/2013									
1/14/2014		<0.0013					<0.0013	0.00012 (J)	
1/15/2014				<0.0013	<0.0013				
1/21/2014	<0.0013					<0.0013			0.00012 (J)
1/22/2014									
1/23/2014									
6/24/2014	<0.0013					<0.0013	<0.0013	0.00014 (J)	



# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-16	GWA-3 (bg)	GWC-6	GWA-4 (bg)	GWC-21	GWC-8	GWC-9	GWC-14
11/16/2016				<0.0025			<0.0025	<0.0025	
11/17/2016	<0.0025	<0.0025				<0.0025			0.00055 (J)
11/18/2016									
1/17/2017					<0.0025				
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017				<0.0025			<0.0025		
1/31/2017								<0.0025	
2/1/2017		<0.0025							<0.0025
2/2/2017	<0.0025					<0.0025			
2/3/2017									
3/16/2017					<0.0025				
3/17/2017									
3/22/2017				<0.0025					
3/23/2017							<0.0025	<0.0025	<0.0025
3/24/2017	<0.0025	<0.0025							
3/28/2017						<0.0025			
3/29/2017									
4/27/2017					<0.0025				
4/28/2017									
5/1/2017									
5/2/2017				<0.0025				<0.0025	
5/3/2017	<0.0025	<0.0025					<0.0025		<0.0025
5/4/2017						<0.0025			
7/18/2017									
7/19/2017									
8/1/2017			<0.0025						
8/2/2017					<0.0025				
8/3/2017				<0.0025					
8/4/2017									
8/7/2017	<0.0025	<0.0025				<0.0025	<0.0025	<0.0025	0.00059 (J)
8/8/2017									
10/3/2017			<0.0025						
1/19/2018									
1/22/2018					<0.0025				
1/23/2018				<0.0025					
1/24/2018							<0.0025	<0.0025	
1/25/2018	<0.0025	<0.0025							<0.0025
1/26/2018						<0.0025			
6/19/2018					<0.0025				
6/20/2018		<0.0025	<0.0025			<0.0025			0.00064 (J)
6/21/2018	<0.0025						<0.0025	<0.0025	
6/25/2018				<0.0025					
6/26/2018									
6/27/2018									
1/17/2019					<0.0025				
1/18/2019			<0.0025						
1/21/2019									
1/22/2019							5.8E-05 (J)	7.9E-05 (J)	0.0004 (J)
1/24/2019						7.9E-05 (J)			







# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-32	GWC-30	GWC-35	GWC-33	GWC-34	GWA-1 (bg)	GWA-28 (bg)	GWC-23
6/25/2014	8.3E-05 (J)			<0.0013		<0.0013	<0.0013		
7/1/2014		0.00062 (J)	<0.0013					0.00039 (J)	<0.0013
7/8/2014									
1/13/2015									
1/14/2015				<0.0013		<0.0013	<0.0013		
1/20/2015		0.00066 (J)	<0.0013		0.00091 (J)				
1/21/2015	<0.0013							0.0005 (J)	
1/22/2015									<0.0013
7/21/2015							<0.0013	0.00042 (J)	
7/22/2015									
7/23/2015									
7/24/2015									
7/27/2015									
7/28/2015	<0.0013			8.5E-05 (J)					
7/29/2015					0.0011 (J)	0.00011 (J)			8E-05 (J)
7/30/2015		0.001 (J)	<0.0013						
7/31/2015									
1/19/2016			9E-05 (J)						
1/20/2016									
1/21/2016				8.5E-05 (J)		0.00012 (J)	7.5E-05 (J)		<0.0013
1/22/2016								0.00044 (J)	
1/25/2016		0.00066 (J)			0.00075 (J)				
1/26/2016	<0.0013								
1/27/2016									
3/22/2016								<0.003	
3/23/2016		0.000735 (J)	<0.003		0.000892 (J)		<0.003		
3/24/2016				<0.003		<0.003			
3/28/2016									
3/29/2016	<0.003								<0.003
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016			<0.003				<0.003		
5/23/2016				<0.003		<0.003		<0.003	
5/24/2016		0.00134 (J)			0.00065 (J)				
5/25/2016	<0.003								<0.003
5/26/2016									
7/21/2016			<0.0025	<0.0025		<0.0025	<0.0025		
7/22/2016		0.0012 (J)			0.0011 (J)				
7/25/2016	<0.0025							0.00037 (J)	
7/26/2016									
7/27/2016									<0.0025
9/14/2016									
9/15/2016				<0.0025		<0.0025	<0.0025	0.00039 (J)	
9/16/2016		0.0015 (J)			0.001 (J)				
9/19/2016	<0.0025								
9/20/2016			<0.0025						<0.0025
11/9/2016								0.00041 (J)	
11/10/2016									
11/11/2016							<0.0025		
11/14/2016			<0.0025						
11/15/2016		0.0015 (J)		<0.0025		<0.0025			





# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWA-2 (bg)	GWC-26	GWC-27	GWC-31	GWA-29 (bg)	GWC-24
8/30/2011							
8/31/2011							
9/7/2011							
9/13/2011							
9/15/2011							
9/16/2011							
9/17/2011	<0.0013	<0.0013	<0.0013	0.0066	<0.0013	<0.0013	
10/26/2011							
10/27/2011		<0.0013					
10/28/2011						<0.0013	
10/29/2011			<0.0013	0.0055			
10/30/2011							
10/31/2011	<0.0013				<0.0013		
12/3/2011							
12/4/2011							
12/5/2011							
12/12/2011						0.0015	
12/13/2011							
12/14/2011	<0.0013	<0.0013	<0.0013	0.0058			
1/19/2012							
1/24/2012							
1/25/2012				0.006			
1/31/2012						0.0016	
2/1/2012							
2/7/2012	<0.0013	<0.0013	<0.0013		<0.0013		
2/8/2012							
2/9/2012							
7/11/2012							
7/16/2012							
7/17/2012	<0.0013		<0.0013	<0.0013		0.002	
7/18/2012							
7/23/2012		<0.0013					
7/24/2012							
1/7/2013							
1/8/2013							
1/9/2013							
1/22/2013							
1/23/2013		<0.0013			<0.0013		
1/24/2013			<0.0013	<0.0013		0.0025	
7/2/2013							
7/9/2013							
7/10/2013							
7/16/2013							
7/17/2013							
7/23/2013							
7/24/2013	<0.0013	<0.0013	<0.0013	0.0027		0.0027	
1/14/2014							
1/15/2014							
1/21/2014							
1/22/2014		<0.0013				0.002	
1/23/2014	<0.0013		<0.0013	0.0047	0.00099 (J)		
6/24/2014							

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWA-2 (bg)	GWC-26	GWC-27	GWC-31	GWA-29 (bg)	GWC-24
6/25/2014							
7/1/2014		<0.0013			0.0011 (J)		
7/8/2014	<0.0013		<0.0013	0.005		0.0024 (D)	8.3E-05 (J)
1/13/2015							
1/14/2015							
1/20/2015							
1/21/2015	<0.0013		<0.0013	0.0053	0.00082 (J)	0.0026	
1/22/2015		0.00011 (J)					
7/21/2015							
7/22/2015		<0.0013				0.0024	
7/23/2015							
7/24/2015							
7/27/2015							
7/28/2015							
7/29/2015							
7/30/2015	<0.0013			0.0013			
7/31/2015			<0.0013				0.00012 (J)
1/19/2016						0.0024 (D)	
1/20/2016		0.00012 (J)					9.3E-05 (J)
1/21/2016	<0.0013						
1/22/2016				0.00038 (J)			
1/25/2016			<0.0013		0.00061 (J)		
1/26/2016							
1/27/2016							
3/22/2016						0.00194 (J)	
3/23/2016		<0.003		0.00229 (J)			
3/24/2016			<0.003				
3/28/2016	<0.003						
3/29/2016							
3/30/2016					<0.003		<0.003
3/31/2016							
5/19/2016						0.00188 (J)	
5/20/2016							
5/23/2016							
5/24/2016		<0.003		<0.003			
5/25/2016	<0.003		<0.003		<0.003		<0.003
5/26/2016							
7/21/2016						0.0021 (J)	
7/22/2016							
7/25/2016							
7/26/2016		<0.0025	<0.0025	0.0015 (J)			
7/27/2016	<0.0025				0.00076 (J)		<0.0025
9/14/2016							
9/15/2016							
9/16/2016		<0.0025					<0.0025
9/19/2016	<0.0025		<0.0025	0.0013 (J)			
9/20/2016							
11/9/2016							
11/10/2016		<0.0025					
11/11/2016				0.0057			
11/14/2016			<0.0025				
11/15/2016	<0.0025						

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWA-2 (bg)	GWC-26	GWC-27	GWC-31	GWA-29 (bg)	GWC-24
11/16/2016							
11/17/2016							
11/18/2016							<0.0025
1/17/2017						0.0024 (J)	
1/19/2017		<0.0025	<0.0025				
1/20/2017				0.003			
1/24/2017	<0.0025						
1/25/2017					0.00064 (J)		
1/26/2017							
1/31/2017							
2/1/2017							
2/2/2017							
2/3/2017							<0.0025
3/16/2017			<0.0025	0.0018 (J)			
3/17/2017		<0.0025					
3/22/2017							
3/23/2017	<0.0025				0.00067 (J)		
3/24/2017							
3/28/2017							
3/29/2017							<0.0025
4/27/2017						0.0019 (J)	
4/28/2017		<0.0025		0.00075 (J)			
5/1/2017			<0.0025				
5/2/2017	<0.0025				0.00077 (J)		
5/3/2017							
5/4/2017							<0.0025
7/18/2017						0.0018 (J)	
7/19/2017					0.00083 (J)		
8/1/2017						0.0019 (J)	
8/2/2017		<0.0025					
8/3/2017	<0.0025		<0.0025	0.005			
8/4/2017					0.0011 (J)		
8/7/2017							
8/8/2017							<0.0025
10/3/2017							
1/19/2018		<0.0025		0.0057		0.0018 (J)	
1/22/2018			<0.0025				
1/23/2018					0.001 (J)		
1/24/2018							
1/25/2018	<0.0025						<0.0025
1/26/2018							
6/19/2018		<0.0025				0.0021 (J)	
6/20/2018							
6/21/2018							
6/25/2018							
6/26/2018							
6/27/2018	<0.0025		<0.0025	0.005	0.00071 (J)		<0.0025
1/17/2019		<0.0025					
1/18/2019						0.0021 (J)	
1/21/2019							
1/22/2019							
1/24/2019	6.7E-05 (J)		8.1E-05 (J)	0.00039 (J)			

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-25	GWA-2 (bg)	GWC-26	GWC-27	GWC-31	GWA-29 (bg)	GWC-24
1/25/2019							
1/28/2019							
1/30/2019							
1/31/2019					0.00057 (J)		<0.0025

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWA-4 (bg)	GWC-33	GWA-2 (bg)	GWC-25	GWC-11	GWC-12
3/22/2016	<0.1	<0.1							
3/23/2016			<0.1	<0.1	<0.1	<0.1			
3/28/2016							<0.1		
3/29/2016								<0.1	<0.1
3/30/2016									
3/31/2016									
5/19/2016	<0.1			<0.1					
5/20/2016			<0.1						
5/23/2016		<0.1							
5/24/2016					<0.1	<0.1			
5/25/2016							<0.1	<0.1	<0.1
7/21/2016	<0.05		<0.05	<0.05					
7/22/2016					<0.05				<0.05
7/25/2016		<0.05						<0.05	
7/26/2016						<0.05			
7/27/2016							<0.05		
9/14/2016				<0.05					
9/15/2016		<0.05	<0.05						<0.05
9/16/2016					<0.05	<0.05			
9/19/2016							<0.05	<0.05	
9/20/2016									
11/9/2016		<0.05							
11/10/2016				<0.05		<0.05			
11/11/2016			<0.05						
11/15/2016							<0.05		
11/16/2016								<0.05	<0.05
11/17/2016					0.023 (J)				
1/17/2017	<0.05	<0.05		<0.05					
1/19/2017			<0.05			<0.05			
1/24/2017							<0.05		
1/25/2017					<0.05				
1/26/2017									
1/31/2017								<0.05	<0.05
2/1/2017									
3/16/2017		<0.05	<0.05	<0.05					
3/17/2017						<0.05			
3/23/2017					<0.05		<0.05	<0.05	<0.05
4/27/2017	<0.05	<0.05		<0.05					
4/28/2017			<0.05			<0.05			
5/1/2017					<0.05				
5/2/2017							<0.05	<0.05	
5/3/2017									<0.05
7/18/2017	0.027 (J)								
8/1/2017	<0.05								
8/4/2017					<0.05				
10/3/2017	<0.05	<0.05		<0.05		<0.05			
10/4/2017			<0.05					0.022 (J)	0.022 (J)
10/5/2017					0.025 (J)		<0.05		
1/19/2018	<0.05	<0.05	<0.05			<0.05			
1/22/2018				<0.05					
1/23/2018					<0.05				
1/24/2018								<0.05	0.023 (J)



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWA-4 (bg)	GWC-33	GWA-2 (bg)	GWC-25	GWC-11	GWC-12
1/25/2018							<0.05		
6/19/2018	<0.05	<0.05	<0.05	<0.05		<0.05			
6/20/2018								<0.05	
6/21/2018									
6/26/2018					<0.05				0.024 (J)
6/27/2018							<0.05		
9/25/2018	<0.05	<0.05	<0.05	<0.05		<0.05			
9/26/2018							0.023 (J)		
9/27/2018								<0.05	
9/28/2018									<0.05
10/1/2018									
10/2/2018					<0.05				
1/17/2019			<0.05	<0.05		<0.05			
1/18/2019	<0.05								
1/21/2019		<0.05							
1/22/2019									
1/24/2019							<0.05	<0.05	
1/25/2019									0.036 (J)
1/30/2019					<0.05				

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-8	GWC-14	GWC-15	GWA-3 (bg)
3/22/2016					
3/23/2016					
3/28/2016					
3/29/2016	0.0635 (J)	<0.1			
3/30/2016			0.291	0.0787 (J)	
3/31/2016					<0.1
5/19/2016					
5/20/2016					
5/23/2016					
5/24/2016	0.0981 (J)	0.022 (J)			
5/25/2016			0.443	0.0536 (J)	<0.1
7/21/2016					
7/22/2016					
7/25/2016	0.26				
7/26/2016		<0.05	1.1	<0.05	
7/27/2016					<0.05
9/14/2016					
9/15/2016			0.61		
9/16/2016					
9/19/2016	0.38	<0.05			
9/20/2016				<0.05	
11/9/2016					
11/10/2016					
11/11/2016					
11/15/2016					
11/16/2016	0.44	<0.05			
11/17/2016			1	<0.05	
1/17/2017					
1/19/2017					
1/24/2017					
1/25/2017					
1/26/2017		<0.05			
1/31/2017	0.11				
2/1/2017			0.29	0.023 (J)	
3/16/2017					
3/17/2017					
3/23/2017	0.071	<0.05	0.44	0.042 (J)	
4/27/2017					
4/28/2017					
5/1/2017					
5/2/2017	0.089				
5/3/2017		<0.05	0.44	0.034 (J)	
7/18/2017					
8/1/2017					<0.05
8/4/2017					
10/3/2017	0.12				<0.05
10/4/2017			0.95	0.044 (J)	
10/5/2017		<0.05			
1/19/2018					
1/22/2018					
1/23/2018					
1/24/2018	0.044 (J)	<0.05			

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-9	GWC-8	GWC-14	GWC-15	GWA-3 (bg)
1/25/2018			0.43	0.052	
6/19/2018					
6/20/2018			1.2	<0.05	<0.05
6/21/2018	0.07	<0.05			
6/26/2018					
6/27/2018					
9/25/2018					
9/26/2018	0.14	<0.05			
9/27/2018					
9/28/2018					
10/1/2018			0.57	0.03 (J)	
10/2/2018					
1/17/2019					
1/18/2019					<0.05
1/21/2019					
1/22/2019	0.038 (J)	<0.05	0.63	0.1	
1/24/2019					
1/25/2019					
1/30/2019					

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-11	GWC-14	GWA-1 (bg)	GWA-28 (bg)	GWA-2 (bg)	GWA-29 (bg)	GWC-24
8/31/2011	<0.0013	<0.0013							
9/13/2011			<0.0013	<0.0013					
9/16/2011					<0.0013	<0.0013			
9/17/2011							<0.0013	<0.0013	
10/27/2011		<0.0013		<0.0013	<0.0013		<0.0013		
10/28/2011			<0.0013			<0.0013		<0.0013	
12/3/2011				<0.0013					
12/4/2011			<0.0013						
12/12/2011						<0.0013		<0.0013	
12/13/2011					<0.0013				
12/14/2011		<0.0013					<0.0013		
1/24/2012				<0.0013					
1/25/2012						<0.0013			
1/31/2012					<0.0013			<0.0013	
2/1/2012		<0.0013							
2/7/2012							<0.0013		
2/9/2012			<0.0005						
7/11/2012				<0.0005					
7/16/2012						<0.0013			
7/17/2012								<0.0013	
7/18/2012			<0.0013		<0.0013				
7/23/2012		<0.0013					<0.0013		
1/8/2013			<0.0013	<0.0013					
1/23/2013		<0.0013					<0.0013		
1/24/2013					<0.0013	<0.0013		<0.0013	
7/9/2013			<0.0013						
7/10/2013				<0.0013					
7/17/2013		<0.0013			<0.0013				
7/23/2013						<0.0013			
7/24/2013							<0.0013	<0.0013	
1/15/2014		<0.0013	<0.0013						
1/21/2014				<0.0013	<0.0013				
1/22/2014						<0.0013	<0.0013	<0.0013	
6/25/2014	<0.0013	<0.0013	<0.0013		<0.0013				
7/1/2014				<0.0013		<0.0013	<0.0013		
7/8/2014								<0.0013 (D)	<0.0013
1/14/2015		<0.0013		<0.0013	<0.0013				
1/21/2015			0.0014			<0.0013		<0.0013	
1/22/2015							<0.0013		
7/21/2015	0.00042 (J)	<0.0013			<0.0013	<0.0013			
7/22/2015				0.00028 (J)			<0.0013	<0.0013	
7/28/2015			0.0022						
7/31/2015									<0.0013
1/19/2016								<0.0013 (D)	
1/20/2016		<0.0013					<0.0013		<0.0013
1/21/2016					<0.0013				
1/22/2016						<0.0013			
1/26/2016			<0.0013						
1/27/2016				<0.0013					
3/22/2016						<0.001		<0.001	
3/23/2016		<0.001			<0.001		<0.001		
3/29/2016			<0.001						

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-11	GWC-14	GWA-1 (bg)	GWA-28 (bg)	GWA-2 (bg)	GWA-29 (bg)	GWC-24
3/30/2016				0.000222 (J)					0.000124 (J)
3/31/2016	0.000546 (J)								
5/19/2016		<0.001						0.000111 (J)	
5/20/2016					<0.001				
5/23/2016						<0.001			
5/24/2016							<0.001		
5/25/2016	0.000137 (J)		<0.001	0.000327 (J)					<0.001
7/21/2016		<0.0025			<0.0025			<0.0025	
7/25/2016			<0.0025			<0.0025			
7/26/2016				<0.0025			<0.0025		
7/27/2016	<0.0025								<0.0025
9/14/2016		<0.0025							
9/15/2016				0.00053 (J)	<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						
11/17/2016				<0.0025					
11/18/2016									<0.0025
1/17/2017		<0.0025				<0.0025		<0.0025	
1/19/2017					<0.0025		<0.0025		
1/31/2017			<0.0025						
2/1/2017				<0.0025					
2/3/2017									0.0021 (J)
3/16/2017		<0.0025			<0.0025	<0.0025			
3/17/2017							<0.0025		
3/23/2017			<0.0025	<0.0025					
3/29/2017									<0.0025
4/27/2017		<0.0025				<0.0025		<0.0025	
4/28/2017					<0.0025		<0.0025		
5/2/2017			<0.0025						
5/3/2017				<0.0025					
5/4/2017									<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	0.00051 (J)					
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						
1/25/2018				<0.0025					<0.0025
6/19/2018		<0.0025			0.0005 (J)	<0.0025	<0.0025	<0.0025	
6/20/2018	<0.0025		<0.0025	0.00047 (J)					
6/27/2018									<0.0025
1/17/2019		<0.0025			<0.0025		<0.0025		
1/18/2019	<0.0025							<0.0025	
1/21/2019						<0.0025			



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-32	GWC-30	GWC-27	GWA-4 (bg)	GWA-2 (bg)	GWC-33
3/22/2016	4.65	2.86							
3/23/2016			0.893	5.18	3.03	1.73	24.2	3.09	13.8
3/24/2016									
3/28/2016									
3/29/2016									
3/30/2016									
3/31/2016									
5/19/2016	5.08						33.6		
5/20/2016			0.784		3.37				
5/23/2016		2.81							
5/24/2016				6.58		0.745		3.51	9.38
5/25/2016									
5/26/2016									
7/21/2016	4.7		0.6		2.9		30		
7/22/2016				7.1					9
7/25/2016		2.4							
7/26/2016						1.4		3.1	
7/27/2016									
9/14/2016							31		
9/15/2016		2.5	0.7						
9/16/2016				8.7				3.6	11
9/19/2016						1.2			
9/20/2016					3.2				
11/9/2016		2.6							
11/10/2016							27	3.7	
11/11/2016			0.59			3.3			
11/14/2016					2.8				
11/15/2016				6.9					
11/16/2016									
11/17/2016									
11/18/2016									
1/17/2017	3.7	2.4					26		
1/19/2017			0.59					4.2	
1/20/2017						2.2			
1/24/2017					3.1				
1/25/2017									<0.25
1/26/2017				13					
1/31/2017									
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017		2.7	0.72			1	27		
3/17/2017					2.9			3.4	
3/22/2017									
3/23/2017									15
3/24/2017				12					
3/28/2017									
3/29/2017									
4/27/2017	3.9	2.4					27		
4/28/2017			0.72			0.88		3.9	
5/1/2017					3				10
5/2/2017				15					





# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-34	GWC-35	GWC-5	GWC-25	GWC-6	GWC-7	GWC-23	GWC-9
3/22/2016									
3/23/2016									
3/24/2016	1.72	3.27	1.97						
3/28/2016				23.9	12.3	10.8			
3/29/2016							70.8	3.32	12.6
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	63.2		14.9
5/25/2016	1.68				7.2			3.4	
5/26/2016									
7/21/2016		2.6	1.7	21		12			
7/22/2016							56		
7/25/2016									23
7/26/2016	1.4								
7/27/2016					5.4			2.9	
9/14/2016									
9/15/2016		2.9	1.9	20		16	60		
9/16/2016									
9/19/2016	1.5				8.4				25
9/20/2016								3.3	
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016	1.8								
11/15/2016		2.5	1.8	20	10				
11/16/2016						14	59		28
11/17/2016									
11/18/2016								2.9	
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	16		13	61		
1/31/2017									18
2/1/2017									
2/2/2017									
2/3/2017								3.3	
3/16/2017	1.7								
3/17/2017									
3/22/2017		2.7	1.8	17		12	56		
3/23/2017					13				19
3/24/2017									
3/28/2017								3.1	
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	1.6	3.1							
5/2/2017			2.1	38	41	12	59		18



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-12	GWC-11	GWC-8	GWC-17	GWC-20	GWC-21	GWC-16	GWC-18
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	3.91	32.6	15	27.2					
3/30/2016					8.15	8.78	2.98	6.72	6.88
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016				30.8					
5/25/2016	4.06	38.3	18.5		8.68			7.09	
5/26/2016						9.13	3.16		6.42
7/21/2016									
7/22/2016		32							
7/25/2016			14			7.7			5.3
7/26/2016	3.7			24			2.9		
7/27/2016					7.9			6.4	
9/14/2016									
9/15/2016	3.7	33							
9/16/2016								6.7	
9/19/2016			18	30	7.8				5.4
9/20/2016						8.9	3.6		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016		34	15	30					
11/17/2016	3.5				7.5	7.9	2.8	6.3	5.5
11/18/2016									
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017				29					
1/31/2017	4.1	40	8						
2/1/2017					8.7			6.8	7.3
2/2/2017						8.9	3.3		
2/3/2017									
3/16/2017									
3/17/2017									
3/22/2017									
3/23/2017	3.9	37	9.3	33					
3/24/2017					7.5			6.3	6.4
3/28/2017						7.9	3.2		
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			14						



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-31	GWC-24	GWC-14	GWC-10	GWC-19	GWA-3 (bg)	GWC-22
3/22/2016								
3/23/2016								
3/24/2016								
3/28/2016								
3/29/2016								
3/30/2016	13.3	11.3	1.01	13.8	27.6	8.32		
3/31/2016							39.6	11.5
5/19/2016								
5/20/2016								
5/23/2016								
5/24/2016								
5/25/2016	10.6	12.9	0.69	22.2	28.5		28.3	
5/26/2016						6.78		11.5
7/21/2016								
7/22/2016								
7/25/2016						4.7		
7/26/2016	7.2			28				9.5
7/27/2016		12	0.4		29		22	
9/14/2016								
9/15/2016				30				
9/16/2016			1.3		27			
9/19/2016						4.3		
9/20/2016	6.9							11
11/9/2016								
11/10/2016								
11/11/2016								
11/14/2016								
11/15/2016								
11/16/2016								
11/17/2016	6.1			46	29	4.1		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	9.6			15	26			
2/2/2017						14		
2/3/2017			1.2					11
3/16/2017								
3/17/2017								
3/22/2017								
3/23/2017	9.9	10		18				
3/24/2017					24	8.7		
3/28/2017								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 (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Date	GWC-15	GWC-31	GWC-24	GWC-14	GWC-10	GWC-19	GWA-3 (bg)	GWC-22
5/3/2017	9.4			18	29	9.9		10
5/4/2017			1.6					
7/18/2017								
7/19/2017		10						
8/1/2017							72	
8/4/2017		13						
10/3/2017							91	
10/4/2017	9.3			48	32			
10/5/2017			1.4			7.5		11
10/6/2017		13						
1/19/2018								
1/22/2018								
1/23/2018		11						
1/24/2018								
1/25/2018	11		1.3	19	22	8.5		10
1/26/2018								
6/19/2018								
6/20/2018	11			45			43	10
6/21/2018					13	7.3		
6/25/2018								
6/26/2018								
6/27/2018		9.6	0.38					
9/25/2018								
9/26/2018								
9/27/2018					13	5.9		
9/28/2018			0.81					
10/1/2018	8			22				10
10/2/2018								
10/3/2018		11						
1/17/2019								
1/18/2019							10	
1/21/2019								
1/22/2019	13			25				
1/24/2019								10
1/25/2019								
1/28/2019						9.9		
1/30/2019								
1/31/2019		11	0.39		15			

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-27	GWC-32	GWC-33	GWA-4 (bg)	GWA-2 (bg)	GWC-30
3/22/2016	1.5096	1.3716							
3/23/2016			1.8057	1.0825	1.0533	2.2604	9.041	2.5102	1.3598
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				1.08	1.1			4.52	
5/25/2016									
5/26/2016									
7/21/2016	1.6		1.9				17		1.4
7/22/2016					1.1				
7/25/2016		1.4							
7/26/2016				1.1				4	
7/27/2016									
9/14/2016							17		
9/15/2016		1.3	1.8						
9/16/2016					1.1			4.1	
9/19/2016				1					
9/20/2016									1.3
11/9/2016		1.4							
11/10/2016							23	4.6	
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								4.4	1.3
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	0.96 (J)				4.7	
5/1/2017						2.1			1.3
5/2/2017					0.99 (J)				





# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-26	GWC-34	GWC-25	GWC-6	GWC-5	GWC-9	GWC-13	GWC-12
3/22/2016									
3/23/2016									
3/24/2016	4.4998	2.8217	1.2259						
3/28/2016				5.992	5.312	9.818			
3/29/2016							7.395	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		16.4		
5/25/2016		2.93						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							55		
7/26/2016		3						1.4	
7/27/2016				6.3					
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			73		
9/20/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016		2.8							
11/15/2016	4.2		1.2	3.9		11			
11/16/2016					6.2		83		14
11/17/2016								1.2	
11/18/2016									
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							17	1.2	17
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017		2.7							
3/17/2017									
3/22/2017	3.9		1.1		5.2	8.7			
3/23/2017				3.2			8.2	1.2	20
3/24/2017									
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017		2.8	1.1						
5/2/2017	4			3.5	5.1	13	11		



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-11	GWC-8	GWC-20	GWC-18	GWC-19	GWC-10	GWC-14	GWC-31
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	1.9463	3.4214	3.5914						
3/30/2016				2.0074	1.9012	2.2278	3.7204	49.11	1.9069
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016			3.16						
5/25/2016	1.96	5.33					3.89	65.8	1.89
5/26/2016				2	1.78	1.53			
7/21/2016									
7/22/2016									
7/25/2016		5.8		2.1	1.7	1.5			
7/26/2016			5.9					64	
7/27/2016	2.1						6.5		
9/14/2016									
9/15/2016								110	
9/16/2016							5.9		
9/19/2016		5.2	5.4		1.6	1.4			
9/20/2016	1.9			2					
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016		6.7	6.2						
11/17/2016				1.9	1.5	1.4	7.9	180	
11/18/2016	1.8								
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		2.1							
2/1/2017					1.9		4.9	46	
2/2/2017				1.9		3.1			
2/3/2017	1.9								
3/16/2017									
3/17/2017									
3/22/2017									
3/23/2017		2	3.9					68	
3/24/2017					1.8	2.1	2.6		
3/28/2017	1.8			1.8					
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		3.3							

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-11	GWC-8	GWC-20	GWC-18	GWC-19	GWC-10	GWC-14	GWC-31
5/3/2017			6.1		1.6	1.8	3.9	49	
5/4/2017	1.8			1.9					
7/18/2017									
7/19/2017									1.6
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017									
10/4/2017		3.5					3.9	160	
10/5/2017	1.8		6.4		1.5	1.6			
10/6/2017				1.8					1.7
1/19/2018									
1/22/2018									
1/23/2018									1.4
1/24/2018		2.3	3.5						
1/25/2018	1.6				1.6	1.7	4.2	52	
1/26/2018				1.6					
6/19/2018									
6/20/2018	1.9	3.1						150	
6/21/2018			4.5	1.9	1.5	1.6	4.6		
6/25/2018									
6/26/2018									
6/27/2018									1.5
9/25/2018									
9/26/2018			5.4						
9/27/2018		3.3		1.8		1.3	5.4		
9/28/2018					1.6				
10/1/2018	1.9							74	
10/2/2018									
10/3/2018									1.7
1/17/2019									
1/18/2019									
1/21/2019									
1/22/2019			2.8					80	
1/24/2019		0.94 (J)							
1/25/2019	2								
1/28/2019				2	1.7	2.2			
1/30/2019									
1/31/2019							4		1.3



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-21	GWC-15	GWC-24	GWC-16	GWA-3 (bg)	GWC-22	GWC-7
5/3/2017	1.2		5.1		1.3		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	1.1		4.2					
10/5/2017				3.3	1.3		1.5	
10/6/2017		3.2						
1/19/2018								
1/22/2018								
1/23/2018								18
1/24/2018								
1/25/2018	0.99 (J)		6.5	3.1	1.2		1.3	
1/26/2018		3.3						
6/19/2018								
6/20/2018		3.5	3.4		1.3	12	1.5	
6/21/2018								
6/25/2018								19
6/26/2018	1.1							
6/27/2018				3.8				
9/25/2018								
9/26/2018								
9/27/2018		3.1						
9/28/2018				3.8				
10/1/2018			4.3		1.4		1.6	
10/2/2018	1.2							19
10/3/2018								
1/17/2019								
1/18/2019						19		
1/21/2019								17
1/22/2019			9.1					
1/24/2019	1.2	4.1					1.6	
1/25/2019					1.5			
1/28/2019								
1/30/2019								
1/31/2019				4.1				

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-19	GWC-17	GWC-18	GWA-3 (bg)	GWA-4 (bg)	GWC-6	GWC-21	GWC-5
8/30/2011	0.0028	0.0014	0.0014	0.0014					
8/31/2011					<0.0013	0.0014	<0.0013	0.0014	<0.0013
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	0.0023	<0.0013	<0.0013	<0.0013					
10/27/2011						<0.0013		<0.0013	<0.0013
10/28/2011									
10/29/2011									
10/30/2011									
10/31/2011									
12/3/2011	<0.0013	<0.0013	<0.0013	<0.0013					
12/4/2011								<0.0013	
12/5/2011							<0.0013		<0.0013
12/12/2011									
12/13/2011									
12/14/2011						<0.0013			
1/19/2012									
1/24/2012									
1/25/2012	<0.005		<0.005				<0.005		<0.005
1/31/2012									
2/1/2012						<0.005			
2/7/2012									
2/8/2012		<0.005		<0.005				<0.005	
2/9/2012									
7/11/2012	0.0022	<0.0013	<0.0013	<0.0013					
7/16/2012									
7/17/2012								<0.0013	
7/18/2012									<0.0013
7/23/2012						0.0014			
7/24/2012							<0.0013		
1/7/2013									
1/8/2013	0.0023	<0.0013	<0.0013	<0.0013			<0.0013		
1/9/2013								<0.0013	<0.0013
1/22/2013									
1/23/2013						<0.0013			
1/24/2013									
7/2/2013	0.0024								
7/9/2013							<0.0013		
7/10/2013									
7/16/2013		<0.0013	<0.0013	<0.0013				<0.0013	
7/17/2013						<0.0013			<0.0013
7/23/2013									
7/24/2013									
1/14/2014	0.0023		<0.0013	<0.0013					
1/15/2014						<0.0013	<0.0013		<0.0013
1/21/2014		<0.0013						<0.0013	
1/22/2014									
1/23/2014									
6/24/2014		<0.0013		<0.0013				<0.0013	





# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-19	GWC-17	GWC-18	GWA-3 (bg)	GWA-4 (bg)	GWC-6	GWC-21	GWC-5
11/16/2016							<0.0025		
11/17/2016	0.0022 (J)	<0.0025	<0.0025	<0.0025				<0.0025	
11/18/2016									
1/17/2017						<0.0025			
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017							<0.0025		0.0013 (J)
1/31/2017									
2/1/2017	0.0024 (J)		<0.0025	0.0014 (J)					
2/2/2017		<0.0025						<0.0025	
2/3/2017									
3/16/2017						<0.0025			
3/17/2017									
3/22/2017							<0.0025		
3/23/2017									
3/24/2017	0.0026	<0.0025	<0.0025	<0.0025					
3/28/2017								<0.0025	
3/29/2017									
4/27/2017						<0.0025			
4/28/2017									
5/1/2017									
5/2/2017							<0.0025		<0.0025
5/3/2017	0.0022 (J)	<0.0025	<0.0025	<0.0025					
5/4/2017								<0.0025	
7/18/2017									
7/19/2017									
8/1/2017					<0.0025				
8/2/2017						<0.0025			
8/3/2017							<0.0025		<0.0025
8/4/2017									
8/7/2017	0.0023 (J)	<0.0025	<0.0025	<0.0025				<0.0025	
8/8/2017									
10/3/2017					0.0013 (J)				
1/19/2018									
1/22/2018						<0.0025			
1/23/2018							<0.0025		<0.0025
1/24/2018									
1/25/2018	0.0023 (J)	<0.0025	<0.0025	<0.0025					
1/26/2018								<0.0025	
6/19/2018						<0.0025			
6/20/2018	0.0025				<0.0025			<0.0025	
6/21/2018		<0.0025		<0.0025					
6/25/2018							<0.0025		<0.0025
6/26/2018			<0.0025						
6/27/2018									
1/17/2019						0.0013 (J)			
1/18/2019					0.0017 (J)				
1/21/2019									
1/22/2019									
1/24/2019			0.0014 (J)					0.0012 (J)	



# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-9	GWC-8	GWC-7	GWC-13	GWC-11	GWC-12	GWC-14	GWC-32
8/30/2011									
8/31/2011	0.0016								
9/7/2011		0.0013	<0.0013	<0.0013					
9/13/2011					0.0019	0.0031	<0.0013	<0.0013	
9/15/2011									<0.0013
9/16/2011									
9/17/2011									
10/26/2011									
10/27/2011	<0.0013							<0.0013	
10/28/2011					<0.0013	0.0032	<0.0013		
10/29/2011									
10/30/2011		<0.005	<0.0013	<0.0013					
10/31/2011									<0.0013
12/3/2011								<0.0013	
12/4/2011	<0.0013	0.0021			<0.0013	0.0031	<0.0013		
12/5/2011			<0.0013	<0.0013					
12/12/2011									
12/13/2011									<0.0013
12/14/2011									
1/19/2012		<0.005	<0.005						
1/24/2012					<0.005		<0.005	<0.005	
1/25/2012				<0.005					
1/31/2012									
2/1/2012									<0.005
2/7/2012									
2/8/2012	<0.005								
2/9/2012						<0.005			
7/11/2012	<0.0013				<0.0013		<0.0013	<0.0013	
7/16/2012									
7/17/2012									<0.0013
7/18/2012		<0.0013	<0.0013	<0.0013		<0.0013			
7/23/2012									
7/24/2012									
1/7/2013			<0.0013	<0.0013					
1/8/2013	<0.0013	0.0019			<0.0013	0.0013	<0.0013	<0.0013	
1/9/2013									
1/22/2013									
1/23/2013									<0.0013
1/24/2013									
7/2/2013									
7/9/2013		0.002	<0.0013	<0.0013		<0.0013			
7/10/2013					<0.0013		<0.0013	<0.0013	
7/16/2013	<0.0013								
7/17/2013									
7/23/2013									
7/24/2013									<0.0013
1/14/2014		<0.0013	<0.0013	<0.0013					
1/15/2014						0.0013			
1/21/2014	<0.0013				<0.0013		<0.0013	<0.0013	
1/22/2014									
1/23/2014									<0.0013
6/24/2014	<0.0013	0.0029	<0.0013	0.0018					



# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-9	GWC-8	GWC-7	GWC-13	GWC-11	GWC-12	GWC-14	GWC-32
11/16/2016									
11/17/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.002 (JB)	<0.0025	<0.0025	
11/18/2016									
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017			<0.0025	<0.0025					<0.0025
1/31/2017		0.0015 (J)			<0.0025	0.0022 (J)	<0.0025		
2/1/2017								<0.0025	
2/2/2017	<0.0025								
2/3/2017									
3/16/2017									
3/17/2017									
3/22/2017				<0.0025					
3/23/2017		0.0021 (J)	<0.0025		<0.0025	0.002 (J)	<0.0025	<0.0025	
3/24/2017									<0.0025
3/28/2017	<0.0025								
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		0.0016 (J)		<0.0025		0.0019 (J)			<0.0025
5/3/2017			<0.0025		<0.0025		<0.0025	<0.0025	
5/4/2017	<0.0025								
7/18/2017									
7/19/2017									
8/1/2017									
8/2/2017									
8/3/2017									0.0053
8/4/2017				<0.0025	<0.0025				
8/7/2017	0.0017 (J)	0.0024 (J)	<0.0025			0.0023 (J)	<0.0025	<0.0025	
8/8/2017									
10/3/2017									
1/19/2018									
1/22/2018									
1/23/2018				<0.0025					<0.0025
1/24/2018		0.0019 (J)	<0.0025			0.0019 (J)	<0.0025		
1/25/2018					<0.0025			<0.0025	
1/26/2018	<0.0025								
6/19/2018									
6/20/2018					<0.0025	0.002 (J)		<0.0025	
6/21/2018	<0.0025	0.0023 (J)	<0.0025						
6/25/2018				<0.0025					
6/26/2018							<0.0025		<0.0025
6/27/2018									
1/17/2019									
1/18/2019									
1/21/2019				0.0012 (J)					
1/22/2019		0.0027	0.0014 (J)		0.0013 (J)			0.0013 (J)	
1/24/2019						0.003			



# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-30	GWC-35	GWA-28 (bg)	GWC-34	GWC-33	GWC-23	GWC-15	GWA-1 (bg)
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011									
9/15/2011	<0.0013	<0.0013							
9/16/2011			<0.0013	<0.0013	<0.0013	<0.0013	0.0019	<0.0013	0.0015
9/17/2011									
10/26/2011									
10/27/2011								<0.0013	<0.0013
10/28/2011		<0.005		<0.005					
10/29/2011	<0.0013						<0.0013		
10/30/2011						<0.0013			
10/31/2011			<0.0013		<0.0013				
12/3/2011								<0.0013	
12/4/2011									
12/5/2011									
12/12/2011			<0.0013	<0.0013	<0.0013				
12/13/2011	<0.005	<0.0013				<0.0013	<0.005		<0.0013
12/14/2011									
1/19/2012									
1/24/2012									
1/25/2012	<0.005			<0.005					
1/31/2012							<0.005		<0.005
2/1/2012			<0.005		<0.005	<0.005			
2/7/2012									
2/8/2012		<0.005						<0.005	
2/9/2012									
7/11/2012								<0.0013	
7/16/2012			<0.0013	<0.0013	<0.0013				
7/17/2012						<0.0013			
7/18/2012	0.0016	<0.0013					<0.0013		<0.0013
7/23/2012									
7/24/2012									
1/7/2013									
1/8/2013								<0.0013	
1/9/2013									
1/22/2013	0.0019		<0.0013		<0.0013		<0.0013		
1/23/2013						<0.0013			
1/24/2013		<0.0013		<0.0013					<0.0013
7/2/2013			<0.0013					<0.0013	
7/9/2013									
7/10/2013									
7/16/2013	<0.0013								
7/17/2013					<0.0013	<0.0013			<0.0013
7/23/2013				<0.0013			0.0013		
7/24/2013		<0.0013							
1/14/2014									
1/15/2014									
1/21/2014	<0.0013		<0.0013					<0.0013	<0.0013
1/22/2014				0.002			<0.0013		
1/23/2014		<0.0013			<0.0013	<0.0013			
6/24/2014								<0.0013	

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-30	GWC-35	GWA-28 (bg)	GWC-34	GWC-33	GWC-23	GWC-15	GWA-1 (bg)
6/25/2014	0.0011 (J)		<0.0013		<0.0013				<0.0013
7/1/2014		<0.0013		<0.0013			0.0011 (J)		
7/8/2014									
1/13/2015									
1/14/2015	<0.0013		<0.0013		<0.0013			<0.0013	<0.0013
1/20/2015		<0.0013				0.0013			
1/21/2015				<0.0013					
1/22/2015							<0.0013		
7/21/2015				<0.0013					<0.0013
7/22/2015								<0.0013	
7/23/2015	0.0015								
7/24/2015									
7/27/2015									
7/28/2015			<0.0013						
7/29/2015					<0.0013	0.0028	0.0012 (J)		
7/30/2015		<0.0013							
7/31/2015									
1/19/2016		<0.0013							
1/20/2016									
1/21/2016			<0.0013		<0.0013		<0.0013		<0.0013
1/22/2016				<0.0013					
1/25/2016						0.001 (J)			
1/26/2016	<0.0013								
1/27/2016								<0.0013	
3/22/2016				<0.01					
3/23/2016		<0.01				<0.01			<0.01
3/24/2016			<0.01		<0.01				
3/28/2016									
3/29/2016							0.00226 (J)		
3/30/2016								<0.01	
3/31/2016	<0.01								
5/19/2016									
5/20/2016		<0.01							<0.01
5/23/2016			<0.01	<0.01	<0.01				
5/24/2016						<0.01			
5/25/2016							<0.01	<0.01	
5/26/2016	<0.01								
7/21/2016		<0.0025	<0.0025		<0.0025				<0.0025
7/22/2016						<0.0025			
7/25/2016				<0.0025					
7/26/2016	<0.0025							<0.0025	
7/27/2016							<0.0025		
9/14/2016									
9/15/2016			<0.0025	0.0082	<0.0025				<0.0025
9/16/2016						<0.0025			
9/19/2016									
9/20/2016	0.0011 (J)	0.0011 (J)					<0.0025	<0.0025	
11/9/2016				0.0044					
11/10/2016									
11/11/2016									<0.0025
11/14/2016		<0.0025							
11/15/2016			<0.0025		<0.0025				









# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-25	GWC-26	GWA-29 (bg)	GWC-27	GWA-2 (bg)	GWC-24	GWC-10
6/25/2014								
7/1/2014	0.0046					<0.0013		
7/8/2014		<0.0013	<0.0013	<0.0013 (D)	<0.0013		<0.0013	
1/13/2015								
1/14/2015								
1/20/2015								
1/21/2015	0.0026	<0.0013	<0.0013	<0.0013	<0.0013			
1/22/2015						<0.0013		
7/21/2015								
7/22/2015				<0.0013		<0.0013		
7/23/2015								
7/24/2015								
7/27/2015								
7/28/2015								
7/29/2015								
7/30/2015		<0.0013			<0.0013			
7/31/2015			<0.0013				<0.0013	
1/19/2016				<0.0013 (D)				
1/20/2016						<0.0013	<0.0013	
1/21/2016		0.002						
1/22/2016					<0.0013			
1/25/2016	0.0014		<0.0013					<0.0013
1/26/2016								
1/27/2016								
3/22/2016				<0.01				
3/23/2016					<0.01	<0.01		
3/24/2016			<0.01					
3/28/2016		<0.01						
3/29/2016								
3/30/2016	0.00334 (J)						<0.01	<0.01
3/31/2016								
5/19/2016				0.00684 (J)				
5/20/2016								
5/23/2016								
5/24/2016					<0.01	<0.01		
5/25/2016	0.00321 (J)	<0.01	<0.01				<0.01	<0.01
5/26/2016								
7/21/2016				<0.0025				
7/22/2016								
7/25/2016								
7/26/2016			<0.0025		<0.0025	<0.0025		
7/27/2016	0.0043	<0.0025					<0.0025	0.0029
9/14/2016								
9/15/2016								
9/16/2016						0.0019 (J)	<0.0025	<0.0025
9/19/2016		<0.0025	<0.0025		<0.0025			
9/20/2016								
11/9/2016								
11/10/2016						<0.0025		
11/11/2016					<0.0025			
11/14/2016			<0.0025					
11/15/2016		<0.0025						

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-25	GWC-26	GWA-29 (bg)	GWC-27	GWA-2 (bg)	GWC-24	GWC-10
11/16/2016								
11/17/2016								<0.0025
11/18/2016							<0.0025	
1/17/2017				<0.0025				
1/19/2017			<0.0025			<0.0025		
1/20/2017					<0.0025			
1/24/2017		0.0043						
1/25/2017	0.0027							
1/26/2017								
1/31/2017								
2/1/2017								<0.0025
2/2/2017								
2/3/2017							0.0011 (J)	
3/16/2017			<0.0025		<0.0025			
3/17/2017						<0.0025		
3/22/2017								
3/23/2017	0.0022 (J)	<0.0025						
3/24/2017								<0.0025
3/28/2017								
3/29/2017							<0.0025	
4/27/2017				<0.0025				
4/28/2017					<0.0025	<0.0025		
5/1/2017			<0.0025					
5/2/2017	0.0027	0.015						
5/3/2017								<0.0025
5/4/2017							<0.0025	
7/18/2017				<0.0025				
7/19/2017	0.0019 (J)							
8/1/2017				0.0015 (J)				
8/2/2017						<0.0025		
8/3/2017		<0.0025	<0.0025		<0.0025			
8/4/2017	0.0021 (J)							
8/7/2017								
8/8/2017							<0.0025	<0.0025
10/3/2017								
1/19/2018				<0.0025	<0.0025	<0.0025		
1/22/2018			<0.0025					
1/23/2018	0.012							
1/24/2018								
1/25/2018		<0.0025					<0.0025	<0.0025
1/26/2018								
6/19/2018				<0.0025		0.0011 (J)		
6/20/2018								
6/21/2018								<0.0025
6/25/2018								
6/26/2018								
6/27/2018	0.0017 (J)	<0.0025	<0.0025		<0.0025		<0.0025	
1/17/2019						0.0016 (J)		
1/18/2019				0.002 (J)				
1/21/2019								
1/22/2019								
1/24/2019		0.0026	0.0018 (J)		0.0015 (J)			

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-31	GWC-25	GWC-26	GWA-29 (bg)	GWC-27	GWA-2 (bg)	GWC-24	GWC-10
1/25/2019								
1/28/2019								
1/30/2019								
1/31/2019	0.0031						0.0022 (J)	0.0018 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-21	GWC-5	GWC-20	GWA-3 (bg)	GWC-6	GWA-4 (bg)	GWC-7	GWC-14
8/30/2011	0.0042								
8/31/2011		0.0047	0.02	<0.0025	0.0028	0.013	0.0028		
9/7/2011								<0.0025	
9/13/2011									<0.0025
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	<0.0025								
10/27/2011		0.0032	0.038	<0.0025			<0.0025		
10/28/2011									
10/29/2011									
10/30/2011						0.037		<0.0025	
10/31/2011									
12/3/2011	0.0036								0.0037
12/4/2011		0.003		<0.0025					
12/5/2011			0.04			0.029		<0.0025	
12/12/2011									
12/13/2011									
12/14/2011							<0.0025		
1/19/2012									
1/24/2012									0.021
1/25/2012			0.043			0.018		<0.0025	
1/31/2012									
2/1/2012							0.0027		
2/7/2012									
2/8/2012	<0.0025	0.0035		<0.0025					
2/9/2012									
7/11/2012	<0.005			<0.005					<0.005
7/16/2012									
7/17/2012		0.0043							
7/18/2012			0.028					0.017	
7/23/2012							0.0073		
7/24/2012						0.011			
1/7/2013								0.03	
1/8/2013	0.0017			<0.0013		0.012			<0.0013
1/9/2013		0.0019	0.037						
1/22/2013									
1/23/2013							0.0029		
1/24/2013									
7/2/2013									
7/9/2013						0.017		0.028	
7/10/2013									0.0014
7/16/2013	<0.0013	0.0043		<0.0013					
7/17/2013			0.018				0.0033		
7/23/2013									
7/24/2013									
1/14/2014								0.021	
1/15/2014			0.018			0.017	0.0076		
1/21/2014	0.00055 (J)	0.00093 (J)		<0.0013					
1/22/2014									
1/23/2014									
6/24/2014	0.00071 (J)	<0.0013		0.00071 (J)				0.011	









# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-11	GWC-32	GWC-15	GWC-23	GWA-28 (bg)	GWC-33	GWC-34	GWC-35
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011	<0.0025	0.013							
9/15/2011			<0.0025						
9/16/2011				<0.0025	0.0037	<0.0025	<0.0025	<0.0025	<0.0025
9/17/2011									
10/26/2011									
10/27/2011				<0.0025					
10/28/2011	<0.0025	0.014				<0.0025			
10/29/2011					<0.0025				
10/30/2011							0.0031		
10/31/2011			<0.0025					<0.0025	<0.0025
12/3/2011				<0.0025					
12/4/2011	<0.0025	0.011							
12/5/2011									
12/12/2011						<0.0025		<0.0025	0.0025
12/13/2011			<0.0025		0.003		0.0033		
12/14/2011									
1/19/2012									
1/24/2012	<0.0025								
1/25/2012						<0.0025			
1/31/2012					0.0027				
2/1/2012			<0.0025				<0.0025	<0.0025	<0.0025
2/7/2012									
2/8/2012									
2/9/2012		0.0091		<0.0025					
7/11/2012	<0.005			<0.005					
7/16/2012						<0.0013		<0.0013	0.0017
7/17/2012			<0.0013				0.0037		
7/18/2012		0.0061			0.0021				
7/23/2012									
7/24/2012									
1/7/2013									
1/8/2013	<0.0013	0.0035		<0.0013					
1/9/2013									
1/22/2013					0.002			<0.0013	0.0013
1/23/2013			<0.0013				0.002		
1/24/2013						<0.0013			
7/2/2013				<0.0013					<0.0013
7/9/2013		0.0044							
7/10/2013	<0.0013								
7/16/2013									
7/17/2013							0.0013	<0.0013	
7/23/2013					0.0013	<0.0013			
7/24/2013			<0.0013						
1/14/2014									
1/15/2014		0.0043							
1/21/2014	<0.0013			<0.0013					0.00076 (J)
1/22/2014					0.00035 (J)	<0.0013			
1/23/2014			<0.0013				0.00071 (J)	<0.0013	
6/24/2014				<0.0013					



# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-11	GWC-32	GWC-15	GWC-23	GWA-28 (bg)	GWC-33	GWC-34	GWC-35
11/15/2016			<0.0025					0.00043 (J)	<0.0025
11/16/2016	<0.0025	0.005							
11/17/2016				0.001 (J)			0.0032		
11/18/2016					<0.0025				
1/17/2017						<0.0025			
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017							<0.0025	<0.0025	
1/26/2017			0.0013 (J)						<0.0025
1/31/2017	<0.0025	0.012							
2/1/2017				<0.0025					
2/2/2017									
2/3/2017					<0.0025				
3/16/2017						<0.0025			
3/17/2017									
3/22/2017								<0.0025	<0.0025
3/23/2017	<0.0025	0.013		0.0013 (J)			0.0037		
3/24/2017			0.0012 (J)						
3/28/2017					<0.0025				
3/29/2017									
4/27/2017						<0.0025			
4/28/2017									
5/1/2017							0.0085	<0.0025	
5/2/2017		0.013	0.00095 (J)						<0.0025
5/3/2017	<0.0025			0.00055 (J)					
5/4/2017					<0.0025				
7/18/2017									
7/19/2017									
8/1/2017						<0.0025			
8/2/2017									
8/3/2017			0.00045 (J)					0.027	<0.0025
8/4/2017				0.0018 (J)			0.0023 (J)		
8/7/2017	<0.0025	0.0099							
8/8/2017					<0.0025				
10/3/2017									
1/19/2018						<0.0025			
1/22/2018									
1/23/2018			0.00053 (J)				0.0024 (J)	<0.0025	<0.0025
1/24/2018	<0.0025	0.0047							
1/25/2018				0.00072 (J)	<0.0025				
1/26/2018									
6/19/2018						<0.0025			0.00042 (J)
6/20/2018		0.0063		<0.0025	<0.0025			<0.0025	
6/21/2018									
6/25/2018									
6/26/2018	<0.0025		<0.0025				0.0042		
6/27/2018									
1/17/2019									
1/18/2019									
1/21/2019						<0.0025			0.00025 (J)
1/22/2019				0.00016 (J)					





# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWC-25	GWA-29 (bg)	GWC-26	GWC-31	GWA-2 (bg)	GWC-27	GWC-16	GWC-9
6/25/2014	<0.0013							<0.0013	
7/1/2014					<0.0013	0.00056 (J)			
7/8/2014		0.028	<0.0013	<0.0013			0.0027		
1/13/2015								<0.0013	
1/14/2015	0.00068 (J)								
1/20/2015									0.037
1/21/2015		0.0063	<0.0013	<0.0013	<0.0013		0.0025		
1/22/2015						0.00067 (J)			
7/21/2015	<0.0013								
7/22/2015			<0.0013			<0.0013		<0.0013	
7/23/2015									
7/24/2015									
7/27/2015									0.04
7/28/2015									
7/29/2015									
7/30/2015		0.01					0.003		
7/31/2015				<0.0013					
1/19/2016			<0.0013 (D)						
1/20/2016						<0.0013			
1/21/2016	<0.0013	0.0094							
1/22/2016							0.0018		
1/25/2016				<0.0013	<0.0013				
1/26/2016									0.028
1/27/2016								<0.0013	
3/22/2016			<0.01						
3/23/2016	<0.01					<0.01	0.00275 (J)		
3/24/2016				<0.01					
3/28/2016		0.0117							
3/29/2016									0.0328
3/30/2016					<0.01			<0.01	
3/31/2016									
4/20/2016									
5/19/2016			<0.01						
5/20/2016	<0.01								
5/23/2016									
5/24/2016						<0.01	0.0024 (J)		0.0334
5/25/2016		0.0122		<0.01	<0.01			<0.01	
5/26/2016									
7/21/2016	<0.0025		<0.0025						
7/22/2016									
7/25/2016									0.051
7/26/2016				<0.0025		<0.0025	0.0043		
7/27/2016		0.0065			0.0015 (J)			<0.0025	
9/14/2016									
9/15/2016	<0.0025								
9/16/2016						0.0011 (J)		<0.0025	
9/19/2016		0.0071		<0.0025			0.0024 (J)		0.055
9/20/2016									
11/9/2016									
11/10/2016						<0.0025			
11/11/2016	<0.0025						0.0018 (J)		
11/14/2016				0.00061 (J)					





# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-1 (bg)	GWC-25	GWA-29 (bg)	GWC-26	GWC-31	GWA-2 (bg)	GWC-27	GWC-16	GWC-9
1/24/2019		0.0014 (J)		0.00012 (J)			0.0019 (J)		
1/25/2019								0.00013 (J)	
1/28/2019									
1/30/2019									
1/31/2019					<0.0025				

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-24	GWC-10
8/30/2011			
8/31/2011			
9/7/2011			
9/13/2011			
9/15/2011			
9/16/2011			
9/17/2011			
10/26/2011			
10/27/2011			
10/28/2011			
10/29/2011			
10/30/2011	0.021		
10/31/2011			
12/3/2011			
12/4/2011			
12/5/2011			
12/12/2011			
12/13/2011			
12/14/2011			
1/19/2012	0.028		
1/24/2012			
1/25/2012			
1/31/2012			
2/1/2012			
2/7/2012			
2/8/2012			
2/9/2012			
7/11/2012			
7/16/2012			
7/17/2012			
7/18/2012	0.037		
7/23/2012			
7/24/2012			
1/7/2013	0.037		
1/8/2013			
1/9/2013			
1/22/2013			
1/23/2013			
1/24/2013			
7/2/2013			
7/9/2013	0.065		
7/10/2013			
7/16/2013			
7/17/2013			
7/23/2013			
7/24/2013			
1/14/2014	0.026		
1/15/2014			
1/21/2014			
1/22/2014			
1/23/2014			
6/24/2014	0.034		

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-24	GWC-10
6/25/2014			
7/1/2014			
7/8/2014		0.0023	
1/13/2015			
1/14/2015			
1/20/2015	0.031		
1/21/2015			
1/22/2015			
7/21/2015			
7/22/2015			
7/23/2015			
7/24/2015			
7/27/2015	0.031		
7/28/2015			
7/29/2015			
7/30/2015			
7/31/2015		0.0018	
1/19/2016			
1/20/2016		0.0023	
1/21/2016			
1/22/2016			
1/25/2016			0.0048
1/26/2016	0.021		
1/27/2016			
3/22/2016			
3/23/2016			
3/24/2016			
3/28/2016			
3/29/2016	0.0208		
3/30/2016		<0.01	0.0025 (J)
3/31/2016			
4/20/2016			
5/19/2016			
5/20/2016			
5/23/2016			
5/24/2016	0.0649		
5/25/2016		<0.01	0.00272 (J)
5/26/2016			
7/21/2016			
7/22/2016			
7/25/2016			
7/26/2016	0.044		
7/27/2016		0.00095 (J)	0.0052
9/14/2016			
9/15/2016			
9/16/2016		0.0053	0.0048
9/19/2016	0.059		
9/20/2016			
11/9/2016			
11/10/2016			
11/11/2016			
11/14/2016			

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-24	GWC-10
11/15/2016			
11/16/2016	0.064		
11/17/2016			0.0095
11/18/2016		0.0011 (J)	
1/17/2017			
1/19/2017			
1/20/2017			
1/24/2017			
1/25/2017			
1/26/2017	0.0017 (J)		
1/31/2017			
2/1/2017			0.009
2/2/2017			
2/3/2017		0.00097 (J)	
3/16/2017			
3/17/2017			
3/22/2017			
3/23/2017	0.025		
3/24/2017			0.0026
3/28/2017			
3/29/2017		0.00059 (J)	
4/27/2017			
4/28/2017			
5/1/2017			
5/2/2017			
5/3/2017	0.047		0.0073
5/4/2017		0.0011 (J)	
7/18/2017			
7/19/2017			
8/1/2017			
8/2/2017			
8/3/2017			
8/4/2017			
8/7/2017	0.042		
8/8/2017		0.0011 (J)	0.0037
10/3/2017			
1/19/2018			
1/22/2018			
1/23/2018			
1/24/2018	0.014		
1/25/2018		0.00088 (J)	0.01
1/26/2018			
6/19/2018			
6/20/2018			
6/21/2018	0.04		0.012
6/25/2018			
6/26/2018			
6/27/2018		0.00086 (J)	
1/17/2019			
1/18/2019			
1/21/2019			
1/22/2019	0.013		

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-8	GWC-24	GWC-10
1/24/2019			
1/25/2019			
1/28/2019			
1/30/2019			
1/31/2019		0.0029	0.0063

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-20	GWA-3 (bg)	GWA-4 (bg)	GWC-5	GWC-6	GWC-9	GWC-8	GWC-11
8/30/2011	<0.013								
8/31/2011		<0.013	<0.013	<0.013	<0.013	<0.013			
9/7/2011							<0.013	<0.013	
9/13/2011									<0.013
9/16/2011									
9/17/2011									
10/26/2011	<0.013								
10/27/2011		<0.013		<0.013	<0.013				
10/28/2011									<0.013
10/29/2011									
10/30/2011						<0.013	<0.013	<0.013	
10/31/2011									
12/3/2011	<0.013								
12/4/2011		<0.013					<0.013		<0.013
12/5/2011					<0.013	<0.013		<0.013	
12/12/2011									
12/13/2011									
12/14/2011				<0.013					
1/19/2012							<0.013	<0.013	
1/24/2012									
1/25/2012	<0.013				<0.013	<0.013			
1/31/2012									
2/1/2012				<0.013					
2/7/2012									
2/8/2012		<0.013							
2/9/2012									<0.013
7/11/2012	<0.005	<0.005							
7/16/2012									
7/17/2012									
7/18/2012					<0.005		<0.005	<0.005	<0.005
7/23/2012				<0.005					
7/24/2012						<0.005			
1/7/2013								<0.005	
1/8/2013	<0.005	<0.005				<0.005	<0.005		<0.005
1/9/2013					<0.005				
1/22/2013									
1/23/2013				<0.005					
1/24/2013									
7/2/2013									
7/9/2013						<0.005	<0.005	<0.005	<0.005
7/10/2013									
7/16/2013	<0.005	<0.005							
7/17/2013				<0.005	<0.005				
7/23/2013									
7/24/2013									
1/14/2014	<0.005						<0.005	0.001 (J)	
1/15/2014				<0.005	0.0012 (J)	0.0031 (J)			0.0012 (J)
1/21/2014		<0.005							
1/22/2014									
1/23/2014									
6/24/2014		<0.005					<0.005	<0.005	
6/25/2014	<0.005		0.0016 (J)	<0.005	0.00098 (J)	<0.005			0.0012 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-20	GWA-3 (bg)	GWA-4 (bg)	GWC-5	GWC-6	GWC-9	GWC-8	GWC-11
7/1/2014									
7/8/2014									
1/13/2015		<0.005			0.00095 (J)				
1/14/2015	<0.005			<0.005					
1/20/2015						<0.005	<0.005	0.0014 (J)	
1/21/2015									<0.005
1/22/2015									
7/21/2015			<0.005	<0.005					
7/22/2015									
7/23/2015		<0.005							
7/24/2015					<0.005	<0.005			
7/27/2015							<0.005	<0.005	
7/28/2015	0.00081 (J)								<0.005
7/29/2015									
7/30/2015									
7/31/2015									
1/19/2016									
1/20/2016				<0.005	<0.005	0.0011 (J)			
1/21/2016									
1/22/2016									
1/25/2016									
1/26/2016							0.0022 (J)	0.0013 (J)	0.001 (J)
1/27/2016	<0.005	<0.005							
1/17/2017				<0.0025					
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017					<0.0025	<0.0025		0.0021 (J)	
1/31/2017							0.0021 (J)		<0.0025
2/1/2017	<0.0025								
2/2/2017		<0.0025							
2/3/2017									
8/1/2017			<0.0025						
8/2/2017				<0.0025					
8/3/2017					<0.0025	<0.0025			
8/4/2017									
8/7/2017	<0.0025	0.0054					<0.0025	0.0035	<0.0025
8/8/2017									
1/19/2018									
1/22/2018				<0.0025					
1/23/2018					<0.0025	<0.0025			
1/24/2018							<0.0025	<0.0025	<0.0025
1/25/2018	<0.0025								
1/26/2018		0.0025							
6/19/2018				<0.0025					
6/20/2018			<0.0025						<0.0025
6/21/2018		<0.0025					0.0026	0.0024 (J)	
6/25/2018					<0.0025	<0.0025			
6/26/2018	<0.0025								
6/27/2018									
1/17/2019				<0.002					





# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWA-28 (bg)	GWC-15	GWC-23	GWA-1 (bg)	GWC-35	GWC-33	GWC-31
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011	<0.013	<0.013							
9/16/2011			<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	
9/17/2011									<0.013
10/26/2011									
10/27/2011		<0.013		<0.013		<0.013			
10/28/2011	<0.013		<0.013						
10/29/2011					<0.013				
10/30/2011								<0.013	
10/31/2011							<0.013		<0.013
12/3/2011		<0.013		<0.013					
12/4/2011	<0.013								
12/5/2011									
12/12/2011			<0.013				<0.013		
12/13/2011					<0.013	<0.013		<0.013	
12/14/2011									
1/19/2012									
1/24/2012	<0.013	<0.013							
1/25/2012			<0.013						
1/31/2012					<0.013	<0.013			
2/1/2012							<0.013	<0.013	
2/7/2012									<0.013
2/8/2012									
2/9/2012				<0.013					
7/11/2012	<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			
7/23/2012									
7/24/2012									
1/7/2013									
1/8/2013	<0.005	<0.005		<0.005					
1/9/2013									
1/22/2013					<0.005		<0.005		
1/23/2013								<0.005	<0.005
1/24/2013			<0.005			<0.005			
7/2/2013				<0.005			<0.005		
7/9/2013									
7/10/2013	<0.005	<0.005							
7/16/2013									
7/17/2013						<0.005		<0.005	
7/23/2013			<0.005		<0.005				
7/24/2013									
1/14/2014									
1/15/2014									
1/21/2014	<0.005	<0.005		<0.005		<0.005	0.0017 (J)		
1/22/2014			0.0012 (J)		<0.005				
1/23/2014								<0.005	0.0018 (J)
6/24/2014				<0.005					
6/25/2014						<0.005	0.00087 (J)		

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWA-28 (bg)	GWC-15	GWC-23	GWA-1 (bg)	GWC-35	GWC-33	GWC-31
7/1/2014	<0.005	0.0014 (J)	<0.005		0.0015 (J)				0.0048 (J)
7/8/2014									
1/13/2015									
1/14/2015		<0.005		<0.005		<0.005	<0.005		
1/20/2015								<0.005	
1/21/2015	<0.005		<0.005						<0.005
1/22/2015					<0.005				
7/21/2015			<0.005			<0.005			
7/22/2015		<0.005		<0.005					
7/23/2015									
7/24/2015									
7/27/2015									
7/28/2015	<0.005						0.0008 (J)		
7/29/2015					0.0012 (J)			0.0012 (J)	
7/30/2015									
7/31/2015									
1/19/2016									
1/20/2016									
1/21/2016					<0.005	<0.005	0.00095 (J)		
1/22/2016			<0.005						
1/25/2016								<0.005	<0.005
1/26/2016									
1/27/2016	0.0021 (J)	0.0068		<0.005					
1/17/2017			<0.0025						
1/19/2017						<0.0025			
1/20/2017									
1/24/2017									
1/25/2017								<0.0025	<0.0025
1/26/2017							<0.0025		
1/31/2017	<0.0025								
2/1/2017		<0.0025		<0.0025					
2/2/2017									
2/3/2017					<0.0025				
8/1/2017			<0.0025						
8/2/2017									
8/3/2017						<0.0025	<0.0025		
8/4/2017	<0.0025			<0.0025				<0.0025	0.003
8/7/2017		<0.0025							
8/8/2017					<0.0025				
1/19/2018			<0.0025			<0.0025			
1/22/2018									
1/23/2018							<0.0025	<0.0025	0.0022 (J)
1/24/2018									
1/25/2018	<0.0025	<0.0025		<0.0025	<0.0025				
1/26/2018									
6/19/2018			<0.0025			<0.0025	<0.0025		
6/20/2018	<0.0025	<0.0025		<0.0025	<0.0025				
6/21/2018									
6/25/2018									
6/26/2018								<0.0025	
6/27/2018									0.0036
1/17/2019						<0.002			



# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-26	GWA-29 (bg)	GWA-2 (bg)	GWC-25	GWC-24
8/30/2011						
8/31/2011						
9/7/2011						
9/13/2011						
9/16/2011						
9/17/2011	<0.013	<0.013	<0.013	<0.013	<0.013	
10/26/2011						
10/27/2011				<0.013		
10/28/2011			<0.013			
10/29/2011	<0.013	<0.013				
10/30/2011						
10/31/2011					<0.013	
12/3/2011						
12/4/2011						
12/5/2011						
12/12/2011			<0.013			
12/13/2011						
12/14/2011	<0.013	<0.013		<0.013	<0.013	
1/19/2012						
1/24/2012						
1/25/2012	<0.013					
1/31/2012			0.018			
2/1/2012						
2/7/2012		<0.013		<0.013	<0.013	
2/8/2012						
2/9/2012						
7/11/2012						
7/16/2012						
7/17/2012	<0.005	<0.005	0.0066		<0.005	
7/18/2012						
7/23/2012				<0.005		
7/24/2012						
1/7/2013						
1/8/2013						
1/9/2013						
1/22/2013						
1/23/2013				<0.005		
1/24/2013	<0.005	<0.005	0.015			
7/2/2013						
7/9/2013						
7/10/2013						
7/16/2013						
7/17/2013						
7/23/2013						
7/24/2013	<0.005	<0.005	0.015	<0.005	<0.005	
1/14/2014						
1/15/2014						
1/21/2014						
1/22/2014			0.015	<0.005		
1/23/2014	<0.005	0.0027 (J)			0.0034 (J)	
6/24/2014						
6/25/2014						

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-26	GWA-29 (bg)	GWA-2 (bg)	GWC-25	GWC-24
7/1/2014				0.0011 (J)		
7/8/2014	<0.005	<0.005	0.0081 (D)		0.0017 (J)	<0.005
1/13/2015						
1/14/2015						
1/20/2015						
1/21/2015	<0.005	<0.005	0.0088		<0.005	
1/22/2015				<0.005		
7/21/2015						
7/22/2015			0.0072	0.0012 (J)		
7/23/2015						
7/24/2015						
7/27/2015						
7/28/2015						
7/29/2015						
7/30/2015	0.002 (J)				0.0028 (J)	
7/31/2015		0.0024 (J)				0.0028 (J)
1/19/2016			0.0083 (D)			
1/20/2016				<0.005		0.0012 (J)
1/21/2016					0.0029 (J)	
1/22/2016	0.0038 (J)					
1/25/2016		<0.005				
1/26/2016						
1/27/2016						
1/17/2017			0.0065			
1/19/2017		<0.0025		<0.0025		
1/20/2017	<0.0025					
1/24/2017					<0.0025	
1/25/2017						
1/26/2017						
1/31/2017						
2/1/2017						
2/2/2017						
2/3/2017						<0.0025
8/1/2017			0.0044			
8/2/2017				<0.0025		
8/3/2017	<0.0025	<0.0025			<0.0025	
8/4/2017						
8/7/2017						
8/8/2017						<0.0025
1/19/2018	<0.0025		0.0046	<0.0025		
1/22/2018		<0.0025				
1/23/2018						
1/24/2018						
1/25/2018					<0.0025	<0.0025
1/26/2018						
6/19/2018			0.0063	<0.0025		
6/20/2018						
6/21/2018						
6/25/2018						
6/26/2018						
6/27/2018	<0.0025	<0.0025			<0.0025	<0.0025
1/17/2019				<0.002		

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-27	GWC-26	GWA-29 (bg)	GWA-2 (bg)	GWC-25	GWC-24
1/18/2019			0.0059			
1/21/2019						
1/22/2019						
1/24/2019	<0.0025	0.0017 (J)			0.003	
1/25/2019						
1/28/2019						
1/30/2019						
1/31/2019						0.00063 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-27	GWC-32	GWC-33	GWA-4 (bg)	GWA-2 (bg)	GWC-30
3/22/2016	2.2163	1.4375							
3/23/2016			0.019 (J)	0.4759	2.1209	2.8158	0.0713 (J)	0.0276 (J)	0.0999 (J)
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				0.198 (J)	2.71			0.023 (J)	
5/25/2016									
5/26/2016									
7/21/2016	3.2		<0.2				<0.2		0.11 (J)
7/22/2016					3.5				
7/25/2016		1.7							
7/26/2016				1.2				<0.2	
7/27/2016									
9/14/2016							<0.2		
9/15/2016		1.6	<0.2						
9/16/2016					3.5			<0.2	
9/19/2016				0.64					
9/20/2016									0.092 (J)
11/9/2016		1.7							
11/10/2016							<0.2	<0.2	
11/11/2016			<0.2	1.2					
11/14/2016									<0.2
11/15/2016					3.2				
11/16/2016									
11/17/2016						4.1			
11/18/2016									
1/17/2017	2.6	1.6					<0.2		
1/19/2017			<0.2					<0.2	
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	<0.2	0.32			<0.2		
3/17/2017								<0.2	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	2.5	1.4					<0.2		
4/28/2017			<0.2	0.83				<0.2	
5/1/2017						4.2			0.092 (J)
5/2/2017					3.5				





# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-34	GWC-35	GWC-6	GWC-5	GWC-25	GWC-9	GWC-7	GWC-13
3/22/2016									
3/23/2016									
3/24/2016	0.0318 (J)	0.1653 (J)	0.0396 (J)						
3/28/2016				0.0752 (J)	0.1116 (J)	0.0542 (J)			
3/29/2016							0.0671 (J)	0.2179 (J)	0.1084 (J)
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016		0.155 (J)	0.0343 (J)		0.1022 (J)				
5/24/2016				0.081 (J)			0.06 (J)	0.216 (J)	
5/25/2016	0.0282 (J)								0.1002 (J)
5/26/2016						0.034 (J)			
7/21/2016		0.19 (J)	<0.2	0.088 (J)	0.11 (J)				
7/22/2016								0.23	
7/25/2016							0.096 (J)		
7/26/2016	<0.2								0.12 (J)
7/27/2016						<0.2			
9/14/2016									
9/15/2016		0.16 (J)	<0.2	0.084 (J)	0.084 (J)			0.22	0.1 (J)
9/16/2016									
9/19/2016	<0.2					<0.2	<0.2		
9/20/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016	<0.2								
11/15/2016		0.14 (J)	<0.2		<0.2	<0.2			
11/16/2016				<0.2			<0.2	0.22	
11/17/2016									0.092 (J)
11/18/2016									
1/17/2017									
1/19/2017	<0.2								
1/20/2017									
1/24/2017						<0.2			
1/25/2017		0.16 (J)							
1/26/2017			<0.2	<0.2	<0.2			0.23	
1/31/2017							<0.2		0.11 (J)
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017	<0.2								
3/17/2017									
3/22/2017		0.14 (J)	<0.2	<0.2	<0.2			0.2	
3/23/2017						<0.2	0.12 (J)		0.088 (J)
3/24/2017									
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	<0.2	0.16 (J)							
5/2/2017			<0.2	<0.2	0.1 (J)	<0.2	<0.2	0.21	





# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-12	GWC-23	GWC-8	GWC-16	GWC-15	GWC-17	GWC-24	GWC-20
5/3/2017		0.19 (J)		<0.2	<0.2	<0.2	<0.2		
5/4/2017			<0.2					<0.2	<0.2
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017									
10/4/2017	0.16 (J)	0.2				<0.2	<0.2		
10/5/2017			<0.2	0.085 (J)	<0.2			<0.2	
10/6/2017									<0.2
1/19/2018									
1/22/2018									
1/23/2018									
1/24/2018	0.11 (J)	0.16 (J)		<0.2					
1/25/2018			<0.2		<0.2	<0.2	<0.2	<0.2	
1/26/2018									<0.2
6/19/2018									
6/20/2018	0.13 (J)		<0.2		<0.2	0.093 (J)			
6/21/2018				<0.2					<0.2
6/25/2018									
6/26/2018		0.18 (J)					<0.2		
6/27/2018								<0.2	
9/25/2018									
9/26/2018				<0.2					
9/27/2018	0.12 (J)								<0.2
9/28/2018		0.2						<0.2	
10/1/2018			<0.2		<0.2	0.1 (J)			
10/2/2018							<0.2		
10/3/2018									
1/17/2019									
1/18/2019									
1/21/2019									
1/22/2019				0.062 (J)		0.071 (J)			
1/24/2019	0.076 (J)						<0.2		
1/25/2019		0.21	<0.2		0.027 (J)				
1/28/2019									<0.2
1/30/2019									
1/31/2019							<0.2		



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Date	GWC-21	GWC-10	GWC-14	GWC-19	GWC-18	GWC-31	GWA-3 (bg)	GWC-22
5/3/2017		1.1	<0.2	<0.2	<0.2			<0.2
5/4/2017	<0.2							
7/18/2017								
7/19/2017						1.6		
8/1/2017								
8/4/2017								
8/24/2017								
10/3/2017							<0.2	
10/4/2017		1.2	<0.2					
10/5/2017				<0.2	<0.2			<0.2
10/6/2017	<0.2					1.6		
1/19/2018								
1/22/2018								
1/23/2018						1.5		
1/24/2018								
1/25/2018		0.75	<0.2	<0.2	<0.2			<0.2
1/26/2018	<0.2							
6/19/2018								
6/20/2018	<0.2		<0.2				<0.2	<0.2
6/21/2018		0.76		<0.2	<0.2			
6/25/2018								
6/26/2018								
6/27/2018						1.6		
9/25/2018								
9/26/2018								
9/27/2018	<0.2	0.59		<0.2				
9/28/2018					<0.2			
10/1/2018			0.083 (J)					<0.2
10/2/2018								
10/3/2018						1.7		
1/17/2019								
1/18/2019							0.028 (J)	
1/21/2019								
1/22/2019			0.057 (J)					
1/24/2019	<0.2							<0.2
1/25/2019								
1/28/2019				<0.2	<0.2			
1/30/2019								
1/31/2019		0.78				1.3		

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-18	GWC-17	GWC-20	GWC-5	GWA-4 (bg)	GWA-3 (bg)	GWC-8	GWA-1 (bg)
8/30/2011	<0.013	<0.013	<0.013						
8/31/2011				<0.013	<0.013	<0.013	<0.013		
9/7/2011								<0.013	
9/16/2011									<0.013
9/17/2011									
10/26/2011	<0.013	<0.013	<0.013						
10/27/2011				<0.013	<0.013	<0.013			<0.013
10/28/2011									
10/29/2011									
10/30/2011								<0.013	
10/31/2011									
12/3/2011	<0.013	<0.013	<0.013						
12/4/2011				<0.013					
12/5/2011					<0.013			<0.013	
12/12/2011									
12/13/2011									<0.013
12/14/2011						<0.013			
1/19/2012								<0.013	
1/25/2012			<0.013		<0.013				
1/31/2012									<0.013
2/1/2012						<0.013			
2/7/2012									
2/8/2012	<0.013			<0.013					
2/9/2012		<0.013							
7/11/2012	<0.0025	<0.0025	<0.0025	<0.0025					
7/16/2012									
7/17/2012									
7/18/2012					<0.0025			<0.0025	<0.0025
7/23/2012						<0.0025			
1/7/2013								<0.013	
1/8/2013	<0.013	<0.013	<0.013	<0.013					
1/9/2013					<0.013				
1/22/2013									
1/23/2013						<0.013			
1/24/2013									<0.013
7/9/2013								<0.013	
7/16/2013	<0.013	<0.013	<0.013	<0.013					
7/17/2013					<0.013	<0.013			<0.013
7/23/2013									
7/24/2013									
1/14/2014		<0.013	<0.013					<0.013	
1/15/2014					<0.013	<0.013			
1/21/2014	<0.013			<0.013					<0.013
1/22/2014									
1/23/2014									
6/24/2014	<0.013	<0.013		<0.013				<0.013	
6/25/2014			<0.013		<0.013	<0.013	<0.013		<0.013
7/1/2014									
7/8/2014									
1/13/2015	<0.013	0.0026 (J)		<0.013	<0.013				
1/14/2015			<0.013			<0.013			<0.013
1/20/2015								<0.013	









# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWA-28 (bg)	GWC-26	GWC-25	GWC-31	GWA-29 (bg)	GWA-2 (bg)	GWC-27	GWC-24
1/21/2015		<0.013	<0.013	<0.013	<0.013	<0.013		<0.013	
1/22/2015							<0.013		
7/21/2015		<0.013							
7/22/2015						<0.013	<0.013		
7/23/2015									
7/24/2015									
7/27/2015									
7/28/2015									
7/29/2015	<0.013								
7/30/2015				<0.013				<0.013	
7/31/2015			<0.013						<0.013
1/19/2016						<0.013 (D)			
1/20/2016							<0.013		<0.013
1/21/2016	<0.013			<0.013					
1/22/2016		<0.013						<0.013	
1/25/2016			<0.013		<0.013				
1/26/2016									
1/27/2016									
3/22/2016		<0.005				<0.005			
3/23/2016							<0.005	<0.005	
3/24/2016	<0.005		<0.005						
3/28/2016				<0.005					
3/29/2016									
3/30/2016					<0.005				<0.005
3/31/2016									
5/19/2016						<0.005			
5/20/2016									
5/23/2016	<0.005	<0.005							
5/24/2016							<0.005	<0.005	
5/25/2016			<0.005	<0.005	<0.005				<0.005
5/26/2016									
7/21/2016	<0.0013					<0.0013			
7/25/2016		<0.0013							
7/26/2016			<0.0013				<0.0013	<0.0013	
7/27/2016				<0.0013	0.00078 (J)				<0.0013
9/14/2016									
9/15/2016	<0.0013	<0.0013							
9/16/2016							<0.0013		<0.0013
9/19/2016			<0.0013	<0.0013				<0.0013	
9/20/2016									
11/9/2016		<0.0013							
11/10/2016							<0.0013		
11/11/2016								<0.0013	
11/14/2016			<0.0013						
11/15/2016	<0.0013			<0.0013					
11/16/2016									
11/17/2016									
11/18/2016									<0.0013
1/17/2017		<0.0013				<0.0013			
1/19/2017			<0.0013				<0.0013		
1/20/2017								<0.0013	
1/24/2017				<0.0013					

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWA-28 (bg)	GWC-26	GWC-25	GWC-31	GWA-29 (bg)	GWA-2 (bg)	GWC-27	GWC-24
1/25/2017	<0.0013				0.00042 (J)				
1/26/2017									
2/1/2017									
2/2/2017									
2/3/2017									<0.0013
3/16/2017		<0.0013	<0.0013					<0.0013	
3/17/2017							<0.0013		
3/22/2017	<0.0013								
3/23/2017				<0.0013	<0.0013				
3/24/2017									
3/28/2017									
3/29/2017									<0.0013
4/27/2017		<0.0013				<0.0013			
4/28/2017							<0.0013	<0.0013	
5/1/2017	<0.0013		<0.0013						
5/2/2017				0.0021	0.00039 (J)				
5/3/2017									
5/4/2017									<0.0013
7/18/2017						<0.0013			
7/19/2017					0.00051 (J)				
8/1/2017		<0.0013				<0.0013			
8/2/2017							<0.0013		
8/3/2017	<0.0013		<0.0013	<0.0013				<0.0013	
8/4/2017					0.00037 (J)				
8/7/2017									
8/8/2017									<0.0013
10/3/2017									
1/19/2018		<0.0013				<0.0013	<0.0013	<0.0013	
1/22/2018			<0.0013						
1/23/2018	<0.0013				<0.0013				
1/24/2018									
1/25/2018				<0.0013					<0.0013
1/26/2018									
6/19/2018		<0.0013				<0.0013	<0.0013		
6/20/2018	<0.0013								
6/21/2018									
6/25/2018									
6/26/2018									
6/27/2018			<0.0013	<0.0013	<0.0013			<0.0013	<0.0013
1/17/2019							<0.001		
1/18/2019						<0.001			
1/21/2019		<0.001							
1/22/2019									
1/24/2019			9.8E-05 (J)	0.00021 (J)				9.8E-05 (J)	
1/28/2019	0.00022 (J)								
1/30/2019									
1/31/2019					0.00015 (J)				0.00013 (J)

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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GWC-10

8/30/2011  
8/31/2011  
9/7/2011  
9/16/2011  
9/17/2011  
10/26/2011  
10/27/2011  
10/28/2011  
10/29/2011  
10/30/2011  
10/31/2011  
12/3/2011  
12/4/2011  
12/5/2011  
12/12/2011  
12/13/2011  
12/14/2011  
1/19/2012  
1/25/2012  
1/31/2012  
2/1/2012  
2/7/2012  
2/8/2012  
2/9/2012  
7/11/2012  
7/16/2012  
7/17/2012  
7/18/2012  
7/23/2012  
1/7/2013  
1/8/2013  
1/9/2013  
1/22/2013  
1/23/2013  
1/24/2013  
7/9/2013  
7/16/2013  
7/17/2013  
7/23/2013  
7/24/2013  
1/14/2014  
1/15/2014  
1/21/2014  
1/22/2014  
1/23/2014  
6/24/2014  
6/25/2014  
7/1/2014  
7/8/2014  
1/13/2015  
1/14/2015  
1/20/2015

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

GWC-10

1/21/2015	
1/22/2015	
7/21/2015	
7/22/2015	
7/23/2015	
7/24/2015	
7/27/2015	
7/28/2015	
7/29/2015	
7/30/2015	
7/31/2015	
1/19/2016	
1/20/2016	
1/21/2016	
1/22/2016	
1/25/2016	<0.013
1/26/2016	
1/27/2016	
3/22/2016	
3/23/2016	
3/24/2016	
3/28/2016	
3/29/2016	
3/30/2016	<0.005
3/31/2016	
5/19/2016	
5/20/2016	
5/23/2016	
5/24/2016	
5/25/2016	<0.005
5/26/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	0.0013
9/14/2016	
9/15/2016	
9/16/2016	<0.0013
9/19/2016	
9/20/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
11/15/2016	
11/16/2016	
11/17/2016	<0.0013
11/18/2016	
1/17/2017	
1/19/2017	
1/20/2017	
1/24/2017	

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-10
1/25/2017	
1/26/2017	
2/1/2017	<0.0013
2/2/2017	
2/3/2017	
3/16/2017	
3/17/2017	
3/22/2017	
3/23/2017	
3/24/2017	<0.0013
3/28/2017	
3/29/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/3/2017	<0.0013
5/4/2017	
7/18/2017	
7/19/2017	
8/1/2017	
8/2/2017	
8/3/2017	
8/4/2017	
8/7/2017	
8/8/2017	<0.0013
10/3/2017	
1/19/2018	
1/22/2018	
1/23/2018	
1/24/2018	
1/25/2018	<0.0013
1/26/2018	
6/19/2018	
6/20/2018	
6/21/2018	<0.0013
6/25/2018	
6/26/2018	
6/27/2018	
1/17/2019	
1/18/2019	
1/21/2019	
1/22/2019	
1/24/2019	
1/28/2019	
1/30/2019	
1/31/2019	0.00013 (J)



# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-16	GWC-18	GWC-19	GWC-6	GWC-5	GWC-21	GWC-20	GWA-4 (bg)
8/30/2011	<0.000168	<0.000168	<0.000168	<0.000168					
8/31/2011					<0.000168	<0.000168	<0.000168	<0.000168	<0.000168
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	<0.000168	<0.000168	<0.000168	<0.000168					
10/27/2011						<0.000168	<0.000168	<0.000168	<0.000168
10/28/2011									
10/29/2011									
10/30/2011					<0.000168				
10/31/2011									
12/3/2011	<0.000123	<0.000123	<0.000123	<0.000123					
12/4/2011							<0.000123	<0.000123	
12/5/2011					<0.000123	<0.000123			
12/12/2011									
12/13/2011									
12/14/2011									<0.000123
1/19/2012									
1/24/2012									
1/25/2012	<0.000123	<0.000123			<0.000123	<0.000123			
1/31/2012									
2/1/2012									<0.000123
2/7/2012									
2/8/2012				<0.000123			<0.000123	<0.000123	
2/9/2012			<0.000123						
7/11/2012	<0.000123	<0.000123	<0.000123	<0.000123				<0.000123	
7/16/2012									
7/17/2012							<0.0002		
7/18/2012						<0.0002			
7/23/2012									<0.0002
7/24/2012					<0.0002				
1/7/2013									
1/8/2013	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	
1/9/2013						<0.0002	<0.0002		
1/22/2013									
1/23/2013									<0.0002
1/24/2013									
7/2/2013		<0.0001							
7/9/2013					<0.0001				
7/10/2013									
7/16/2013	<0.0001		<0.0001	<0.0001			<0.0001	<0.0001	
7/17/2013						<0.0001			<0.0001
7/23/2013									
7/24/2013									
1/14/2014	<0.0002	<0.0002	<0.0002						
1/15/2014					<0.0002	<0.0002			<0.0002
1/21/2014				<0.0002			<0.0002	<0.0002	
1/22/2014									
1/23/2014									
6/24/2014			<0.000175	<0.000175			<0.000175	<0.000175	

# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-16	GWC-18	GWC-19	GWC-6	GWC-5	GWC-21	GWC-20	GWA-4 (bg)
6/25/2014	<0.000175	<0.000175			<0.000175	<0.000175			<0.000175
7/1/2014									
7/8/2014									
1/13/2015		<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	
1/14/2015	<0.0001								<0.0001
1/20/2015					<0.0001				
1/21/2015									
1/22/2015									
7/21/2015									<0.0002
7/22/2015		<0.0002							
7/23/2015			<0.0002	<0.0002			<0.0002	<0.0002	
7/24/2015					<0.0002	<0.0002			
7/27/2015									
7/28/2015	<0.0002								
7/29/2015									
7/30/2015									
7/31/2015									
1/19/2016									
1/20/2016					<0.0002	<0.0002			<0.0002
1/21/2016									
1/22/2016									
1/25/2016									
1/26/2016							<0.0002		
1/27/2016	<0.0002	<0.0002	<0.0002	<0.0002				<0.0002	
3/22/2016									
3/23/2016									<0.0005
3/24/2016									
3/28/2016					<0.0005	<0.0005			
3/29/2016									
3/30/2016	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005	
3/31/2016									
5/19/2016									<0.0005
5/20/2016									
5/23/2016						<0.0005			
5/24/2016					<0.0005				
5/25/2016	<0.0005	<0.0005							
5/26/2016			<0.0005	<0.0005			<0.0005	<0.0005	
7/21/2016					9.1E-05 (J)	7.6E-05 (J)			8.7E-05 (J)
7/22/2016									
7/25/2016			0.00012 (J)	0.00013 (J)				0.00011 (J)	
7/26/2016							0.00013 (J)		
7/27/2016	9.7E-05 (J)	8.9E-05 (J)							
9/14/2016									<0.0002
9/15/2016					<0.0002	<0.0002			
9/16/2016		<0.0002							
9/19/2016	<0.0002		<0.0002	<0.0002					
9/20/2016							7.2E-05 (J)	<0.0002	
11/9/2016									
11/10/2016									<0.0002
11/11/2016									
11/14/2016									
11/15/2016						<0.0002			

# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-16	GWC-18	GWC-19	GWC-6	GWC-5	GWC-21	GWC-20	GWA-4 (bg)
11/16/2016					<0.0002				
11/17/2016	<0.0002	<0.0002	<0.0002	<0.0002			8.4E-05 (J)	<0.0002	
11/18/2016									
1/17/2017									<0.0002
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017					<0.0002	<0.0002			
1/31/2017									
2/1/2017	0.0002	0.00015 (J)	9.8E-05 (J)						
2/2/2017				0.00011 (J)			0.00011 (J)	8.6E-05 (J)	
2/3/2017									
3/16/2017									0.00016 (J)
3/17/2017									
3/22/2017					7.3E-05 (J)	<0.0002			
3/23/2017									
3/24/2017	<0.0002	<0.0002	<0.0002	<0.0002					
3/28/2017							<0.0002	<0.0002	
3/29/2017									
4/27/2017									<0.0002
4/28/2017									
5/1/2017									
5/2/2017					<0.0002	<0.0002			
5/3/2017	<0.0002	<0.0002	<0.0002	<0.0002					
5/4/2017							<0.0002	<0.0002	
7/18/2017									
7/19/2017									
8/1/2017									
8/2/2017									<0.0002
8/3/2017					<0.0002	<0.0002			
8/4/2017									
8/7/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	
8/8/2017									
10/3/2017									
1/19/2018									
1/22/2018									<0.0002
1/23/2018					<0.0002	<0.0002			
1/24/2018									
1/25/2018	<0.0002	<0.0002	<0.0002	<0.0002					
1/26/2018							<0.0002	<0.0002	
6/19/2018									<0.0002
6/20/2018		<0.0002					<0.0002		
6/21/2018			<0.0002	<0.0002				<0.0002	
6/25/2018					<0.0002	<0.0002			
6/26/2018	<0.0002								
6/27/2018									
1/17/2019									<0.0002
1/18/2019									
1/21/2019									
1/22/2019									
1/24/2019	<0.0002						<0.0002		



# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWC-7	GWC-8	GWC-9	GWC-12	GWC-11	GWC-13	GWC-14	GWC-32
8/30/2011									
8/31/2011	<0.000168								
9/7/2011		<0.000168	<0.000168	<0.000168					
9/13/2011					<0.000168	<0.000168	<0.000168	<0.000168	
9/15/2011									<0.000168
9/16/2011									
9/17/2011									
10/26/2011									
10/27/2011								<0.000168	
10/28/2011					<0.000168	<0.000168	<0.000168		
10/29/2011									
10/30/2011		<0.000168	<0.000168	<0.000168					
10/31/2011									<0.000168
12/3/2011								<0.000123	
12/4/2011				<0.000123	<0.000123	<0.000123	<0.000123		
12/5/2011		<0.000123	<0.000123						
12/12/2011									
12/13/2011									<0.000123
12/14/2011									
1/19/2012			<0.000123	<0.000123					
1/24/2012					<0.000123		<0.000123	<0.000123	
1/25/2012		<0.000123							
1/31/2012									
2/1/2012									<0.000123
2/7/2012									
2/8/2012									
2/9/2012						<0.000123			
7/11/2012					<0.000123		<0.000123	<0.000123	
7/16/2012									
7/17/2012									<0.0002
7/18/2012		<0.0002	<0.0002	<0.0002		<0.0002			
7/23/2012									
7/24/2012									
1/7/2013		<0.0002	<0.0002						
1/8/2013				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
1/9/2013									
1/22/2013									
1/23/2013									<0.0002
1/24/2013									
7/2/2013									
7/9/2013		<0.0001	<0.0001	<0.0001		<0.0001		<0.0001	
7/10/2013					<0.0001		<0.0001	<0.0001	
7/16/2013									
7/17/2013									
7/23/2013									
7/24/2013									<0.0001
1/14/2014		<0.0002	0.000153 (J)	<0.0002					
1/15/2014						<0.0002			
1/21/2014					<0.0002		<0.0002	<0.0002	
1/22/2014									
1/23/2014									<4.02E-05
6/24/2014		<0.000175	<0.000175	<0.000175					



# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWC-7	GWC-8	GWC-9	GWC-12	GWC-11	GWC-13	GWC-14	GWC-32
11/16/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
11/17/2016							<0.0002	8.7E-05 (J)	
11/18/2016									
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017		8.8E-05 (J)	<0.0002						7.3E-05 (J)
1/31/2017				8.6E-05 (J)	0.00013 (J)	7.1E-05 (J)	9.6E-05 (J)		
2/1/2017								9.2E-05 (J)	
2/2/2017									
2/3/2017									
3/16/2017									
3/17/2017									
3/22/2017		<0.0002							
3/23/2017			7.2E-05 (J)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/24/2017									<0.0002
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		<0.0002		<0.0002		<0.0002			<0.0002
5/3/2017			<0.0002		<0.0002		<0.0002	<0.0002	
5/4/2017									
7/18/2017									
7/19/2017									
8/1/2017	<0.0002								
8/2/2017									
8/3/2017									<0.0002
8/4/2017		<0.0002					<0.0002		
8/7/2017			<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/8/2017									
10/3/2017	<0.0002								
1/19/2018									
1/22/2018									
1/23/2018		<0.0002							<0.0002
1/24/2018			<0.0002	<0.0002	<0.0002	<0.0002			
1/25/2018							<0.0002	<0.0002	
1/26/2018									
6/19/2018									
6/20/2018	<0.0002					<0.0002	<0.0002	8.5E-05 (J)	
6/21/2018			<0.0002	<0.0002					
6/25/2018		<0.0002							
6/26/2018					<0.0002				<0.0002
6/27/2018									
1/17/2019									
1/18/2019	<0.0002								
1/21/2019		<0.0002							
1/22/2019			<0.0002	<0.0002			<0.0002	<0.0002	
1/24/2019						<0.0002			





# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-30	GWC-35	GWC-23	GWC-34	GWC-33	GWC-15	GWA-28 (bg)	GWA-1 (bg)
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011									
9/15/2011	<0.000168	<0.000168							
9/16/2011			<0.000168	<0.000168	<0.000168	<0.000168	<0.000168	<0.000168	<0.000168
9/17/2011									
10/26/2011									
10/27/2011							<0.000168		<0.000168
10/28/2011		<0.000168						<0.000168	
10/29/2011	<0.000168			<0.000168					
10/30/2011						<0.000168			
10/31/2011			<0.000168		<0.000168				
12/3/2011							<0.000123		
12/4/2011									
12/5/2011									
12/12/2011			<0.000123		<0.000123			<0.000123	
12/13/2011	<0.000123	<0.000123		<0.000123		<0.000123			<0.000123
12/14/2011									
1/19/2012									
1/24/2012									
1/25/2012	<0.000123							<0.000123	
1/31/2012				<0.000123					<0.000123
2/1/2012			<0.000123		<0.000123	<0.000123			
2/7/2012									
2/8/2012		<0.000123							
2/9/2012							<0.000123		
7/11/2012							<0.000123		
7/16/2012			<0.0002		<0.0002			<0.0002	
7/17/2012						<0.0002			
7/18/2012	<0.0002	<0.0002		<0.0002					<0.0002
7/23/2012									
7/24/2012									
1/7/2013									
1/8/2013							<0.0002		
1/9/2013									
1/22/2013	<0.0002		<0.0002	<0.0002	<0.0002				
1/23/2013						<0.0002			
1/24/2013		<0.0002						<0.0002	<0.0002
7/2/2013			<0.0001				<0.0001		
7/9/2013									
7/10/2013									
7/16/2013	<0.0001								
7/17/2013					<0.0001	<0.0001			<0.0001
7/23/2013				<0.0001			<0.0001		
7/24/2013		<0.0001							
1/14/2014									
1/15/2014									
1/21/2014	<0.0002		<0.0002				<0.0002		<0.0002
1/22/2014				<4.02E-05				<4.02E-05	
1/23/2014		<4.02E-05			<4.02E-05	<4.02E-05			
6/24/2014							<0.000175		

# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-30	GWC-35	GWC-23	GWC-34	GWC-33	GWC-15	GWA-28 (bg)	GWA-1 (bg)
6/25/2014	<0.000175		<0.000175		<0.000175				<0.000175
7/1/2014		<0.000175		<0.000175				<0.000175	
7/8/2014									
1/13/2015									
1/14/2015	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001
1/20/2015		<0.0001				<0.0001			
1/21/2015								<0.0001	
1/22/2015				<0.0001					
7/21/2015								<0.0002	<0.0002
7/22/2015							<0.0002		
7/23/2015	<0.0002								
7/24/2015									
7/27/2015									
7/28/2015			<0.0002						
7/29/2015				<0.0002	<0.0002	<0.0002			
7/30/2015		<0.0002							
7/31/2015									
1/19/2016		<0.0002							
1/20/2016									
1/21/2016			<0.0002	<0.0002	<0.0002				<0.0002
1/22/2016								<0.0002	
1/25/2016						<0.0002			
1/26/2016	<0.0002								
1/27/2016							<0.0002		
3/22/2016								<0.0005	
3/23/2016		<0.0005				<0.0005			<0.0005
3/24/2016			<0.0005		<0.0005				
3/28/2016									
3/29/2016				<0.0005					
3/30/2016							<0.0005		
3/31/2016	<0.0005								
5/19/2016									
5/20/2016		<0.0005							<0.0005
5/23/2016			<0.0005		<0.0005			<0.0005	
5/24/2016						<0.0005			
5/25/2016				<0.0005			<0.0005		
5/26/2016	<0.0005								
7/21/2016		8.6E-05 (J)	<0.0002		8.4E-05 (J)				9.7E-05 (J)
7/22/2016						<0.0002			
7/25/2016								8.9E-05 (J)	
7/26/2016	0.00012 (J)						0.00012 (J)		
7/27/2016				8.6E-05 (J)					
9/14/2016									
9/15/2016			<0.0002		<0.0002			<0.0002	<0.0002
9/16/2016						<0.0002			
9/19/2016									
9/20/2016	0.00013 (J)	<0.0002		<0.0002			<0.0002		
11/9/2016								<0.0002	
11/10/2016									
11/11/2016									<0.0002
11/14/2016		<0.0002							
11/15/2016			9.6E-05 (J)		<0.0002				







# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-29 (bg)	GWC-25	GWC-26	GWC-27	GWC-31	GWC-24	GWC-10
6/25/2014								
7/1/2014	<0.000175					<0.000175		
7/8/2014		<0.000175 (D)	<0.000175	<0.000175	<0.000175		<0.000175	
1/13/2015								
1/14/2015								
1/20/2015								
1/21/2015		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
1/22/2015	<0.0001							
7/21/2015								
7/22/2015	<0.0002	<0.0002						
7/23/2015								
7/24/2015								
7/27/2015								
7/28/2015								
7/29/2015								
7/30/2015			<0.0002		<0.0002			
7/31/2015				<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		<0.0002		<0.0002
1/26/2016								
1/27/2016								
3/22/2016		<0.0005						
3/23/2016	<0.0005				<0.0005			
3/24/2016				<0.0005				
3/28/2016			<0.0005					
3/29/2016								
3/30/2016						<0.0005	<0.0005	<0.0005
3/31/2016								
5/19/2016		<0.0005						
5/20/2016								
5/23/2016								
5/24/2016	<0.0005				<0.0005			
5/25/2016			<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
5/26/2016								
7/21/2016		<0.0002						
7/22/2016								
7/25/2016								
7/26/2016	0.00012 (J)			0.00012 (J)	0.00012 (J)			
7/27/2016			9.8E-05 (J)			0.0001 (J)	9E-05 (J)	9.4E-05 (J)
9/14/2016								
9/15/2016								
9/16/2016	<0.0002						<0.0002	<0.0002
9/19/2016			<0.0002	<0.0002	<0.0002			
9/20/2016								
11/9/2016								
11/10/2016	<0.0002							
11/11/2016					<0.0002			
11/14/2016				<0.0002				
11/15/2016			<0.0002					

# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-29 (bg)	GWC-25	GWC-26	GWC-27	GWC-31	GWC-24	GWC-10
11/16/2016								
11/17/2016								<0.0002
11/18/2016							<0.0002	
1/17/2017		<0.0002						
1/19/2017	<0.0002			<0.0002				
1/20/2017					<0.0002			
1/24/2017			<0.0002					
1/25/2017						<0.0002		
1/26/2017								
1/31/2017								
2/1/2017								0.00011 (J)
2/2/2017								
2/3/2017							<0.0002	
3/16/2017				0.00014 (J)	0.00015 (J)			
3/17/2017	0.00015 (J)							
3/22/2017								
3/23/2017			<0.0002			<0.0002		
3/24/2017								<0.0002
3/28/2017								
3/29/2017							<0.0002	
4/27/2017		<0.0002						
4/28/2017	<0.0002				<0.0002			
5/1/2017				<0.0002				
5/2/2017			<0.0002			<0.0002		
5/3/2017								<0.0002
5/4/2017							<0.0002	
7/18/2017		<0.0002						
7/19/2017						<0.0002		
8/1/2017		<0.0002						
8/2/2017	<0.0002							
8/3/2017			<0.0002	<0.0002	<0.0002			
8/4/2017						<0.0002		
8/7/2017								
8/8/2017							<0.0002	<0.0002
10/3/2017								
1/19/2018	<0.0002	<0.0002			<0.0002			
1/22/2018				<0.0002				
1/23/2018						<0.0002		
1/24/2018								
1/25/2018			<0.0002				<0.0002	<0.0002
1/26/2018								
6/19/2018	<0.0002	<0.0002						
6/20/2018								
6/21/2018								<0.0002
6/25/2018								
6/26/2018								
6/27/2018			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
1/17/2019	<0.0002							
1/18/2019		<0.0002						
1/21/2019								
1/22/2019								
1/24/2019			<0.0002	<0.0002	<0.0002			

# Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-2 (bg)	GWA-29 (bg)	GWC-25	GWC-26	GWC-27	GWC-31	GWC-24	GWC-10
1/25/2019								
1/28/2019								
1/30/2019								
1/31/2019						<0.0002	<0.0002	<0.0002



# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-6	GWA-4 (bg)	GWC-21	GWA-3 (bg)	GWC-5	GWC-7	GWC-8	GWC-11
8/30/2011	<0.0025								
8/31/2011		0.0072	<0.0025	<0.0025	<0.0025	<0.0025			
9/7/2011							<0.0025	<0.0025	
9/13/2011									<0.0025
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	<0.0025								
10/27/2011			<0.0025	<0.0025		<0.0025			
10/28/2011									<0.0025
10/29/2011									
10/30/2011		0.0055					<0.0025	<0.0025	
10/31/2011									
12/3/2011	<0.0025								
12/4/2011				<0.0025					<0.0025
12/5/2011		0.0026				<0.0025	<0.0025	<0.0025	
12/12/2011									
12/13/2011									
12/14/2011			<0.0025						
1/19/2012								<0.0025	
1/24/2012									
1/25/2012		<0.0025				<0.0025	<0.0025		
1/31/2012									
2/1/2012			<0.0025						
2/7/2012									
2/8/2012	<0.0025			<0.0025					
2/9/2012									<0.0025
7/11/2012	<0.005								
7/16/2012									
7/17/2012				<0.0025					
7/18/2012						0.0043	0.013	<0.0025	<0.0025
7/23/2012			<0.0025						
7/24/2012		0.003							
1/7/2013							0.019	0.0025	
1/8/2013	<0.0025	0.0036							<0.0025
1/9/2013				<0.0025		0.0082			
1/22/2013									
1/23/2013			<0.0025						
1/24/2013									
7/2/2013									
7/9/2013		0.0038					0.018	0.0027	<0.0025
7/10/2013									
7/16/2013	<0.0025			<0.0025					
7/17/2013			<0.0025			0.0076			
7/23/2013									
7/24/2013									
1/14/2014							0.017	0.0039	
1/15/2014		0.0049	<0.0025			0.0083			<0.0025
1/21/2014	<0.0025			<0.0025					
1/22/2014									
1/23/2014									
6/24/2014	<0.0025			<0.0025			0.016	0.0014 (J)	







# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-13	GWC-32	GWC-33	GWA-28 (bg)	GWC-34	GWC-35	GWC-23	GWA-1 (bg)
6/25/2014						<0.0025	0.0026		<0.0025
7/1/2014	0.0017 (J)	<0.0025	<0.0025		<0.0025			<0.0025	
7/8/2014									
1/13/2015									
1/14/2015	0.0064					<0.0025	0.0021 (J)		<0.0025
1/20/2015			<0.0025	<0.0025					
1/21/2015		<0.0025			<0.0025				
1/22/2015								<0.0025	
7/21/2015					<0.0025				<0.0025
7/22/2015	0.0089								
7/23/2015									
7/24/2015									
7/27/2015									
7/28/2015		<0.0025					0.0016 (J)		
7/29/2015				<0.0025		<0.0025		<0.0025	
7/30/2015			<0.0025						
7/31/2015									
1/19/2016									
1/20/2016									
1/21/2016						<0.0025	0.0017 (J)	<0.0025	<0.0025
1/22/2016					<0.0025				
1/25/2016			<0.0025	<0.0025					
1/26/2016									
1/27/2016	0.014	<0.0025							
4/20/2016	0.013								
1/17/2017					<0.0025				
1/19/2017									<0.0025
1/20/2017									
1/24/2017									
1/25/2017				<0.0025		<0.0025			
1/26/2017			<0.0025				<0.0025		
1/31/2017		<0.0025							
2/1/2017	0.013								
2/2/2017									
2/3/2017								<0.0025	
8/1/2017					<0.0025				
8/2/2017									
8/3/2017			0.0018 (J)			0.012	<0.0025		<0.0025
8/4/2017		<0.0025		<0.0025					
8/7/2017	0.018								
8/8/2017								<0.0025	
1/19/2018					<0.0025				<0.0025
1/22/2018									
1/23/2018			<0.0025	<0.0025		<0.0025	<0.0025		
1/24/2018									
1/25/2018	0.013	<0.0025						<0.0025	
1/26/2018									
6/19/2018					<0.0025		<0.0025		<0.0025
6/20/2018	0.015	<0.0025				<0.0025		<0.0025	
6/21/2018									
6/25/2018									
6/26/2018			<0.0025	<0.0025					



# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWA-29 (bg)	GWA-2 (bg)	GWC-25	GWC-27	GWC-26	GWC-9	GWC-24	GWC-10
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011	0.0041	0.0053	<0.0025	<0.0025	<0.0025	<0.0025			
10/26/2011									
10/27/2011			<0.0025						
10/28/2011		0.0042							
10/29/2011					<0.0025	<0.0025			
10/30/2011							<0.0025		
10/31/2011	0.003			<0.0025					
12/3/2011									
12/4/2011							0.0072		
12/5/2011									
12/12/2011		<0.0025							
12/13/2011									
12/14/2011			<0.0025	<0.0025	<0.0025	<0.0025			
1/19/2012							0.0053		
1/24/2012									
1/25/2012					<0.0025				
1/31/2012		0.0043							
2/1/2012									
2/7/2012	0.0029		0.0028	<0.0025		<0.0025			
2/8/2012									
2/9/2012									
7/11/2012									
7/16/2012									
7/17/2012		<0.0025		0.014	<0.0025	<0.0025			
7/18/2012							0.012		
7/23/2012			<0.0025						
7/24/2012									
1/7/2013									
1/8/2013							0.014		
1/9/2013									
1/22/2013									
1/23/2013	0.0027		<0.0025						
1/24/2013		0.0052			<0.0025	<0.0025			
7/2/2013									
7/9/2013							0.015		
7/10/2013									
7/16/2013									
7/17/2013									
7/23/2013									
7/24/2013		0.0052	<0.0025	0.019	<0.0025	<0.0025			
1/14/2014							0.015		
1/15/2014									
1/21/2014									
1/22/2014		0.0031	0.0013 (J)						
1/23/2014	0.0016 (J)			0.0036	<0.0025	<0.0025			
6/24/2014							0.0091		





# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-31	GWA-29 (bg)	GWA-2 (bg)	GWC-25	GWC-27	GWC-26	GWC-9	GWC-24	GWC-10
6/27/2018	0.0065			0.0072	<0.0025	<0.0025		<0.0025	
1/17/2019			0.0011						
1/18/2019		0.0022							
1/21/2019									
1/22/2019							0.008		
1/24/2019				0.0027	0.00035 (J)	0.00087 (J)			
1/25/2019									
1/28/2019									
1/30/2019									
1/31/2019	0.0011							0.0018	0.0018

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-16	GWA-3 (bg)	GWA-4 (bg)	GWC-21	GWC-6	GWC-5	GWC-8	GWC-14
8/30/2011	<0.013	<0.013							
8/31/2011			<0.013	<0.013	<0.013	<0.013	<0.013		
9/7/2011								<0.013	
9/13/2011									<0.013
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	<0.013	<0.013							
10/27/2011				<0.013	<0.013		<0.013		<0.013
10/28/2011									
10/29/2011									
10/30/2011						<0.013		<0.013	
10/31/2011									
12/3/2011	<0.013	<0.013							<0.013
12/4/2011					<0.013				
12/5/2011						<0.013	<0.013	<0.013	
12/12/2011									
12/13/2011									
12/14/2011				<0.013					
1/19/2012								<0.013	
1/24/2012									<0.013
1/25/2012		<0.013				<0.013	<0.013		
1/31/2012									
2/1/2012				<0.013					
2/7/2012									
2/8/2012					<0.013				
2/9/2012	<0.013								
7/11/2012	<0.005	<0.005							<0.005
7/16/2012									
7/17/2012					<0.005				
7/18/2012							<0.005	<0.005	
7/23/2012				<0.005					
7/24/2012						<0.005			
1/7/2013								<0.005	
1/8/2013	<0.005	<0.005				<0.005			<0.005
1/9/2013					<0.005		<0.005		
1/22/2013									
1/23/2013				<0.005					
1/24/2013									
7/2/2013		<0.005							
7/9/2013						<0.005		<0.005	
7/10/2013									<0.005
7/16/2013	<0.005				<0.005				
7/17/2013				<0.005			<0.005		
7/23/2013									
7/24/2013									
1/14/2014	<0.005	<0.005						<0.005	
1/15/2014				<0.005		<0.005	<0.005		
1/21/2014					<0.005				<0.005
1/22/2014									
1/23/2014									
6/24/2014	<0.005				<0.005			<0.005	



# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-16	GWA-3 (bg)	GWA-4 (bg)	GWC-21	GWC-6	GWC-5	GWC-8	GWC-14
11/15/2016							<0.0013		
11/16/2016						0.00031 (J)		<0.0013	
11/17/2016	<0.0013	<0.0013			<0.0013				0.00047 (J)
1/17/2017				<0.0013					
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017						<0.0013	<0.0013	<0.0013	
1/31/2017									
2/1/2017	<0.0013	<0.0013							<0.0013
2/2/2017					<0.0013				
2/3/2017									
3/16/2017				<0.0013					
3/17/2017									
3/22/2017						<0.0013	<0.0013		
3/23/2017								<0.0013	<0.0013
3/24/2017	<0.0013	<0.0013							
3/28/2017					<0.0013				
4/27/2017				<0.0013					
4/28/2017									
5/1/2017									
5/2/2017						<0.0013	<0.0013		
5/3/2017	<0.0013	<0.0013						0.0018	<0.0013
5/4/2017					<0.0013				
7/18/2017									
7/19/2017									
8/1/2017			<0.0013 (*)						
8/2/2017				<0.0013					
8/3/2017						<0.0013	<0.0013		
8/4/2017									
8/7/2017	<0.0013	<0.0013			<0.0013			0.00068 (J)	0.00088 (J)
8/8/2017									
10/3/2017			<0.0013						
1/19/2018									
1/22/2018				<0.0013					
1/23/2018						<0.0013	<0.0013		
1/24/2018								0.00025 (J)	
1/25/2018	<0.0013	<0.0013							0.00025 (J)
1/26/2018					<0.0013				
6/19/2018					0.00086 (J)				
6/20/2018		<0.0013	<0.0013		0.00046 (J)				0.0017
6/21/2018	<0.0013							0.00029 (J)	
6/25/2018						0.0008 (J)	0.0008 (J)		
6/26/2018									
6/27/2018									
1/17/2019				<0.0013					
1/18/2019			<0.0013						
1/21/2019									
1/22/2019								<0.0013	<0.0013
1/24/2019					<0.0013				
1/25/2019		<0.0013							





# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-12	GWC-13	GWC-30	GWC-22	GWC-32	GWC-35	GWC-33	GWC-15
6/25/2014	<0.005				<0.005		<0.005		
7/1/2014		<0.005	<0.005	<0.005		<0.005			
7/8/2014									
1/13/2015									
1/14/2015					<0.005		<0.005		<0.005
1/20/2015				<0.005		<0.005		<0.005	
1/21/2015	<0.005	<0.005	<0.005						
1/22/2015									
7/21/2015									
7/22/2015									<0.005
7/23/2015					<0.005				
7/24/2015									
7/27/2015									
7/28/2015	<0.005	<0.005	<0.005				<0.005		
7/29/2015								<0.005	
7/30/2015				<0.005		<0.005			
7/31/2015									
1/19/2016				<0.005					
1/20/2016									
1/21/2016							<0.005		
1/22/2016									
1/25/2016						<0.005		<0.005	
1/26/2016	<0.005	<0.005			<0.005				
1/27/2016			<0.005						<0.005
3/22/2016									
3/23/2016				<0.01		<0.01		<0.01	
3/24/2016							<0.01		
3/28/2016									
3/29/2016	<0.01	<0.01	<0.01						
3/30/2016									<0.01
3/31/2016					<0.01				
4/20/2016									
5/19/2016									
5/20/2016				<0.01					
5/23/2016							<0.01		
5/24/2016						<0.01		<0.01	
5/25/2016	<0.01	<0.01	<0.01						<0.01
5/26/2016					<0.01				
7/21/2016				0.0003 (J)			<0.0013		
7/22/2016		<0.0013				0.00025 (J)		0.00074 (J)	
7/25/2016	0.00041 (J)								
7/26/2016			<0.0013		<0.0013				<0.0013
7/27/2016									
9/14/2016									
9/15/2016		<0.0013	<0.0013				<0.0013		
9/16/2016						<0.0013		<0.0013	
9/19/2016	0.00084 (J)								
9/20/2016				<0.0013	<0.0013				<0.0013
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016				<0.0013					

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-12	GWC-13	GWC-30	GWC-22	GWC-32	GWC-35	GWC-33	GWC-15
11/15/2016						<0.0013	<0.0013		
11/16/2016	<0.0013	<0.0013							
11/17/2016			<0.0013		<0.0013			<0.0013	<0.0013
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017				<0.0013					
1/25/2017								<0.0013	
1/26/2017						<0.0013	<0.0013		
1/31/2017	0.00033 (J)	<0.0013	<0.0013						
2/1/2017									<0.0013
2/2/2017									
2/3/2017					<0.0013				
3/16/2017									
3/17/2017				<0.0013					
3/22/2017							<0.0013		
3/23/2017	<0.0013	<0.0013	0.0021					<0.0013	<0.0013
3/24/2017						<0.0013			
3/28/2017					<0.0013				
4/27/2017									
4/28/2017									
5/1/2017				<0.0013				0.00084 (J)	
5/2/2017	<0.0013					<0.0013	<0.0013		
5/3/2017		<0.0013	<0.0013		<0.0013				<0.0013
5/4/2017									
7/18/2017									
7/19/2017									
8/1/2017									
8/2/2017									
8/3/2017						<0.0013	<0.0013		
8/4/2017			<0.0013	<0.0013 (*)				<0.0013 (*)	<0.0013
8/7/2017	<0.0013	0.00032 (J)							
8/8/2017					<0.0013				
10/3/2017									
1/19/2018									
1/22/2018									
1/23/2018						<0.0013	<0.0013	0.001 (J)	
1/24/2018	<0.0013	<0.0013		0.00067 (J)					
1/25/2018			<0.0013		<0.0013				<0.0013
1/26/2018									
6/19/2018							0.00025 (J)		
6/20/2018	0.00026 (J)		<0.0013		0.0003 (J)				0.00027 (J)
6/21/2018				<0.0013					
6/25/2018									
6/26/2018		<0.0013				<0.0013		0.00085 (J)	
6/27/2018									
1/17/2019									
1/18/2019									
1/21/2019							<0.0013		
1/22/2019			<0.0013						<0.0013
1/24/2019	<0.0013				<0.0013				
1/25/2019		<0.0013							







# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-1 (bg)	GWC-26	GWC-31	GWC-25	GWA-2 (bg)	GWA-29 (bg)	GWC-27	GWC-9
6/25/2014		<0.005							
7/1/2014	<0.005			<0.005		<0.005			
7/8/2014			<0.005		<0.005		<0.005 (D)	<0.005	
1/13/2015									
1/14/2015		<0.005							
1/20/2015									<0.005
1/21/2015	<0.005		<0.005	<0.005	<0.005		<0.005	<0.005	
1/22/2015						<0.005			
7/21/2015	<0.005	<0.005							
7/22/2015						<0.005	<0.005		
7/23/2015									
7/24/2015									
7/27/2015									<0.005
7/28/2015									
7/29/2015									
7/30/2015					<0.005			<0.005	
7/31/2015			<0.005						
1/19/2016							<0.005 (D)		
1/20/2016						<0.005			
1/21/2016		<0.005			<0.005				
1/22/2016	<0.005							<0.005	
1/25/2016			<0.005	<0.005					
1/26/2016									<0.005
1/27/2016									
3/22/2016	<0.01						<0.01		
3/23/2016		<0.01				<0.01		<0.01	
3/24/2016			<0.01						
3/28/2016					<0.01				
3/29/2016									<0.01
3/30/2016				<0.01					
3/31/2016									
4/20/2016									
5/19/2016							<0.01		
5/20/2016		<0.01							
5/23/2016	<0.01								
5/24/2016						<0.01		<0.01	<0.01
5/25/2016			<0.01	<0.01	<0.01				
5/26/2016									
7/21/2016		<0.0013					0.00045 (J)		
7/22/2016									
7/25/2016	0.0004 (J)								<0.0013
7/26/2016			<0.0013			<0.0013		<0.0013	
7/27/2016				0.00095 (J)	0.00033 (J)				
9/14/2016									
9/15/2016	<0.0013	<0.0013							
9/16/2016						<0.0013			
9/19/2016			<0.0013		<0.0013			<0.0013	<0.0013
9/20/2016									
11/9/2016	<0.0013								
11/10/2016						<0.0013			
11/11/2016		<0.0013						<0.0013	
11/14/2016			<0.0013						



# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-28 (bg)	GWA-1 (bg)	GWC-26	GWC-31	GWC-25	GWA-2 (bg)	GWA-29 (bg)	GWC-27	GWC-9
1/28/2019									
1/30/2019									
1/31/2019				<0.0013					















# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-25	GWC-31	GWC-27	GWC-24	GWC-10
8/30/2011						
8/31/2011						
9/13/2011						
9/15/2011						
9/16/2011						
9/17/2011	<0.0025	<0.0025	<0.0025			
10/26/2011						
10/27/2011						
10/28/2011						
10/29/2011	<0.005			<0.005		
10/30/2011						
10/31/2011		<0.005	<0.005			
12/3/2011						
12/4/2011						
12/5/2011						
12/12/2011						
12/13/2011						
12/14/2011	<0.005	<0.005		<0.005		
1/24/2012						
1/25/2012				<0.005		
1/31/2012						
2/1/2012						
2/7/2012	<0.005	<0.005	<0.005			
2/8/2012						
2/9/2012						
7/11/2012						
7/16/2012						
7/17/2012	<0.0025	<0.0025		<0.0025		
7/18/2012						
7/23/2012						
7/24/2012						
1/8/2013						
1/9/2013						
1/22/2013						
1/23/2013			<0.0025			
1/24/2013	<0.0025			<0.0025		
7/2/2013						
7/9/2013						
7/10/2013						
7/16/2013						
7/17/2013						
7/23/2013						
7/24/2013	<0.0025	<0.0025		<0.0025		
1/14/2014						
1/15/2014						
1/21/2014						
1/22/2014						
1/23/2014	<0.0025	<0.0025	0.00034 (J)	<0.0025		
6/24/2014						
6/25/2014						
7/1/2014						
7/8/2014	<0.0025	<0.0025		<0.0025	<0.0025	

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-25	GWC-31	GWC-27	GWC-24	GWC-10
1/13/2015						
1/14/2015						
1/20/2015						
1/21/2015	<0.0025	<0.0025	<0.0025	<0.0025		
1/22/2015						
7/21/2015						
7/22/2015						
7/23/2015						
7/24/2015						
7/28/2015						
7/29/2015						
7/30/2015		<0.0025		<0.0025		
7/31/2015	<0.0025				<0.0025	
1/19/2016						
1/20/2016					<0.0025	
1/21/2016		<0.0025				
1/22/2016				<0.0025		
1/25/2016	<0.0025		<0.0025			<0.0025
1/26/2016						
1/27/2016						
1/17/2017						
1/19/2017	<0.00025					
1/20/2017				<0.00025		
1/24/2017		<0.00025				
1/25/2017			0.00087			
1/26/2017						
1/31/2017						
2/1/2017						<0.00025
2/2/2017						
2/3/2017					<0.00025	
8/1/2017						
8/2/2017						
8/3/2017	<0.0013	<0.0013		<0.0013		
8/4/2017			0.0005 (J)			
8/7/2017						
8/8/2017					<0.0013	<0.0013
1/19/2018				<0.0013		
1/22/2018	<0.0013					
1/23/2018			0.00023 (J)			
1/24/2018						
1/25/2018		<0.0013			<0.0013	<0.0013
1/26/2018						
6/19/2018						
6/20/2018						
6/21/2018						<0.0013
6/25/2018						
6/26/2018						
6/27/2018	<0.0013	<0.0013	0.00016 (J)	<0.0013	<0.0013	
1/17/2019						
1/18/2019						
1/21/2019						
1/22/2019						

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-26	GWC-25	GWC-31	GWC-27	GWC-24	GWC-10
1/24/2019	0.00019 (J)	0.00034 (J)		0.00061 (J)		
1/25/2019						
1/30/2019						
1/31/2019			0.00036 (J)		0.00069 (J)	0.0055



# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-6	GWA-4 (bg)	GWA-3 (bg)	GWC-7	GWC-8	GWC-9	GWC-14	GWA-1 (bg)
1/13/2015	<0.001								
1/14/2015			0.0001 (J)					0.0002 (J)	<0.001
7/21/2015			0.0001 (J)	<0.001					<0.001
7/22/2015								0.003 (J)	
7/23/2015	<0.001								
7/24/2015		7E-05 (J)							
1/19/2016									
1/20/2016		6.7E-05 (J)	<0.001						
1/21/2016									<0.001
1/22/2016									
1/25/2016									
1/26/2016					8.5E-05 (J)	<0.001	7.3E-05 (J)		
1/27/2016	<0.001							0.000616 (J)	
3/22/2016									
3/23/2016			<0.001						<0.001
3/24/2016									
3/28/2016		<0.001							
3/29/2016					<0.001	<0.001	<0.001		
3/30/2016	<0.001							0.000411 (J)	
3/31/2016				<0.001					
5/19/2016			<0.001						
5/20/2016									<0.001
5/23/2016									
5/24/2016		<0.001			<0.001	<0.001	<0.001		
5/25/2016				<0.001				0.000445 (J)	
5/26/2016	<0.001								
7/21/2016		<0.0005	<0.0005						<0.0005
7/22/2016					<0.0005				
7/25/2016	<0.0005						<0.0005		
7/26/2016						<0.0005		0.0013	
7/27/2016				<0.0005					
9/14/2016			<0.0005						
9/15/2016		<0.0005			<0.0005			0.00033 (J)	<0.0005
9/16/2016									
9/19/2016	<0.0005					<0.0005	0.00026 (J)		
11/9/2016									
11/10/2016			<0.0005						
11/11/2016									<0.0005
11/15/2016									
11/16/2016		0.00012 (J)			<0.0005	9E-05 (J)	0.00015 (J)		
11/17/2016	<0.0005							0.00041 (J)	
1/17/2017			<0.0005						
1/19/2017									<0.0005
1/20/2017									
1/25/2017									
1/26/2017		<0.0005			<0.0005	0.00012 (J)			
1/31/2017							<0.0005		
2/1/2017								0.00041 (J)	
2/2/2017	<0.0005								
3/16/2017			<0.0005						<0.0005
3/17/2017									
3/22/2017		<0.0005			<0.0005				



# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-6	GWA-4 (bg)	GWA-3 (bg)	GWC-7	GWC-8	GWC-9	GWC-14	GWA-1 (bg)
3/23/2017						<0.0005	<0.0005	0.0004 (J)	
3/24/2017	<0.0005								
4/27/2017			<0.0005						
4/28/2017									<0.0005
5/1/2017									
5/2/2017		<0.0005			<0.0005		<0.0005		
5/3/2017	<0.0005					0.00016 (J)		0.00058	
7/18/2017									
8/1/2017				<0.0005					
8/2/2017			<0.0005						
8/3/2017		<0.0005							<0.0005
8/4/2017					<0.0005				
8/7/2017	<0.0005					0.0001 (J)	<0.0005	0.00046 (J)	
10/3/2017				<0.0005					
1/19/2018									<0.0005
1/22/2018			<0.0005						
1/23/2018		<0.0005			<0.0005				
1/24/2018						<0.0005	<0.0005		
1/25/2018	<0.0005							0.00049 (J)	
6/19/2018			<0.0005						<0.0005
6/20/2018				<0.0005				0.00038 (J)	
6/21/2018	<0.0005					<0.0005	<0.0005		
6/25/2018		0.00011 (J)			<0.0005				
6/26/2018									
6/27/2018									
1/17/2019			<0.0005						6.6E-05 (J)
1/18/2019				<0.0005					
1/21/2019					<0.0005				
1/22/2019						<0.0005	<0.0005	0.00047 (J)	
1/24/2019									
1/28/2019	<0.0005								
1/30/2019		<0.0005							

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWA-28 (bg)	GWC-35	GWC-27	GWA-29 (bg)	GWA-2 (bg)
8/30/2011						
8/31/2011						
9/7/2011						
9/13/2011						
9/16/2011	<0.002	<0.002	<0.002			
9/17/2011				<0.002	<0.002	<0.002
10/26/2011						
10/27/2011						<0.002
10/28/2011		<0.002			<0.002	
10/29/2011				<0.002		
10/30/2011	<0.002					
10/31/2011			<0.002			
12/3/2011						
12/4/2011						
12/5/2011						
12/12/2011	<0.002	<0.002	<0.002		<0.002	
12/13/2011						
12/14/2011				<0.002		<0.002
1/19/2012						
1/24/2012						
1/25/2012		<0.002		<0.002		
1/31/2012					<0.002	
2/1/2012	<0.002		<0.002			
2/7/2012						<0.002
2/8/2012						
7/11/2012						
7/16/2012		<0.002	<0.002			
7/17/2012	<0.002			<0.002	<0.002	
7/18/2012						
7/23/2012						<0.002
7/24/2012						
1/7/2013						
1/8/2013						
1/22/2013			<0.001			
1/23/2013	<0.001					<0.001
1/24/2013		<0.001		<0.001	<0.001	
7/2/2013			<0.001			
7/9/2013						
7/10/2013						
7/16/2013						
7/17/2013	<0.001					
7/23/2013		<0.001				
7/24/2013				<0.001	<0.001	<0.001
1/14/2014						
1/15/2014						
1/21/2014			<0.001			
1/22/2014		<0.002			<0.002	<0.002
1/23/2014	0.0002 (J)			0.0001 (J)		
6/24/2014						
6/25/2014			0.0001			
7/1/2014		<0.001				<0.001
7/8/2014				0.0001	<0.001	

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWA-28 (bg)	GWC-35	GWC-27	GWA-29 (bg)	GWA-2 (bg)
1/13/2015						
1/14/2015			<0.001			
7/21/2015		<0.001				
7/22/2015					<0.001	<0.001
7/23/2015						
7/24/2015						
1/19/2016					<0.001 (D)	
1/20/2016						<0.001
1/21/2016			<0.001			
1/22/2016		<0.001		0.000193 (J)		
1/25/2016	0.000227 (J)					
1/26/2016						
1/27/2016						
3/22/2016		<0.001			<0.001	
3/23/2016	<0.001			<0.001		<0.001
3/24/2016			<0.001			
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
5/19/2016					<0.001	
5/20/2016						
5/23/2016		<0.001	<0.001			
5/24/2016	0.000242 (J)			<0.001		<0.001
5/25/2016						
5/26/2016						
7/21/2016			<0.0005		<0.0005	
7/22/2016	0.00022 (J)					
7/25/2016		<0.0005				
7/26/2016				0.00017 (J)		<0.0005
7/27/2016						
9/14/2016						
9/15/2016		<0.0005	<0.0005			
9/16/2016	0.00021 (J)					<0.0005
9/19/2016				0.00016 (J)		
11/9/2016		<0.0005				
11/10/2016						<0.0005
11/11/2016				<0.0005		
11/15/2016			<0.0005			
11/16/2016						
11/17/2016	0.00017 (J)					
1/17/2017		<0.0005			<0.0005	
1/19/2017						<0.0005
1/20/2017				0.00016 (J)		
1/25/2017	<0.0005					
1/26/2017			<0.0005			
1/31/2017						
2/1/2017						
2/2/2017						
3/16/2017		<0.0005		0.00017 (J)		
3/17/2017						<0.0005
3/22/2017			<0.0005			

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWA-28 (bg)	GWC-35	GWC-27	GWA-29 (bg)	GWA-2 (bg)
3/23/2017	0.00017 (J)					
3/24/2017						
4/27/2017		<0.0005			<0.0005	
4/28/2017				0.00018 (J)		<0.0005
5/1/2017	0.00018 (J)					
5/2/2017			<0.0005			
5/3/2017						
7/18/2017					<0.0005	
8/1/2017		<0.0005			<0.0005	
8/2/2017						<0.0005
8/3/2017			<0.0005	0.00016 (J)		
8/4/2017	0.00016 (J)					
8/7/2017						
10/3/2017						
1/19/2018		<0.0005		0.00016 (J)	<0.0005	<0.0005
1/22/2018						
1/23/2018	0.00012 (J)		<0.0005			
1/24/2018						
1/25/2018						
6/19/2018		<0.0005	<0.0005		<0.0005	<0.0005
6/20/2018						
6/21/2018						
6/25/2018						
6/26/2018	0.00013 (J)					
6/27/2018				0.00015 (J)		
1/17/2019						<0.0005
1/18/2019					<0.0005	
1/21/2019		<0.0005	<0.0005			
1/22/2019						
1/24/2019				0.0002 (J)		
1/28/2019						
1/30/2019	<0.0005					

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-17	GWC-16	GWC-19	GWC-6	GWC-21	GWA-3 (bg)	GWC-5	GWA-4 (bg)
8/30/2011	<0.0025	<0.0025	0.0028	<0.0025					
8/31/2011					<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	<0.01		<0.01	<0.01					
10/27/2011		<0.01				<0.01		<0.01	<0.01
10/28/2011									
10/29/2011									
10/30/2011					<0.01				
10/31/2011									
12/3/2011	<0.01	<0.01	<0.01	<0.01					
12/4/2011						<0.01			
12/5/2011					<0.01			<0.01	
12/12/2011									
12/13/2011									
12/14/2011									<0.01
1/19/2012									
1/24/2012									
1/25/2012		<0.01	<0.01		<0.01			<0.01	
1/31/2012									
2/1/2012									<0.01
2/7/2012									
2/8/2012	<0.01			<0.01		<0.01			
2/9/2012									
7/11/2012	<0.005	<0.005	<0.005	<0.005					
7/16/2012									
7/17/2012						<0.005			
7/18/2012								<0.005	
7/23/2012									<0.005
7/24/2012					<0.005				
1/7/2013									
1/8/2013	<0.005	<0.005	<0.005	<0.005	<0.005				
1/9/2013						<0.005		<0.005	
1/22/2013									
1/23/2013									<0.005
1/24/2013									
7/2/2013			<0.005						
7/9/2013					<0.005				
7/10/2013									
7/16/2013	<0.005	<0.005		<0.005		<0.005			
7/17/2013								<0.005	<0.005
7/23/2013									
7/24/2013									
1/14/2014	0.0022 (J)	0.0019 (J)	0.0036 (J)						
1/15/2014					0.002 (J)			0.0042 (J)	0.0016 (J)
1/21/2014				<0.005		<0.005			
1/22/2014									
1/23/2014									
6/24/2014	<0.005			<0.005		<0.005			





# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-7	GWC-9	GWC-8	GWC-14	GWC-11	GWC-13	GWC-22	GWC-30
8/30/2011									
8/31/2011	0.0035								
9/7/2011		<0.0025	<0.0025	<0.0025					
9/13/2011					<0.0025	0.0064	<0.0025		
9/15/2011								0.005	<0.0025
9/16/2011									
9/17/2011									
10/26/2011									
10/27/2011	<0.01				<0.01				
10/28/2011						<0.01	<0.01		<0.01
10/29/2011								<0.01	
10/30/2011		<0.01	<0.01	<0.01					
10/31/2011									
12/3/2011					<0.01				
12/4/2011	<0.01		<0.01			<0.01	<0.01		
12/5/2011		<0.01		<0.01					
12/12/2011									
12/13/2011								<0.01	<0.01
12/14/2011									
1/19/2012			<0.01	<0.01					
1/24/2012					<0.01		<0.01		
1/25/2012		<0.01						<0.01	
1/31/2012									
2/1/2012									
2/7/2012									
2/8/2012	<0.01								<0.01
2/9/2012						<0.01			
7/11/2012	<0.005				<0.005		<0.005		
7/16/2012									
7/17/2012									
7/18/2012		<0.005	<0.005	<0.005		0.0062		0.0074	<0.005
7/23/2012									
7/24/2012									
1/7/2013		<0.005		<0.005					
1/8/2013	<0.005		<0.005		<0.005	<0.005	<0.005		
1/9/2013									
1/22/2013								0.0071	
1/23/2013									
1/24/2013									<0.005
7/2/2013									
7/9/2013		<0.005	<0.005	<0.005		0.0053			
7/10/2013					<0.005		<0.005		
7/16/2013	<0.005							0.0075	
7/17/2013									
7/23/2013									
7/24/2013									<0.005
1/14/2014		<0.005	0.0022 (J)	<0.005					
1/15/2014						0.0064			
1/21/2014	<0.005				<0.005		<0.005	0.0061	
1/22/2014									
1/23/2014									<0.005
6/24/2014	0.00089 (J)	0.00087 (J)	0.0022 (J)	0.0014 (J)					







# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWA-28 (bg)	GWC-15	GWC-34	GWC-35	GWC-33	GWC-23	GWA-1 (bg)	GWC-25
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011									
9/15/2011	<0.0025								
9/16/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
9/17/2011									0.0074
10/26/2011									
10/27/2011			<0.01					<0.01	
10/28/2011		<0.01							
10/29/2011							<0.01		
10/30/2011						<0.01			
10/31/2011	<0.01			<0.01	<0.01				<0.01
12/3/2011			<0.01						
12/4/2011									
12/5/2011									
12/12/2011		<0.01		<0.01	<0.01	<0.01			
12/13/2011	<0.01						<0.01	<0.01	
12/14/2011									<0.01
1/19/2012									
1/24/2012									
1/25/2012		<0.01							
1/31/2012							<0.01	<0.01	
2/1/2012	<0.01			<0.01	<0.01	<0.01			
2/7/2012									<0.01
2/8/2012			<0.01						
2/9/2012									
7/11/2012			<0.005						
7/16/2012		<0.005		<0.005	<0.005				
7/17/2012	<0.005					<0.005			<0.005
7/18/2012							<0.005	<0.005	
7/23/2012									
7/24/2012									
1/7/2013									
1/8/2013			<0.005						
1/9/2013									
1/22/2013				<0.005	<0.005		<0.005		
1/23/2013	<0.005					<0.005			
1/24/2013		<0.005						<0.005	
7/2/2013			<0.005		<0.005				
7/9/2013									
7/10/2013									
7/16/2013									
7/17/2013				<0.005		<0.005		<0.005	
7/23/2013		<0.005					<0.005		
7/24/2013	<0.005								<0.005
1/14/2014									
1/15/2014									
1/21/2014			<0.005		<0.005			<0.005	
1/22/2014		0.00072 (J)					<0.005		
1/23/2014	<0.005			<0.005		<0.005			0.00082 (J)
6/24/2014			<0.005						

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWA-28 (bg)	GWC-15	GWC-34	GWC-35	GWC-33	GWC-23	GWA-1 (bg)	GWC-25
6/25/2014				<0.005	<0.005			<0.005	
7/1/2014	<0.005	<0.005					<0.005		
7/8/2014									<0.005
1/13/2015									
1/14/2015			<0.005	<0.005	<0.005			<0.005	
1/20/2015	<0.005					<0.005			
1/21/2015		<0.005							0.0013 (J)
1/22/2015							<0.005		
7/21/2015		<0.005						<0.005	
7/22/2015			<0.005						
7/23/2015									
7/24/2015									
7/27/2015									
7/28/2015					<0.005				
7/29/2015				<0.005		<0.005	0.0011 (J)		
7/30/2015	<0.005								0.0018 (J)
7/31/2015									
1/19/2016									
1/20/2016									
1/21/2016				<0.005	<0.005		<0.005	<0.005	0.0017 (J)
1/22/2016		<0.005							
1/25/2016	<0.005					<0.005			
1/26/2016									
1/27/2016			<0.005						
1/17/2017		<0.0025							
1/19/2017								<0.0025	
1/24/2017									0.0077
1/25/2017				0.0055		0.0052			
1/26/2017	0.0016 (J)				0.0026				
1/31/2017									
2/1/2017			0.0016 (J)						
2/2/2017									
2/3/2017							0.0016 (J)		
8/1/2017		<0.0025							
8/2/2017									
8/3/2017	<0.0025			<0.0025	<0.0025			<0.0025	<0.0025
8/4/2017			<0.0025			<0.0025			
8/7/2017									
8/8/2017							<0.0025		
1/19/2018		<0.0025						<0.0025	
1/22/2018									
1/23/2018	0.003			<0.0025	0.0022 (J)	0.003			
1/24/2018									
1/25/2018			0.003				0.0014 (J)		<0.0025
1/26/2018									
6/19/2018		<0.0025			0.0019 (J)			<0.0025	
6/20/2018			<0.0025	<0.0025			<0.0025		
6/21/2018									
6/25/2018									
6/26/2018	<0.0025					<0.0025			
6/27/2018									<0.0025
1/17/2019							0.0012		



# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWC-26	GWA-2 (bg)	GWC-31	GWC-24	GWC-10
8/30/2011						
8/31/2011						
9/7/2011						
9/13/2011						
9/15/2011						
9/16/2011						
9/17/2011	<0.0025	<0.0025	<0.0025	<0.0025		
10/26/2011						
10/27/2011			<0.01			
10/28/2011	<0.01					
10/29/2011		<0.01				
10/30/2011						
10/31/2011				<0.01		
12/3/2011						
12/4/2011						
12/5/2011						
12/12/2011	<0.01					
12/13/2011						
12/14/2011		<0.01	<0.01			
1/19/2012						
1/24/2012						
1/25/2012						
1/31/2012	<0.01					
2/1/2012						
2/7/2012		<0.01	<0.01	<0.01		
2/8/2012						
2/9/2012						
7/11/2012						
7/16/2012						
7/17/2012	<0.005	<0.005				
7/18/2012						
7/23/2012			<0.005			
7/24/2012						
1/7/2013						
1/8/2013						
1/9/2013						
1/22/2013						
1/23/2013			<0.005	<0.005		
1/24/2013	<0.005	<0.005				
7/2/2013						
7/9/2013						
7/10/2013						
7/16/2013						
7/17/2013						
7/23/2013						
7/24/2013	<0.005	<0.005	<0.005			
1/14/2014						
1/15/2014						
1/21/2014						
1/22/2014	<0.005		<0.005			
1/23/2014		<0.005		0.00068 (J)		
6/24/2014						

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWC-26	GWA-2 (bg)	GWC-31	GWC-24	GWC-10
6/25/2014						
7/1/2014			0.0012 (J)	<0.005		
7/8/2014	<0.005 (D)	<0.005			<0.005	
1/13/2015						
1/14/2015						
1/20/2015						
1/21/2015	<0.005	<0.005		<0.005		
1/22/2015			0.0013 (J)			
7/21/2015						
7/22/2015	<0.005		<0.005			
7/23/2015						
7/24/2015						
7/27/2015						
7/28/2015						
7/29/2015						
7/30/2015						
7/31/2015		<0.005			<0.005	
1/19/2016	<0.005 (D)					
1/20/2016			<0.005		<0.005	
1/21/2016						
1/22/2016						
1/25/2016		<0.005		<0.005		<0.005
1/26/2016						
1/27/2016						
1/17/2017	<0.0025					
1/19/2017		<0.0025	<0.0025			
1/24/2017						
1/25/2017				0.0043		
1/26/2017						
1/31/2017						
2/1/2017						0.0032
2/2/2017						
2/3/2017					0.0015 (J)	
8/1/2017	<0.0025 (*)					
8/2/2017			<0.0025			
8/3/2017		<0.0025				
8/4/2017				<0.0025		
8/7/2017						
8/8/2017					<0.0025	<0.0025
1/19/2018	<0.0025		<0.0025			
1/22/2018		<0.0025				
1/23/2018				0.0023 (J)		
1/24/2018						
1/25/2018					<0.0025	0.003
1/26/2018						
6/19/2018	0.0014 (J)		0.0024 (J)			
6/20/2018						
6/21/2018						0.0018 (J)
6/25/2018						
6/26/2018						
6/27/2018		<0.0025		<0.0025	<0.0025	
1/17/2019			0.0016			

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-29 (bg)	GWC-26	GWA-2 (bg)	GWC-31	GWC-24	GWC-10
1/18/2019	0.0015					
1/21/2019						
1/22/2019						
1/24/2019		0.0013				
1/25/2019						
1/28/2019						
1/30/2019						
1/31/2019				0.0014	0.0015	0.0015



# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-18	GWC-19	GWA-3 (bg)	GWC-21	GWA-4 (bg)	GWC-20	GWC-6	GWC-5
8/30/2011	0.0035	<0.0025	0.0035						
8/31/2011				0.0037	0.01	<0.0025	<0.0025	0.0037	<0.0025
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	0.0032	0.0025	0.0054						
10/27/2011					0.0087	<0.0025	0.0038		0.0025
10/28/2011									
10/29/2011									
10/30/2011								0.0043	
10/31/2011									
12/3/2011	0.0027	0.0027	0.0046						
12/4/2011					0.0093		0.0028		
12/5/2011								0.0047	<0.0025
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
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		
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	
1/9/2013					0.006				<0.0025
1/22/2013									
1/23/2013						<0.0025			
1/24/2013									
7/2/2013									
7/9/2013								<0.0025	
7/10/2013									
7/16/2013	<0.0025	<0.0025	<0.0025		0.0052		<0.0025		
7/17/2013						<0.0025			0.0043
7/23/2013									
7/24/2013									
1/14/2014	0.0021 (J)	0.0005 (J)							
1/15/2014						0.00085 (J)		0.0034	0.0023 (J)
1/21/2014			0.0025		0.0066		0.0018 (J)		
1/22/2014									
1/23/2014									
6/24/2014		0.00099 (J)	0.0014 (J)		0.0059		0.0006 (J)		





# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-8	GWC-12	GWC-13	GWC-14	GWC-11	GWC-32	GWC-30	GWC-22
8/30/2011									
8/31/2011									
9/7/2011	<0.0025	0.0029							
9/13/2011			<0.0025	<0.0025	0.0039	<0.0025			
9/15/2011							0.11	<0.0025	0.0058
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							0.099		
12/3/2011					0.0028				
12/4/2011			0.0027	0.0028		0.0025			
12/5/2011	<0.0025	0.004							
12/12/2011									
12/13/2011							0.11	0.003	0.0068
12/14/2011									
1/19/2012		0.0029							
1/24/2012			<0.0025	<0.0025	0.0033				
1/25/2012	<0.0025								<0.0025
1/31/2012									
2/1/2012							0.1		
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							0.084		
7/18/2012	0.0035	0.006						<0.0025	0.0056
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							0.06		
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							0.073	<0.0025	
1/14/2014	0.0022 (J)	0.002 (J)							
1/15/2014						0.00052 (J)			
1/21/2014			0.0019 (J)	0.0026	0.0036				<0.0025
1/22/2014									
1/23/2014							0.038	0.0028	
6/24/2014		0.0011 (J)							





# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-15	GWC-35	GWC-23	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-25	GWC-27
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011	0.0029	<0.0025	0.006	0.0058	0.003	0.0071	0.0033		
9/17/2011								0.0028	0.0044
10/26/2011									
10/27/2011		<0.0025				0.0062			
10/28/2011					0.0073				
10/29/2011				0.0032					0.0049
10/30/2011							0.0071		
10/31/2011	<0.0025		0.0055					0.003	
12/3/2011		<0.0025							
12/4/2011									
12/5/2011									
12/12/2011	0.0027		0.006		0.0053				
12/13/2011				0.0074		0.0065	0.0062		
12/14/2011								0.0029	0.0057
1/19/2012									
1/24/2012									
1/25/2012					0.0046				0.0051
1/31/2012				0.0031		0.0047			
2/1/2012	<0.0025		0.0046				0.0033		
2/7/2012								0.0092	
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							0.0083	0.01	0.015
7/18/2012				0.0054		0.0044			
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							0.0038		
1/24/2013					0.0049	0.0058			0.0041
7/2/2013		<0.0025	0.0025						
7/9/2013									
7/10/2013									
7/16/2013									
7/17/2013	<0.0025					0.0028	0.0059		
7/23/2013				0.0038	0.0026				
7/24/2013								0.033	0.0036
1/14/2014									
1/15/2014									
1/21/2014		0.0017 (J)	0.0036			0.0037			
1/22/2014				0.0035	0.0052				
1/23/2014	0.0034						0.008	0.015	0.02
6/24/2014		<0.005							

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-15	GWC-35	GWC-23	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-25	GWC-27
6/25/2014	0.00083 (J)		0.0021 (J)			0.0026			
7/1/2014				0.0031	0.0042				
7/8/2014							0.011	0.0032	
1/13/2015									
1/14/2015	0.0014 (J)	0.0013 (J)	0.0022 (J)			0.003			
1/20/2015							0.0058		
1/21/2015					0.0038			0.0057	0.0039
1/22/2015				0.0049					
7/21/2015					0.0042	0.0033			
7/22/2015		<0.0025							
7/23/2015									
7/24/2015									
7/27/2015									
7/28/2015			0.0016 (J)						
7/29/2015	<0.0025			0.0024 (J)			0.0049		
7/30/2015								0.0072	0.0033
7/31/2015									
1/19/2016									
1/20/2016									
1/21/2016	<0.0025		0.0016 (J)	<0.0025		0.0043		0.017	
1/22/2016					0.0041				0.012
1/25/2016							0.0046		
1/26/2016									
1/27/2016		<0.0025							
1/17/2017					<0.02				
1/19/2017						0.0077 (J)			
1/20/2017									<0.02
1/24/2017								0.0085 (J)	
1/25/2017	<0.02						<0.02		
1/26/2017			<0.02						
1/31/2017									
2/1/2017		<0.02							
2/2/2017									
2/3/2017				<0.02					
8/1/2017					<0.02				
8/2/2017									
8/3/2017	<0.02		<0.02			<0.02		<0.02	<0.02
8/4/2017		<0.02					<0.02		
8/7/2017									
8/8/2017				<0.02					
1/19/2018					<0.02	<0.02			<0.02
1/22/2018									
1/23/2018	<0.02		<0.02				<0.02		
1/24/2018									
1/25/2018		<0.02		<0.02				0.009 (J)	
1/26/2018									
6/19/2018			<0.02		<0.02	0.0068 (J)			
6/20/2018	<0.02	<0.02		<0.02					
6/21/2018									
6/25/2018									
6/26/2018							<0.02		
6/27/2018								0.0086 (J)	<0.02





# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWC-31	GWA-2 (bg)	GWC-26	GWC-16	GWC-9	GWC-24	GWC-10
8/30/2011								
8/31/2011								
9/7/2011								
9/13/2011								
9/15/2011								
9/16/2011								
9/17/2011	0.026	0.02	0.0061	0.0061				
10/26/2011					0.0035			
10/27/2011			0.0059					
10/28/2011	0.019							
10/29/2011				0.0038				
10/30/2011						0.004		
10/31/2011		0.028						
12/3/2011					0.0033			
12/4/2011						0.0086		
12/5/2011								
12/12/2011	0.02							
12/13/2011								
12/14/2011			0.0077	0.0033				
1/19/2012						0.0081		
1/24/2012								
1/25/2012					<0.0025			
1/31/2012	0.036							
2/1/2012								
2/7/2012		0.0091	0.0053	0.0036				
2/8/2012								
2/9/2012								
7/11/2012					<0.0025			
7/16/2012								
7/17/2012	0.015			0.0028				
7/18/2012						0.0058		
7/23/2012			0.0043					
7/24/2012								
1/7/2013								
1/8/2013					<0.0025	0.0034		
1/9/2013								
1/22/2013								
1/23/2013		0.014	0.0054					
1/24/2013	0.048			<0.0025				
7/2/2013					<0.0025			
7/9/2013						<0.0025		
7/10/2013								
7/16/2013								
7/17/2013								
7/23/2013								
7/24/2013	0.048		0.004	<0.0025				
1/14/2014					0.00074 (J)	0.003		
1/15/2014								
1/21/2014								
1/22/2014	0.044		0.0056					
1/23/2014		0.012		0.019				
6/24/2014						0.0016 (J)		

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWC-31	GWA-2 (bg)	GWC-26	GWC-16	GWC-9	GWC-24	GWC-10
6/25/2014					0.00071 (J)			
7/1/2014		0.015	0.004					
7/8/2014	0.04 (D)			0.0048			0.0043	
1/13/2015					0.0015 (J)			
1/14/2015								
1/20/2015						0.0021 (J)		
1/21/2015	0.037	0.0081		0.0022 (J)				
1/22/2015			0.0051					
7/21/2015								
7/22/2015	0.031		0.0033		<0.0025			
7/23/2015								
7/24/2015								
7/27/2015						<0.0025		
7/28/2015								
7/29/2015								
7/30/2015								
7/31/2015				<0.0025			0.0052	
1/19/2016	0.035 (D)							
1/20/2016			0.0029				0.0086	
1/21/2016								
1/22/2016								
1/25/2016		0.0067		0.0035				0.0027
1/26/2016						<0.0025		
1/27/2016					<0.0025			
1/17/2017	0.024							
1/19/2017			<0.02	0.015 (J)				
1/20/2017								
1/24/2017								
1/25/2017		<0.02						
1/26/2017								
1/31/2017						<0.02		
2/1/2017					<0.02			<0.02
2/2/2017								
2/3/2017							0.0094 (J)	
8/1/2017	0.028							
8/2/2017			<0.02					
8/3/2017				<0.02				
8/4/2017		0.033						
8/7/2017					<0.02	<0.02		
8/8/2017							0.0098 (J)	<0.02
1/19/2018	0.024		<0.02					
1/22/2018				<0.02				
1/23/2018		0.026						
1/24/2018						<0.02		
1/25/2018					<0.02		<0.02	<0.02
1/26/2018								
6/19/2018	0.028		<0.02					
6/20/2018					<0.02			
6/21/2018						<0.02		<0.02
6/25/2018								
6/26/2018								
6/27/2018		0.012 (J)		<0.02			<0.02	

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/15/2019 2:29 PM View: State Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-29 (bg)	GWC-31	GWA-2 (bg)	GWC-26	GWC-16	GWC-9	GWC-24	GWC-10
1/17/2019			0.0024 (J)					
1/18/2019	0.022							
1/21/2019								
1/22/2019						<0.005		
1/24/2019				<0.005				
1/25/2019					<0.005			
1/28/2019								
1/30/2019								
1/31/2019		0.008					0.006	0.0039 (J)

# Intrawell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/14/2019, 5:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (S.U.)	GWC-10	7.213	5.551	1/31/2019	5.75	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-11	6.89	5.451	1/24/2019	6.25	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-12	8.551	5.801	1/25/2019	7.49	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-13	8.274	5.537	1/22/2019	6.61	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-14	6.838	4.327	1/22/2019	5.72	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-15	6.896	6.286	1/22/2019	6.48	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-16	6.531	5.66	1/25/2019	6.05	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-17	6.53	5.912	1/24/2019	6.31	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-18	6.231	5.743	1/28/2019	6.03	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-19	6.524	5.539	1/28/2019	5.96	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-20	7.121	6.08	1/28/2019	6.31	No	8	0	n/a	0.01182	NP Intra (normality) ...
pH (S.U.)	GWC-21	7.018	4.359	1/24/2019	6.01	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-22	7.062	6.182	1/24/2019	6.69	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-23	8.361	3.84	1/25/2019	5.97	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-24	8.457	3.705	1/31/2019	5.28	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-25	7.687	4.387	1/24/2019	6	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-26	6.212	5.253	1/24/2019	5.78	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-27	6.16	4.985	1/24/2019	5.39	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-30	6.78	5.9	1/30/2019	6.08	No	8	0	n/a	0.01182	NP Intra (normality) ...
pH (S.U.)	GWC-31	6.642	5.573	1/31/2019	6.03	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-32	6.519	5.853	1/30/2019	6.12	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-33	7.404	5.34	1/30/2019	6.41	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-34	7.103	4.82	1/28/2019	6.08	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-35	6.728	4.55	1/21/2019	5.53	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-5	7.858	5.316	1/30/2019	6.94	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-6	6.856	5.37	1/30/2019	5.99	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-7	6.612	6.122	1/21/2019	6.33	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-8	6.957	5.418	1/22/2019	5.95	No	8	0	No	0.00003949	Param Intra 1 of 3
pH (S.U.)	GWC-9	6.596	5.274	1/22/2019	5.8	No	8	0	No	0.00003949	Param Intra 1 of 3
Sulfate (mg/L)	GWC-10	56.51	n/a	1/31/2019	20	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-11	3.7	n/a	1/24/2019	0.77	No	8	75	n/a	0.005912	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-12	26.36	n/a	1/25/2019	25	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-13	3.2	n/a	1/22/2019	2.8	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-14	55.6	n/a	1/22/2019	13	No	8	0	sqrt(x)	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-15	2.698	n/a	1/22/2019	2	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-16	1	n/a	1/25/2019	0.66	No	8	75	n/a	0.005912	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-17	1.131	n/a	1/24/2019	0.88	No	8	50	x^2	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-18	1	n/a	1/28/2019	0.69	No	8	75	n/a	0.005912	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-19	15.22	n/a	1/28/2019	1.2	No	8	37.5	x^(1/3)	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-20	1.368	n/a	1/28/2019	0.9	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-21	1	n/a	1/24/2019	1ND	No	8	87.5	n/a	0.005912	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-22	1	n/a	1/24/2019	0.81	No	8	75	n/a	0.005912	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-23	1	n/a	1/25/2019	0.38	No	8	75	n/a	0.005912	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-24	1.019	n/a	1/31/2019	1ND	No	8	75	n/a	0.005912	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-25	46.6	n/a	1/24/2019	1.4	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-26	1	n/a	1/24/2019	0.57	No	8	75	n/a	0.005912	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-27	4.854	n/a	1/24/2019	0.39	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-30	1.558	n/a	1/30/2019	1.2	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-31	23.97	n/a	1/31/2019	10	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-32	17.77	n/a	1/30/2019	11	No	8	0	No	0.00007898	Param Intra 1 of 3

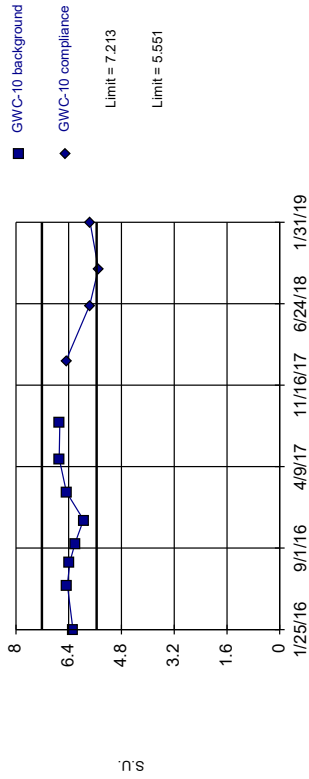
# Intrawell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 3/14/2019, 5:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	GWC-33	65.9	n/a	1/30/2019	14	No	8	0	x^(1/3)	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-34	2.115	n/a	1/28/2019	1.6	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-35	3.245	n/a	1/21/2019	2.7	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-5	31.74	n/a	1/30/2019	31	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-6	21.29	n/a	1/30/2019	9.7	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-7	100.3	n/a	1/21/2019	64	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-8	65.95	n/a	1/22/2019	12	No	8	0	No	0.00007898	Param Intra 1 of 3
Sulfate (mg/L)	GWC-9	55.76	n/a	1/22/2019	12	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-10	299.6	n/a	1/31/2019	150	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-11	325.4	n/a	1/24/2019	10ND	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-12	291.4	n/a	1/25/2019	170	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-13	102.9	n/a	1/22/2019	42	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-14	607.7	n/a	1/22/2019	200	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-15	138.1	n/a	1/22/2019	79	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	171	n/a	1/25/2019	51	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-17	149.5	n/a	1/24/2019	82	No	8	0	x^2	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-18	134	n/a	1/28/2019	77	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-19	138.9	n/a	1/28/2019	69	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-20	117	n/a	1/28/2019	95	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-21	76.32	n/a	1/24/2019	42	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-22	132.2	n/a	1/24/2019	100	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-23	90.88	n/a	1/25/2019	10ND	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-24	45.23	n/a	1/31/2019	30	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-25	132.9	n/a	1/24/2019	54	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-26	90.39	n/a	1/24/2019	34	No	8	12.5	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-27	83.48	n/a	1/24/2019	10ND	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-30	92.3	n/a	1/30/2019	53	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-31	173.5	n/a	1/31/2019	160	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-32	128.3	n/a	1/30/2019	91	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-33	215.9	n/a	1/30/2019	100	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-34	116.6	n/a	1/28/2019	33	No	8	12.5	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-35	86.76	n/a	1/21/2019	17	No	8	12.5	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-5	259.6	n/a	1/30/2019	220	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-6	197.5	n/a	1/30/2019	120	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-7	585.8	n/a	1/21/2019	340	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-8	303.8	n/a	1/22/2019	86	No	8	0	No	0.00007898	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-9	470.2	n/a	1/22/2019	68	No	8	0	No	0.00007898	Param Intra 1 of 3

Within Limits

### pH

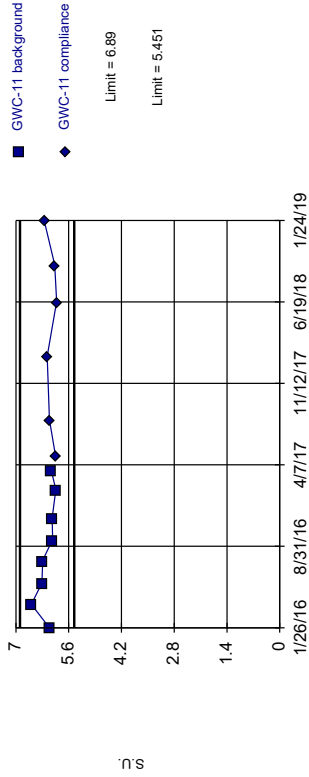


Background Data Summary: Mean=6.382, Std. Dev.=0.2451, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

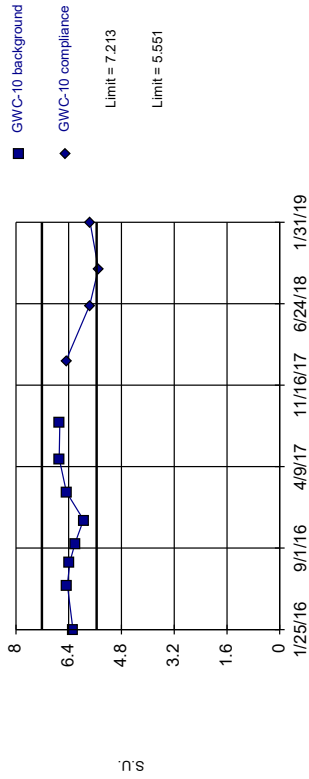


Background Data Summary: Mean=6.171, Std. Dev.=0.2123, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8856, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

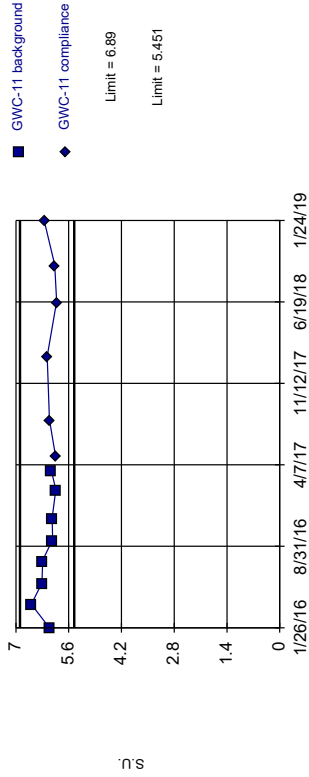


Background Data Summary: Mean=7.176, Std. Dev.=0.4057, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7997, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH



Background Data Summary: Mean=6.906, Std. Dev.=0.4038, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8229, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

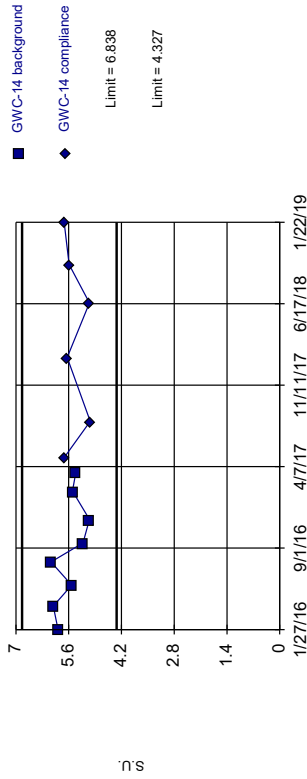
Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



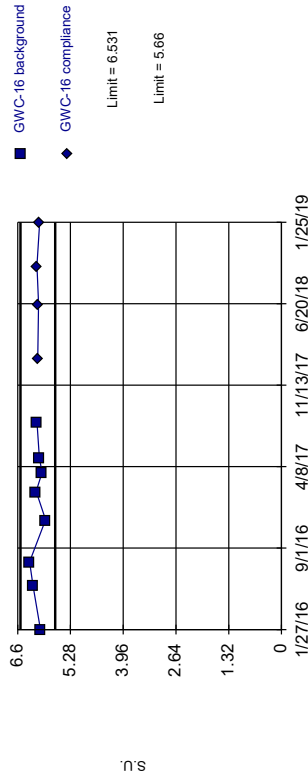
Background Data Summary: Mean=5.582, Std. Dev.=0.3705, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9358, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



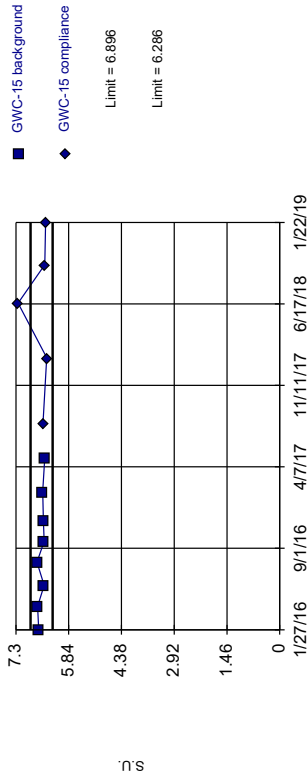
Background Data Summary: Mean=6.095, Std. Dev.=0.1285, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9916, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



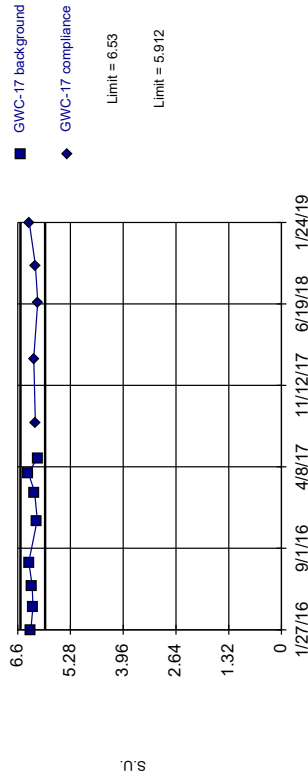
Background Data Summary: Mean=6.591, Std. Dev.=0.09006, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8336, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



Background Data Summary: Mean=6.221, Std. Dev.=0.09115, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

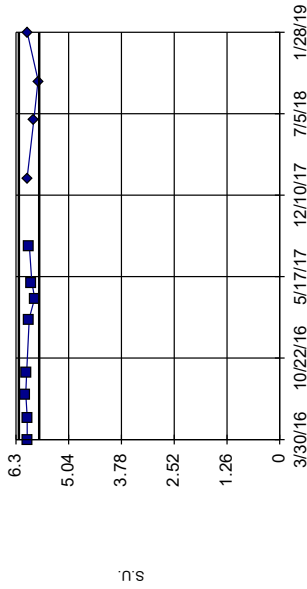
Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limits

pH

Intrawell Parametric



■ GWC-18 background  
 ◆ GWC-18 compliance  
 Limit = 6.231  
 Limit = 5.743

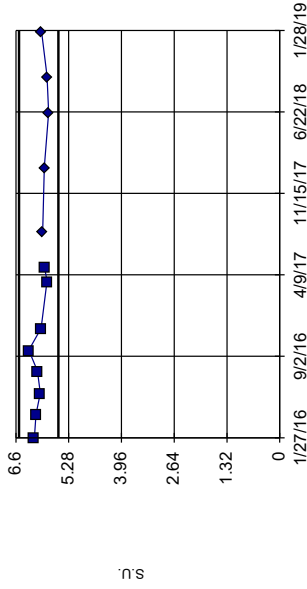
Background Data Summary: Mean=5.987, Std. Dev.=0.07194, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9006, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH

Intrawell Parametric



■ GWC-19 background  
 ◆ GWC-19 compliance  
 Limit = 6.524  
 Limit = 5.539

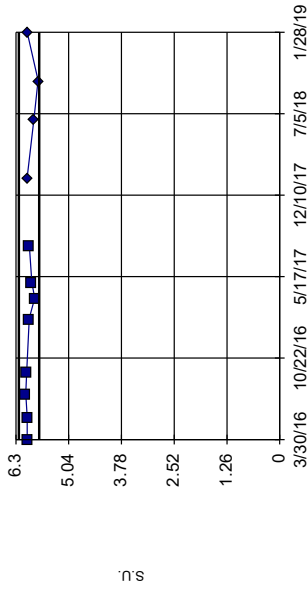
Background Data Summary: Mean=6.031, Std. Dev.=0.1453, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9883, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH

Intrawell Non-parametric



■ GWC-20 background  
 ◆ GWC-20 compliance  
 Limit = 7.121  
 Limit = 6.08

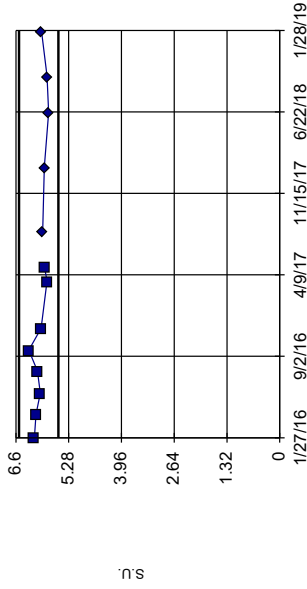
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH

Intrawell Parametric



■ GWC-21 background  
 ◆ GWC-21 compliance  
 Limit = 7.018  
 Limit = 4.359

Background Data Summary: Mean=5.688, Std. Dev.=0.3922, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7633, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

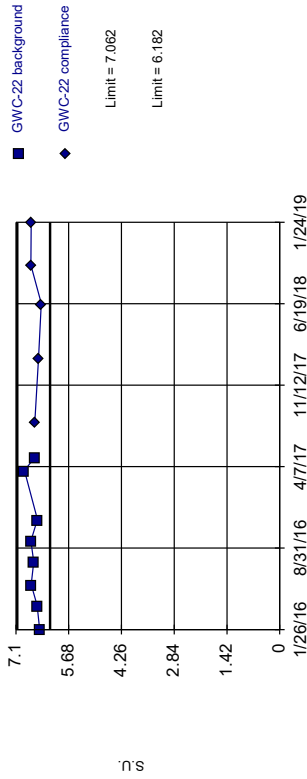
Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



ns

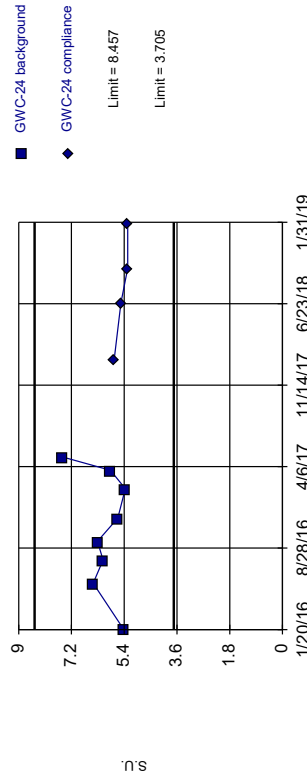
Background Data Summary: Mean=6.622, Std. Dev.=0.1297, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9445, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



ns

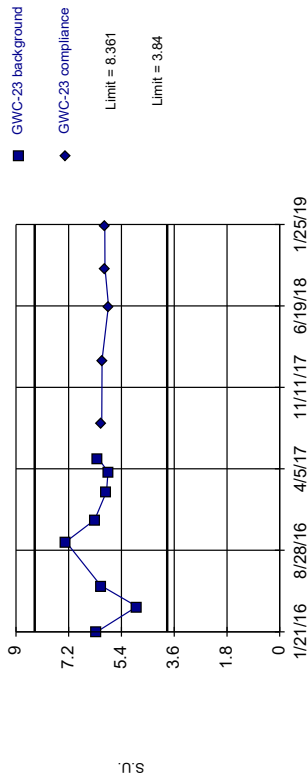
Background Data Summary: Mean=6.081, Std. Dev.=0.7008, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9026, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



ns

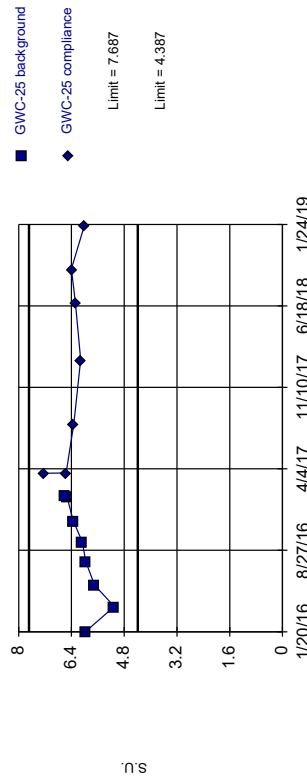
Background Data Summary: Mean=6.101, Std. Dev.=0.6669, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9021, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



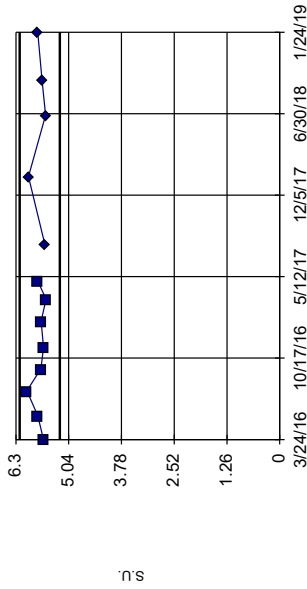
ns

Background Data Summary: Mean=6.037, Std. Dev.=0.4866, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9268, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

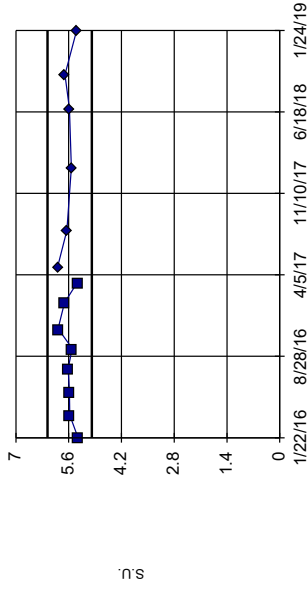


Background Data Summary: Mean=5.732, Std. Dev.=0.1415, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8537, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

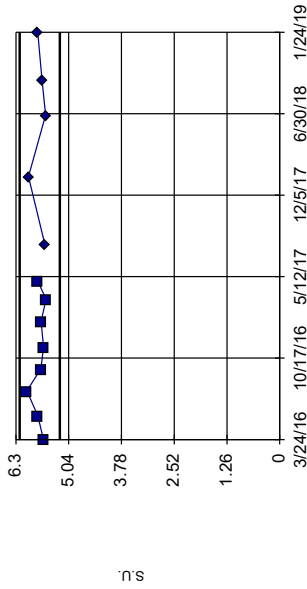


Background Data Summary: Mean=5.573, Std. Dev.=0.1732, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9537, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Non-parametric

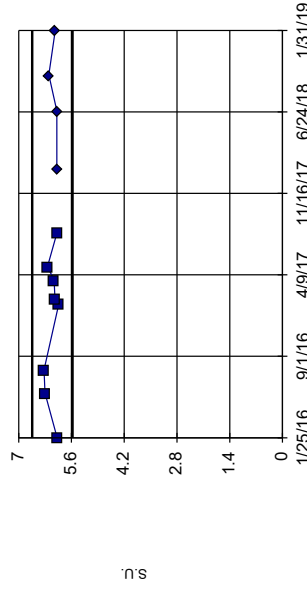


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric



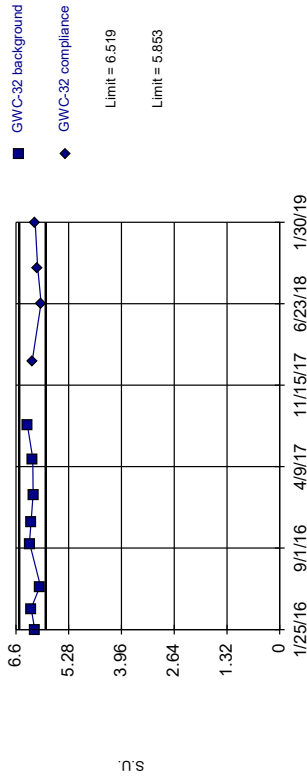
Background Data Summary: Mean=6.107, Std. Dev.=0.1577, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8673, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



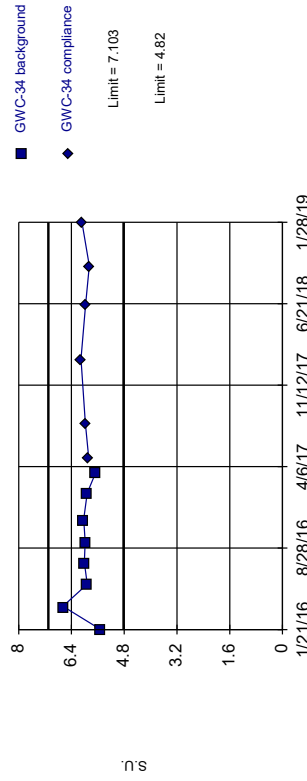
Background Data Summary: Mean=6.186, Std. Dev.=0.0983, n=8, Normality test: Shapiro-Wilk @alpha = 0.01, calculated = 0.9382, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



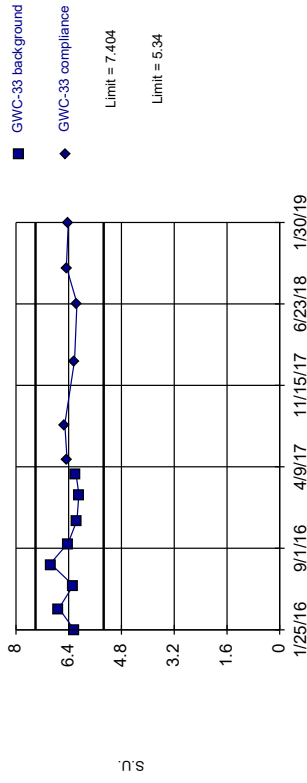
Background Data Summary: Mean=5.961, Std. Dev.=0.3367, n=8, Normality test: Shapiro-Wilk @alpha = 0.01, calculated = 0.8724, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



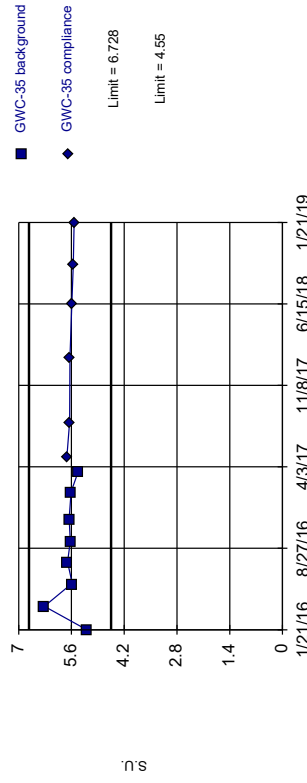
Background Data Summary: Mean=6.372, Std. Dev.=0.3044, n=8, Normality test: Shapiro-Wilk @alpha = 0.01, calculated = 0.8448, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH

Intrawell Parametric



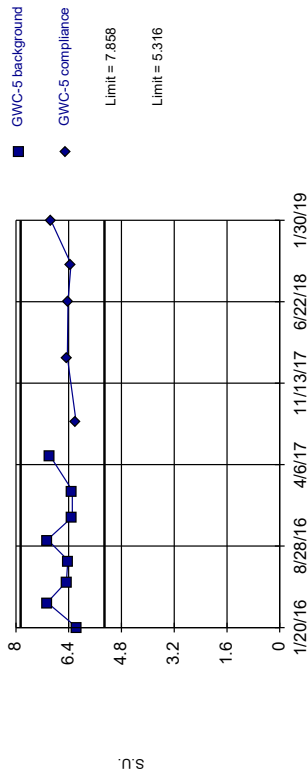
Background Data Summary: Mean=5.639, Std. Dev.=0.3212, n=8, Normality test: Shapiro-Wilk @alpha = 0.01, calculated = 0.8599, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.587, Std. Dev.=0.3749, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8335, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

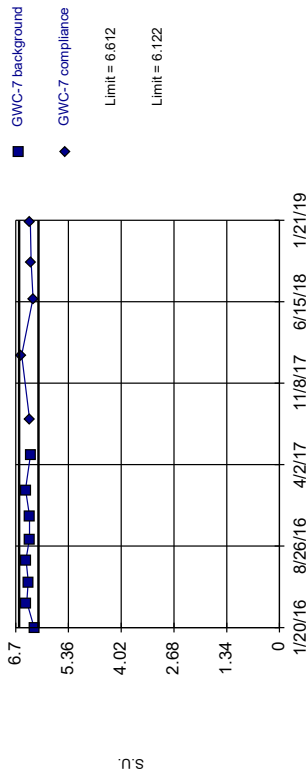
Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.367, Std. Dev.=0.07235, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.934, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

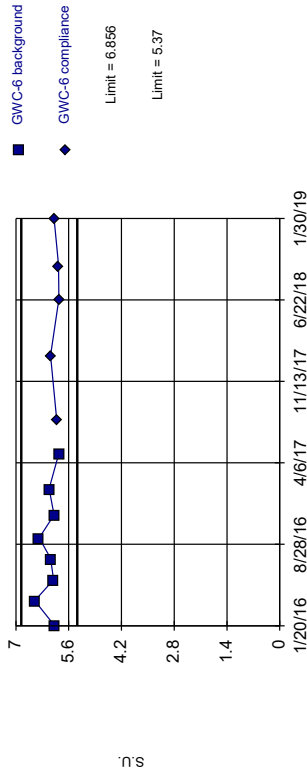
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.113, Std. Dev.=0.2192, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8846, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

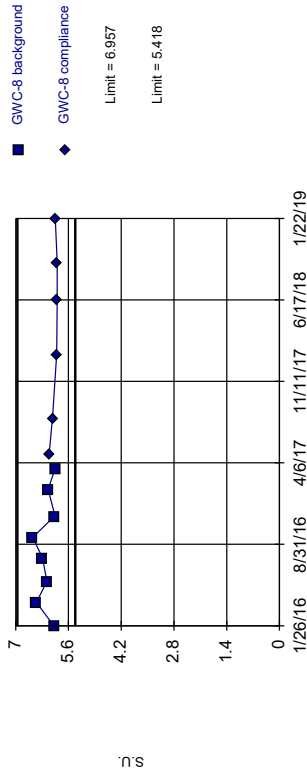
Prediction Limit Analysis Run 3/14/2019 5:38 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.188, Std. Dev.=0.227, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9079, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

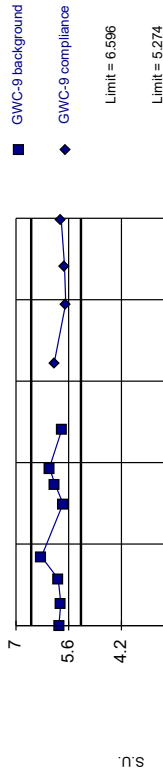
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH

Intrawell Parametric



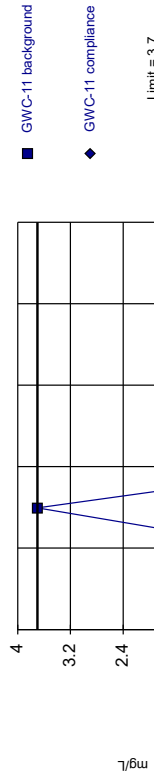
Background Data Summary: Mean=5.935, Std. Dev.=0.1949, n=8, Normality test: Shapiro-Wilk (@alpha = 0.01, calculated = 0.868, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate

Intrawell Non-parametric



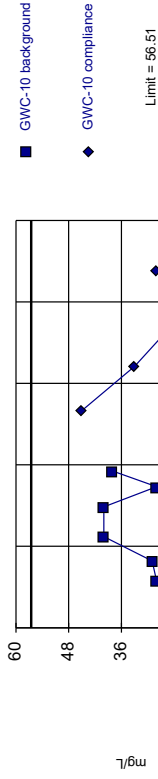
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate

Intrawell Parametric



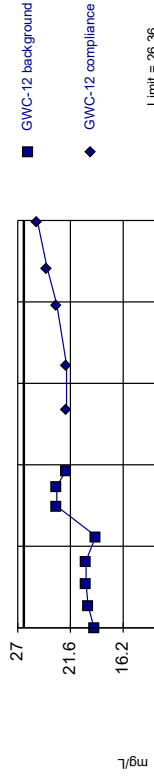
Background Data Summary: Mean=30.9, Std. Dev.=7.557, n=8, Normality test: Shapiro-Wilk (@alpha = 0.01, calculated = 0.892, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate

Intrawell Parametric

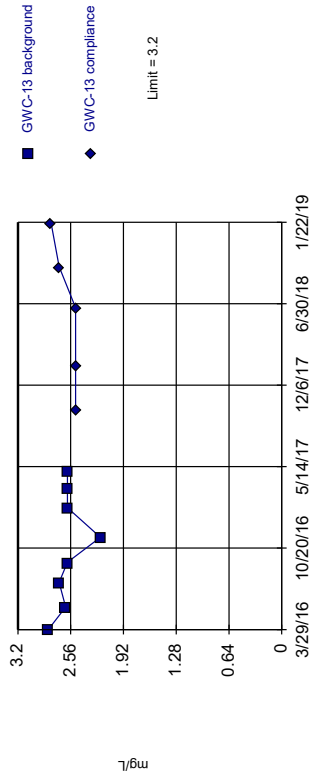


Background Data Summary: Mean=20.75, Std. Dev.=1.657, n=8, Normality test: Shapiro-Wilk (@alpha = 0.01, calculated = 0.8369, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

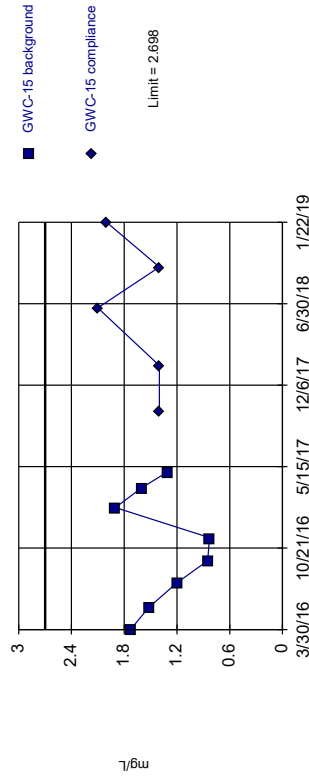


Background Data Summary: Mean=2.594, Std. Dev.=0.1788, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7786, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

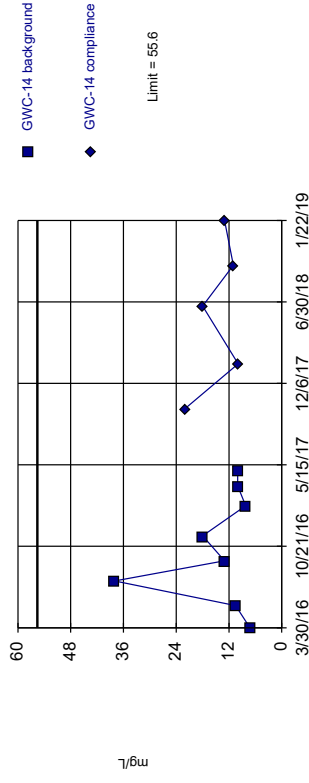


Background Data Summary: Mean=1.366, Std. Dev.=0.393, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9395, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

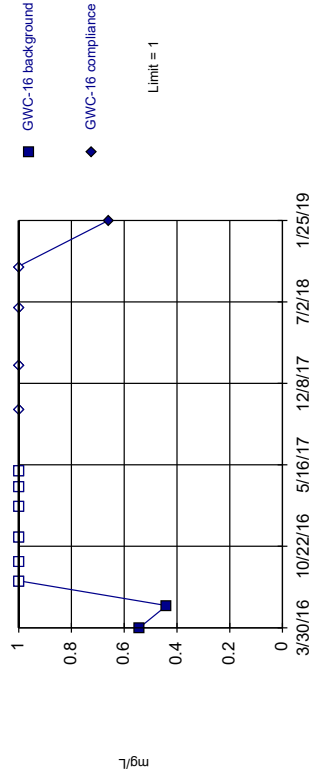


Background Data Summary (based on square root transformation): Mean=3.641, Std. Dev.=1.126, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7765, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

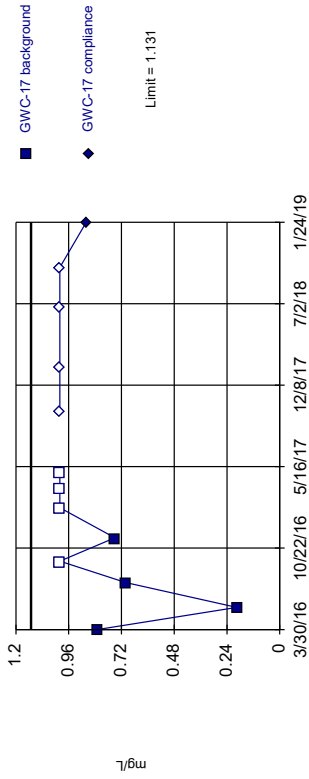
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary (based on square transformation) (after Kaplan-Meier Adjustment): Mean=0.4454, Std. Dev.=0.246, n=8, 50% NDs. Normality test: Shapiro Wilk (@alpha = 0.01, calculated = 0.8176, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

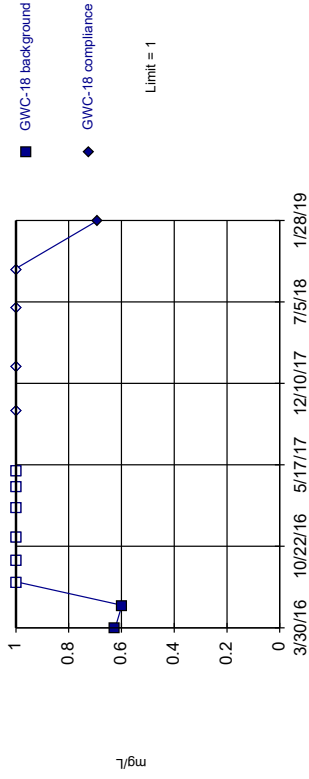
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.008912 (1 of 3).

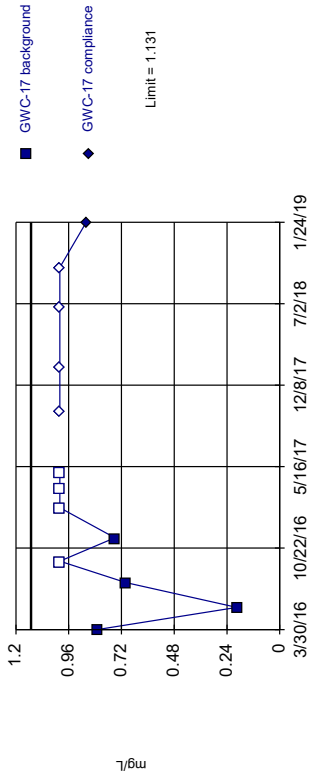
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.15, Std. Dev.=0.3917, n=8, 37.5% NDs. Normality test: Shapiro Wilk (@alpha = 0.01, calculated = 0.7874, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

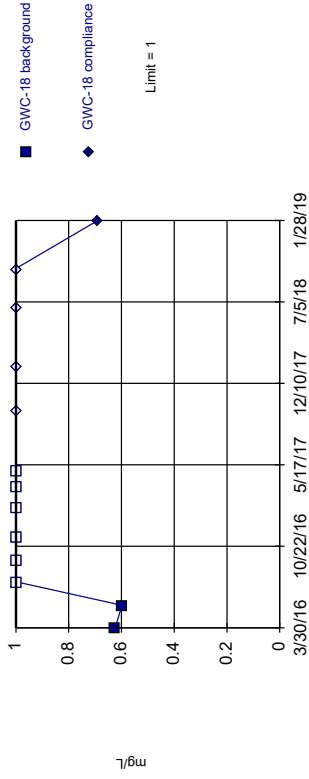
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=0.8956, Std. Dev.=0.1394, n=8. Normality test: Shapiro Wilk (@alpha = 0.01, calculated = 0.9546, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

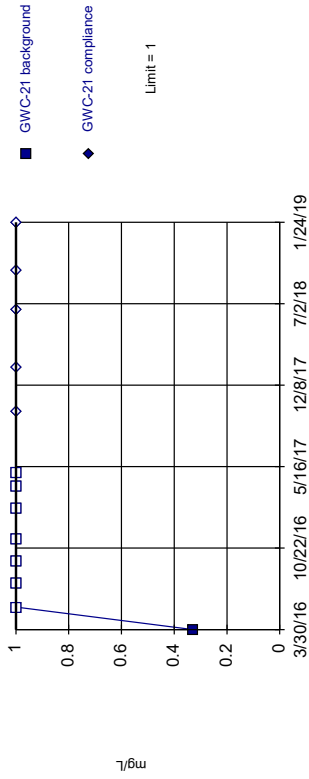


Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.006912 (1 of 3).

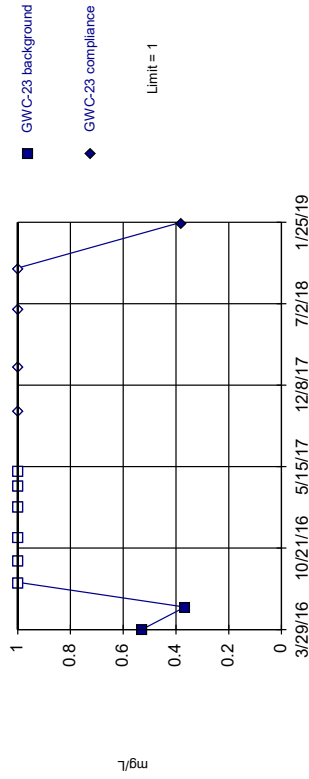
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.006912 (1 of 3).

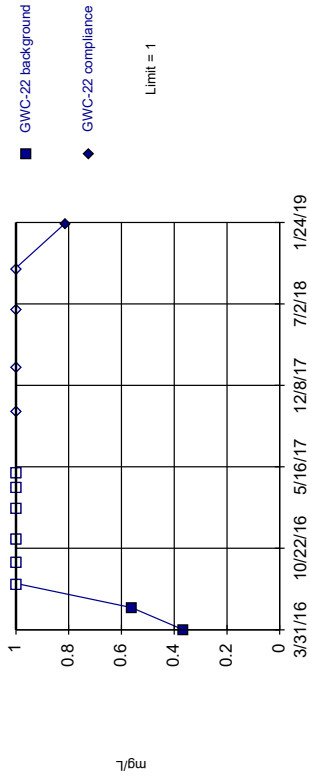
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.006912 (1 of 3).

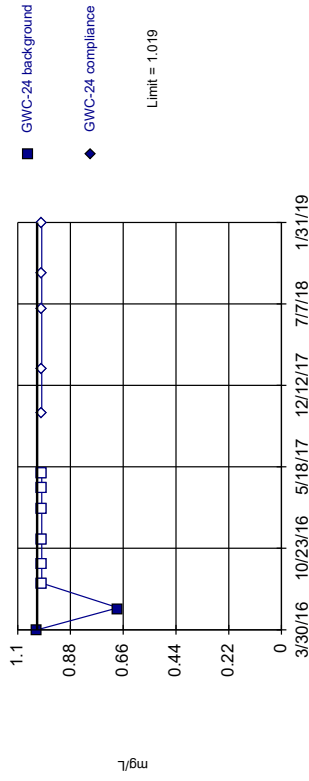
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Non-parametric



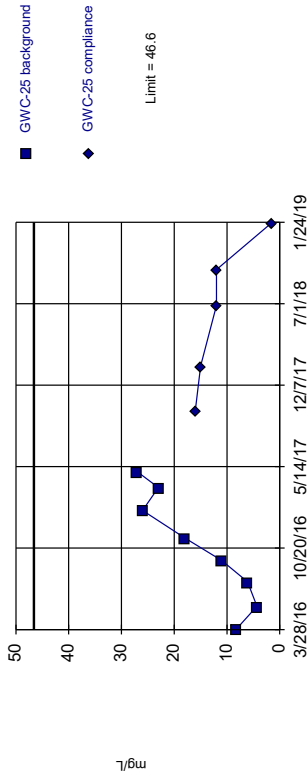
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.006912 (1 of 3).

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate

Intrawell Parametric



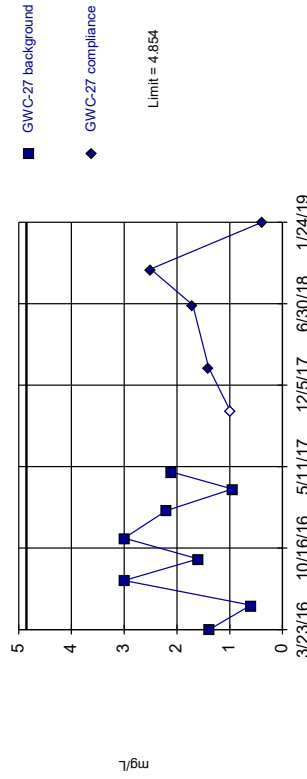
Background Data Summary: Mean=15.47, Std. Dev.=9.184, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8944, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate

Intrawell Parametric



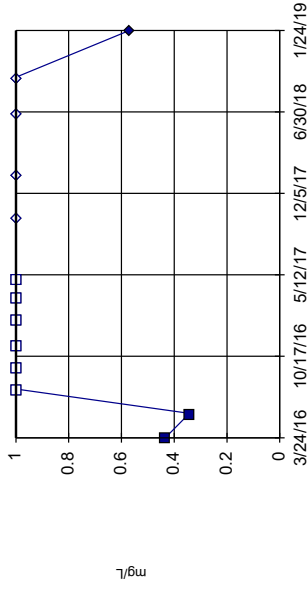
Background Data Summary: Mean=1.855, Std. Dev.=0.8849, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9413, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate

Intrawell Non-parametric



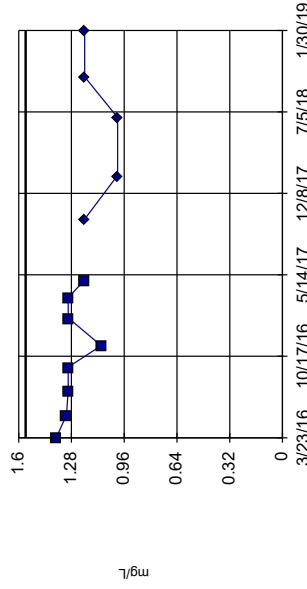
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.008912 (1 of 3).

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate

Intrawell Parametric

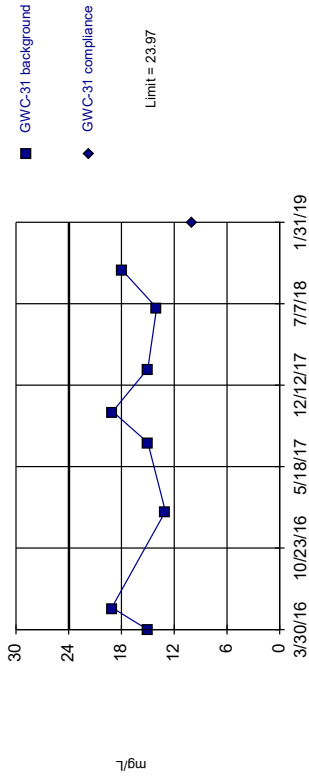


Background Data Summary: Mean=1.273, Std. Dev.=0.08411, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8074, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

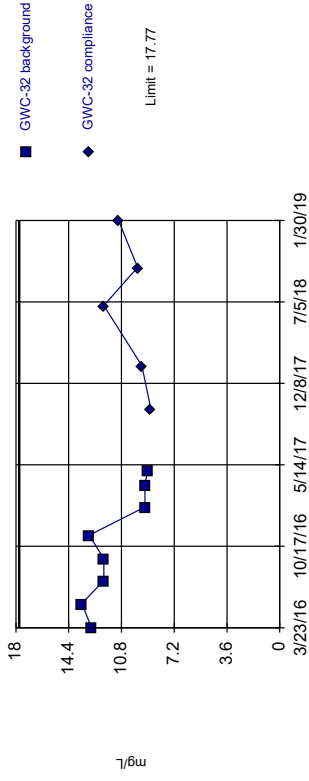


Background Data Summary: Mean=16.01, Std. Dev.=2.348, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.871, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

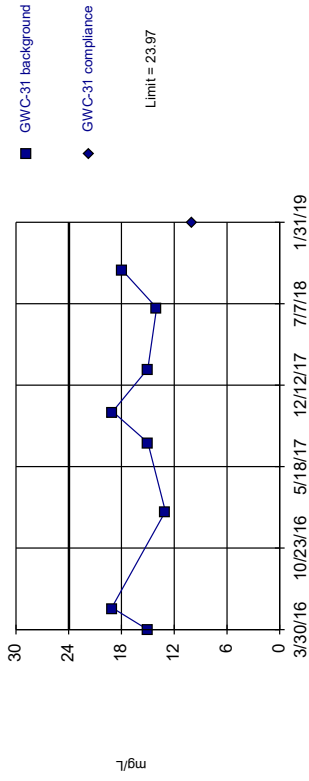


Background Data Summary: Mean=11.34, Std. Dev.=1.897, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8257, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

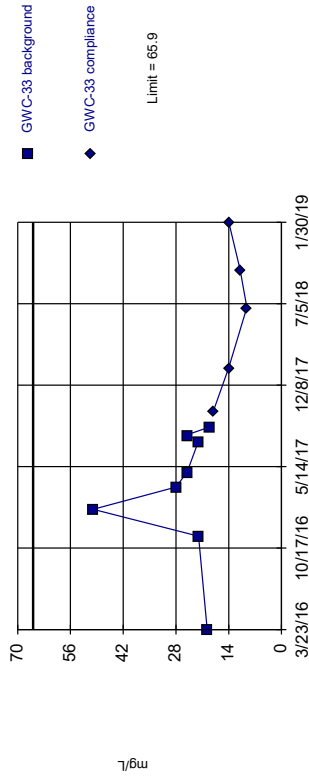


Background Data Summary (based on cube root transformation): Mean=2.943, Std. Dev.=0.3235, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.766, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric



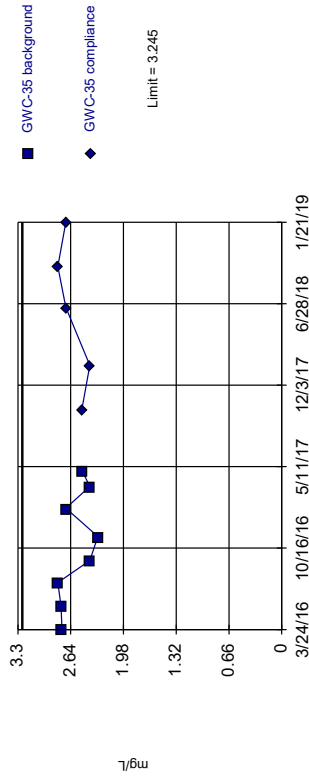
Background Data Summary: Mean=1.527, Std. Dev.=0.1735, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9235, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

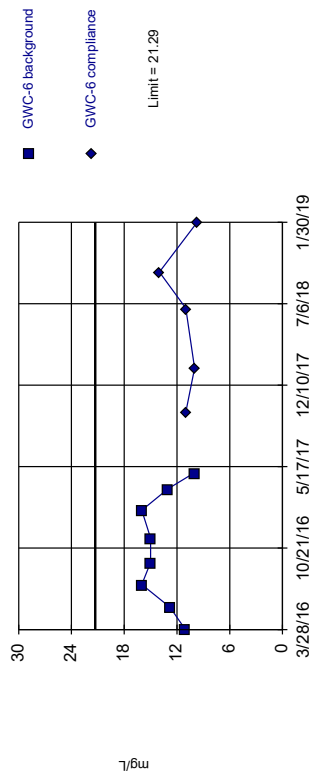


Background Data Summary: Mean=2.576, Std. Dev.=0.1975, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8739, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

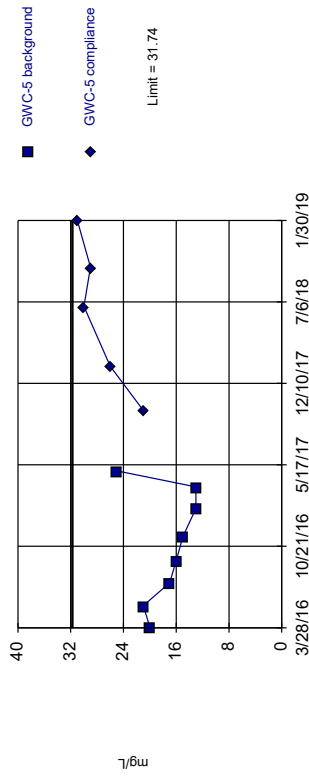


Background Data Summary: Mean=13.6, Std. Dev.=2.267, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9023, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

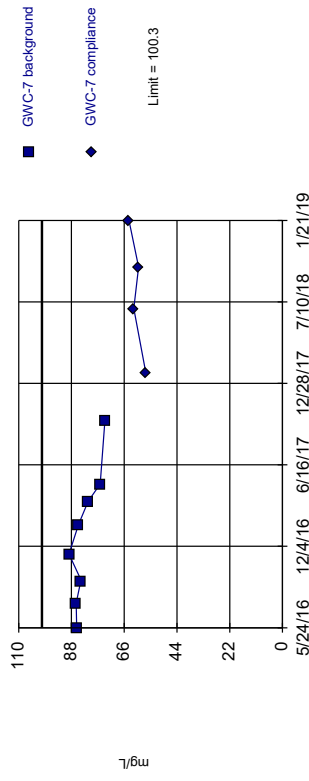


Background Data Summary: Mean=17.49, Std. Dev.=4.204, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9274, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

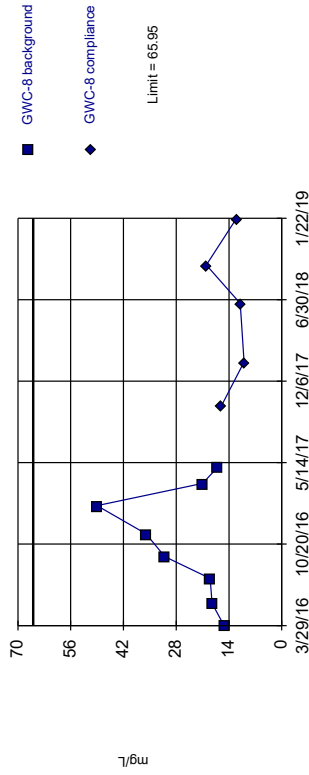


Background Data Summary: Mean=82.6, Std. Dev.=5.218, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9053, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

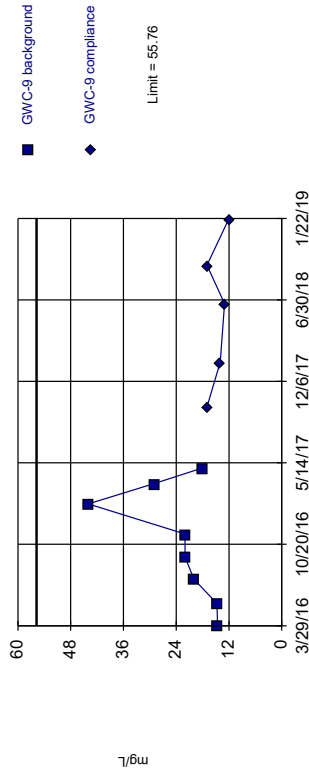


Background Data Summary: Mean=25.85, Std. Dev.=11.83, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8408, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

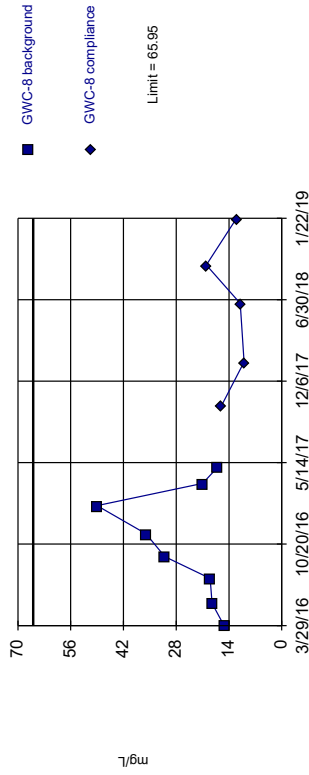


Background Data Summary: Mean=23.04, Std. Dev.=9.652, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8193, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

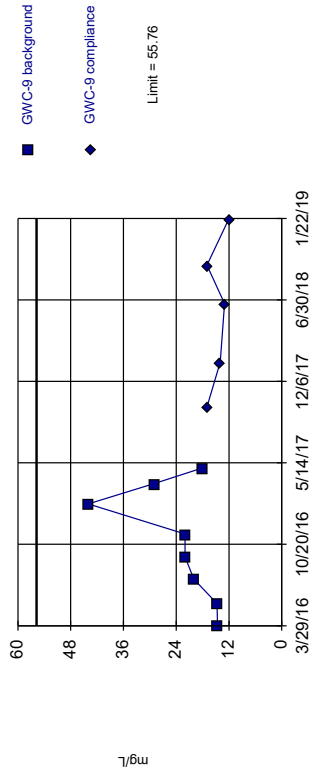


Background Data Summary: Mean=183.5, Std. Dev.=34.25, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9345, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric



Background Data Summary: Mean=181.3, Std. Dev.=42.54, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9797, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

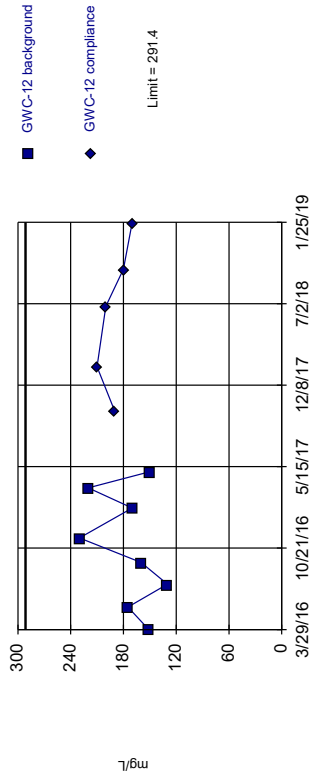
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

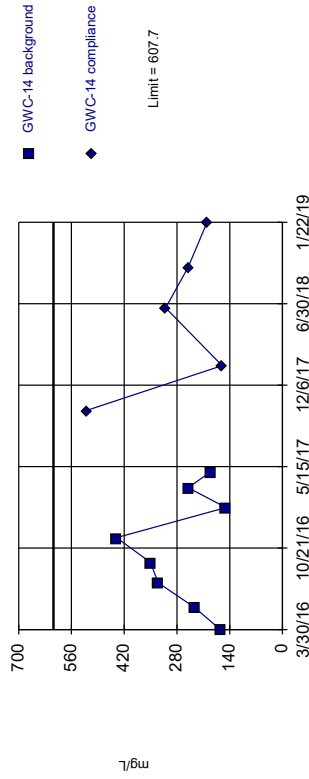


Background Data Summary: Mean=173.3, Std. Dev.=34.85, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8988, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

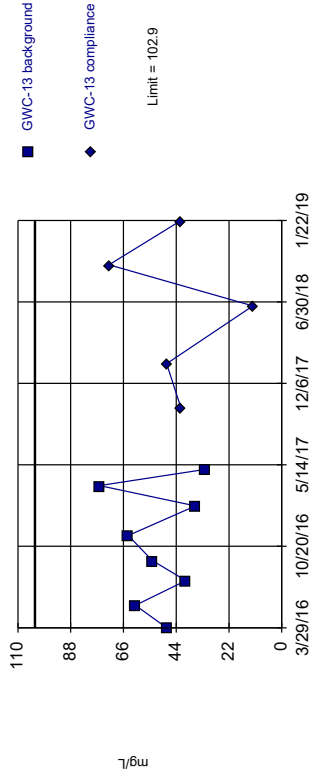


Background Data Summary: Mean=263.5, Std. Dev.=101.5, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9325, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

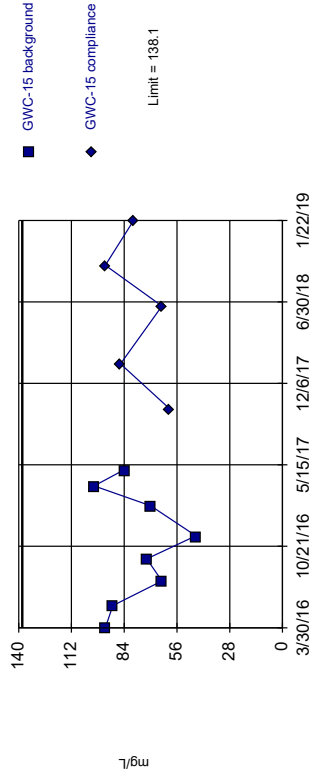


Background Data Summary: Mean=51.38, Std. Dev.=15.2, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9636, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric



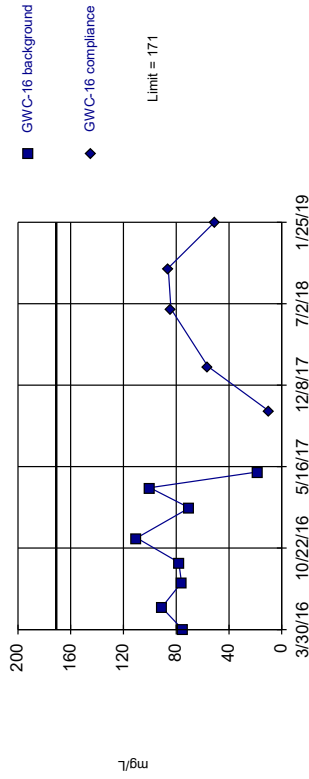
Background Data Summary: Mean=77.5, Std. Dev.=17.88, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9592, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



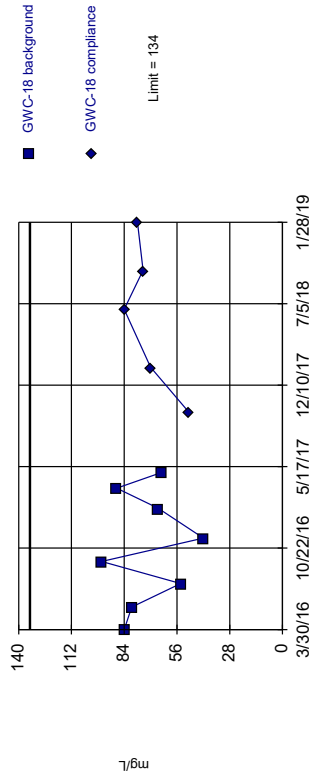
Background Data Summary: Mean=77.25, Std. Dev.=27.64, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8662, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



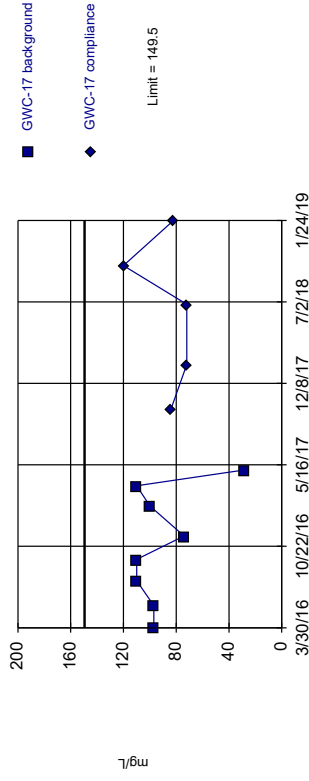
Background Data Summary: Mean=71.75, Std. Dev.=18.38, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9631, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



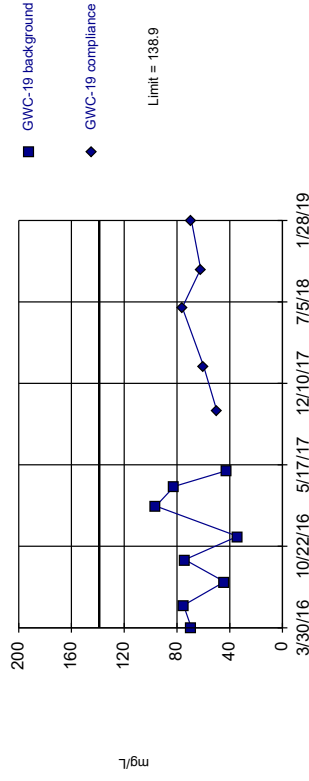
Background Data Summary (based on square transformation): Mean=89.22, Std. Dev.=39.65, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.811, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



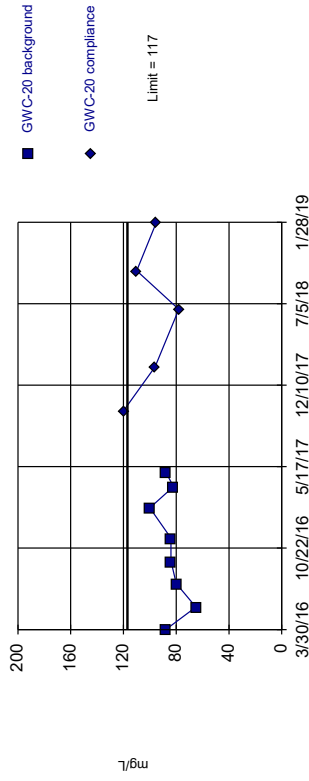
Background Data Summary: Mean=64.5, Std. Dev.=21.96, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9243, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=83.88, Std. Dev.=9.775, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9165, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

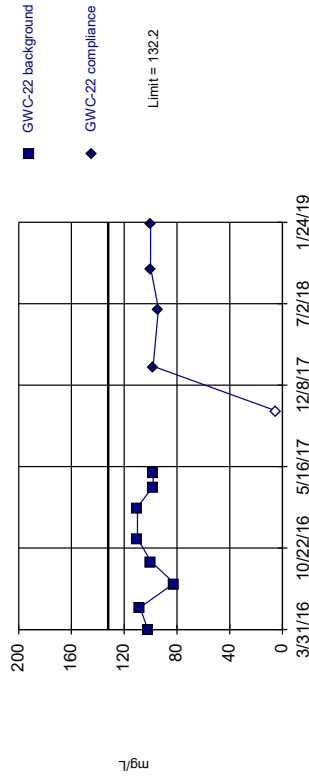
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=101, Std. Dev.=9.196, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8626, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

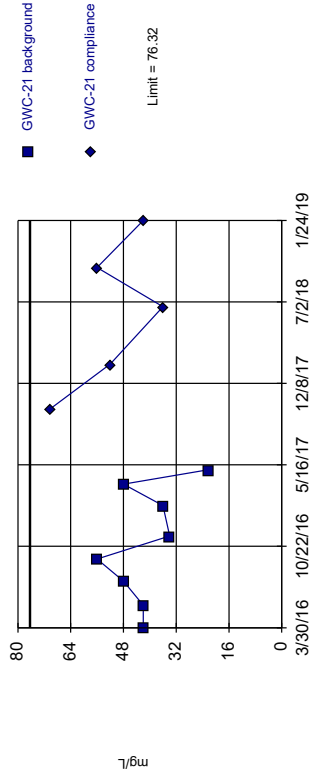
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=41, Std. Dev.=10.42, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

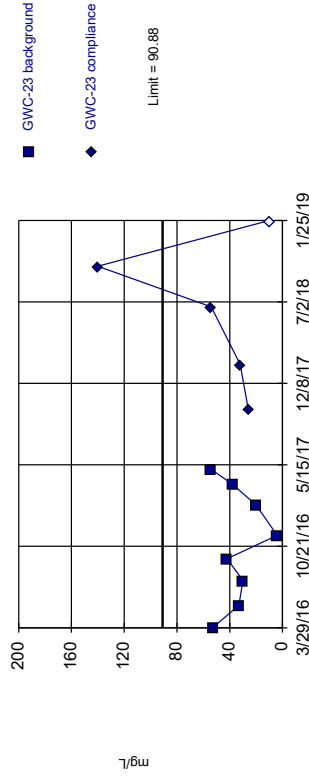
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=34.25, Std. Dev.=16.71, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9497, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL

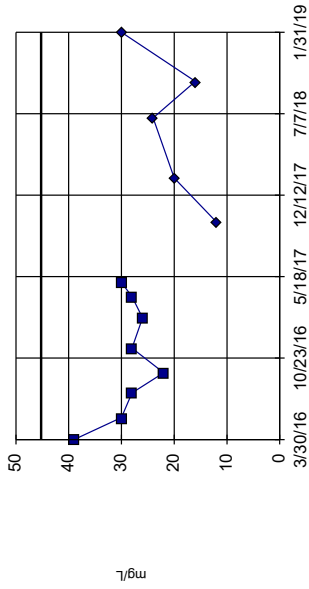
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Total Dissolved Solids

Intrawell Parametric



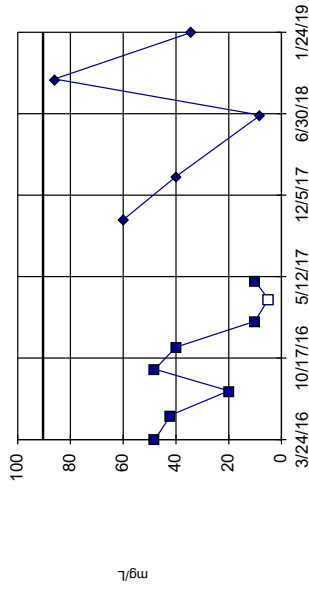
Background Data Summary: Mean=28.88, Std. Dev.=4.824, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8698, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



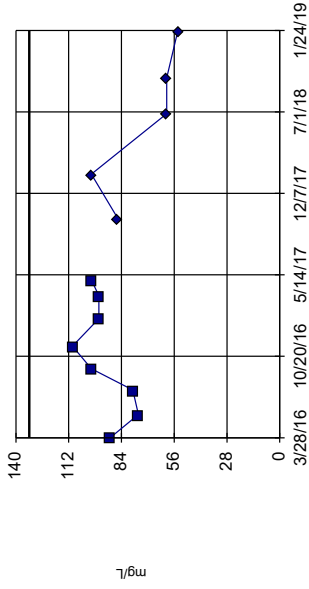
Background Data Summary: Mean=27.88, Std. Dev.=18.44, n=8, 12.5% NDs, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.841, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



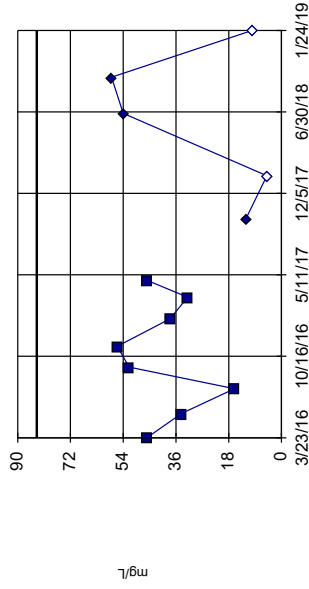
Background Data Summary: Mean=93.13, Std. Dev.=11.73, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9276, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric

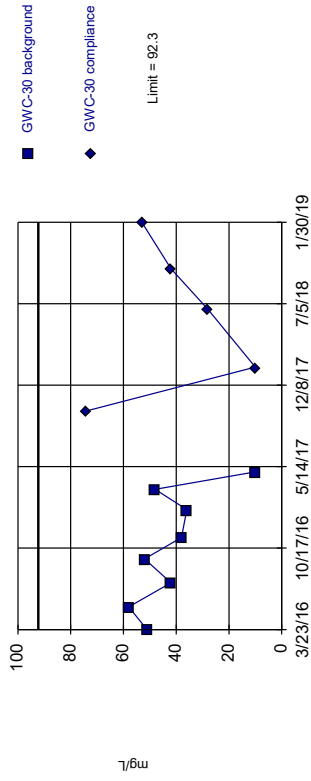


Background Data Summary: Mean=40, Std. Dev.=12.83, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9497, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

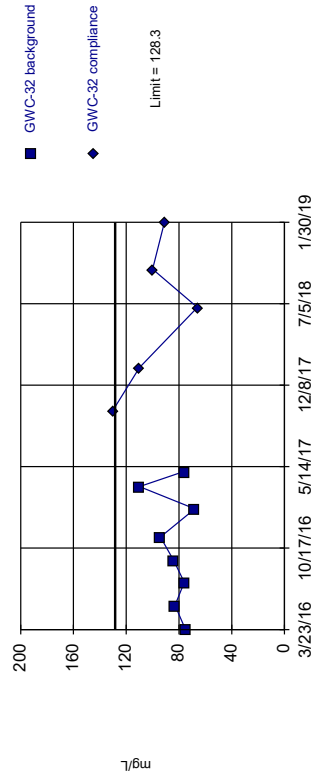


Background Data Summary: Mean=41.88, Std. Dev.=14.88, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8703, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

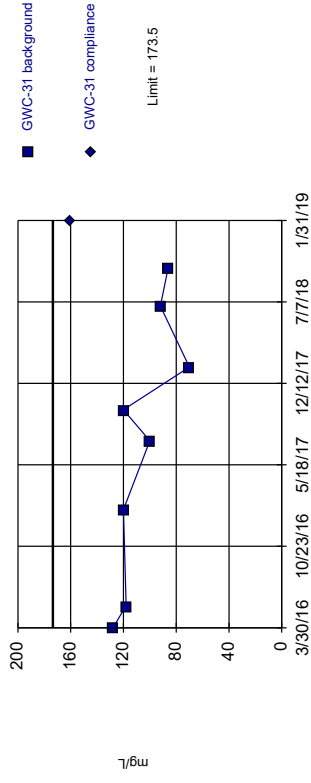


Background Data Summary: Mean=83.25, Std. Dev.=13.3, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8916, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

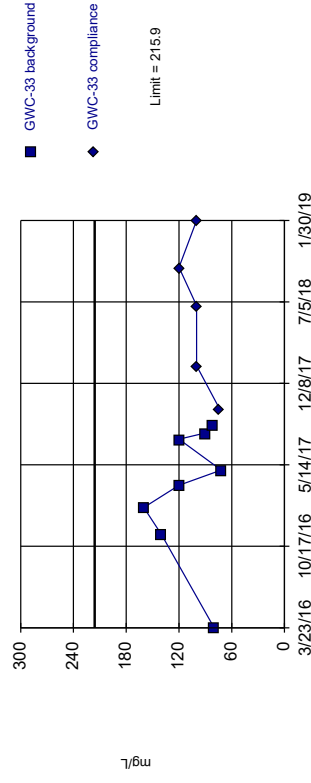


Background Data Summary: Mean=104.3, Std. Dev.=20.44, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.916, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric



Background Data Summary: Mean=108, Std. Dev.=31.84, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9143, critical = 0.749, Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

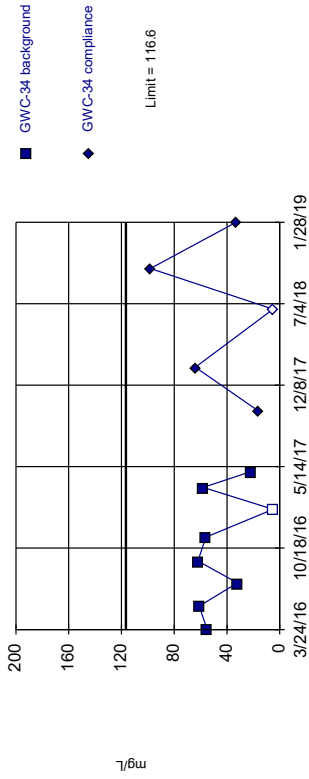
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Hollow symbols indicate censored values.

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=43.88, Std. Dev.=21.46, n=8, 12.5% NDs, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8205, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

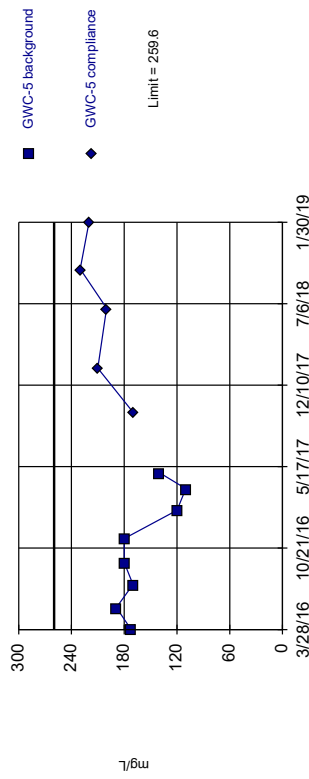
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=157.6, Std. Dev.=30.09, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8609, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

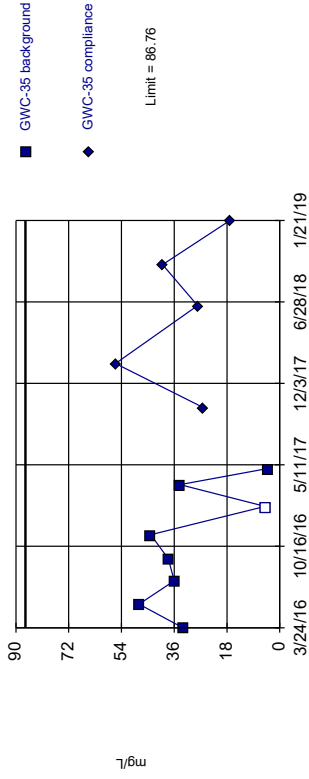
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Hollow symbols indicate censored values.

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=30.25, Std. Dev.=16.67, n=8, 12.5% NDs, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8204, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

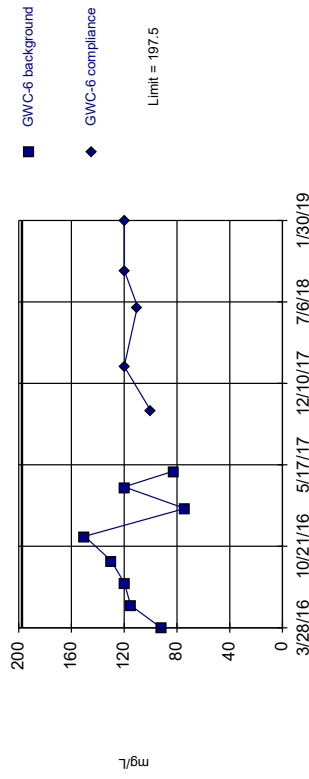
Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Within Limit

Total Dissolved Solids

Intrawell Parametric



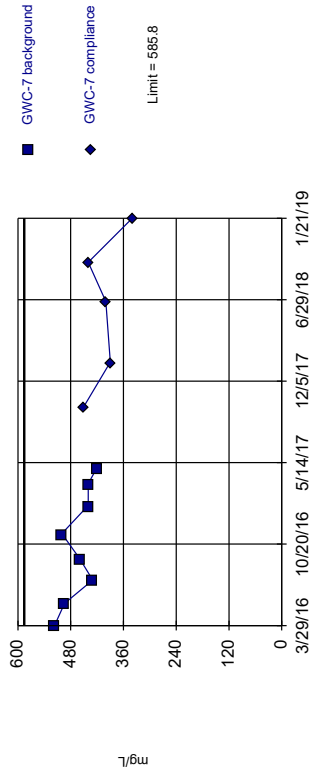
Background Data Summary: Mean=110.4, Std. Dev.=25.71, n=8, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9511, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007898.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



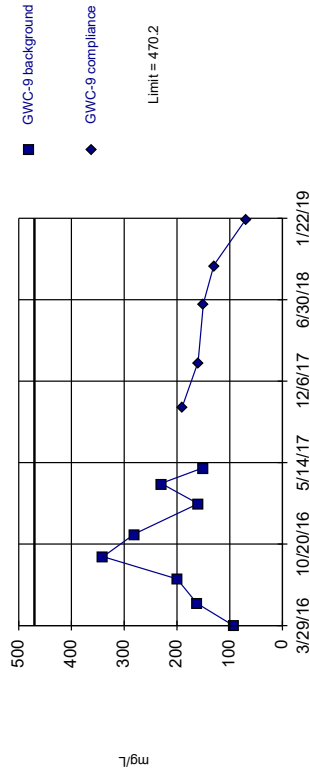
Background Data Summary: Mean=462.6, Std. Dev.=36.35, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9029, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



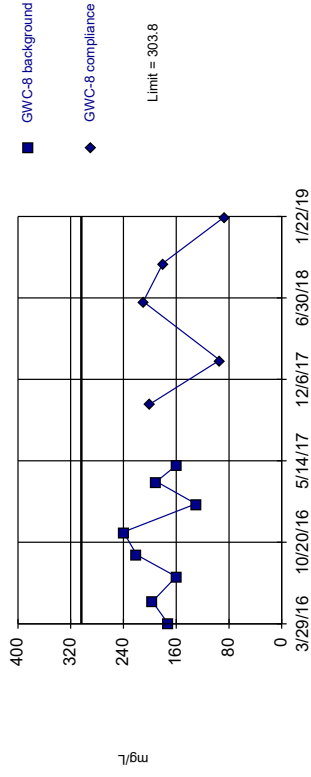
Background Data Summary: Mean=201.9, Std. Dev.=79.16, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9576, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=183.5, Std. Dev.=35.5, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.977, critical = 0.749. Kappa = 3.39 (c=23, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.00007899.

Prediction Limit Analysis Run 3/14/2019 5:39 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

# Prediction Limit

Constituent: pH Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
1/25/2016	6.27							
1/26/2016			6.11		7.37			
1/27/2016							6.52	
3/29/2016			6.59		7.53		7.49	
5/25/2016	6.44		6.31		7.44		6.76	
7/25/2016			6.287783					
7/26/2016							6.859244	
7/27/2016	6.364588							
9/15/2016					6.283325		7.565879	
9/16/2016	6.202937							
9/19/2016			6.027665					
11/16/2016			6.04		6.99			
11/17/2016	5.95						6.63	
1/31/2017	6.47		5.94		7.065 (D)			
3/23/2017			6.06		7.41		6.85	
5/2/2017	6.69			5.95				
5/3/2017					7.32		6.57	
8/4/2017								6.77 (D)
8/7/2017				6.11 (D)		7.25 (D)		
8/8/2017	6.67 (D)							
1/24/2018		6.47 (D)		6.17 (D)		7.02 (D)		
1/25/2018								6.63 (D)
6/20/2018				5.92				6.66
6/21/2018		5.76						
6/26/2018						7.43		
9/27/2018		5.5		5.97				
9/28/2018						7.3		
10/2/2018								6.91
1/22/2019								6.61
1/24/2019				6.25				
1/25/2019						7.49		
1/31/2019		5.75						

# Prediction Limit

Constituent: pH Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17
1/27/2016	5.88		6.67		6.03		6.27	
3/30/2016	6.01		6.7				6.22	
5/25/2016	5.52		6.52		6.22		6.24	
7/26/2016	6.066915		6.719922					
7/27/2016					6.30178		6.321385	
9/15/2016	5.220961							
9/20/2016			6.519229					
11/17/2016	5.05		6.54		5.9		6.11	
2/1/2017	5.5		6.56		6.14		6.18	
3/23/2017	5.41							
3/24/2017					5.99		6.34	
5/3/2017		5.71	6.5		6.06		6.09	
8/4/2017				6.55 (D)				
8/7/2017		5.03 (D)			6.12 (D)			6.16 (D)
1/25/2018		5.64 (D)		6.45 (D)		6.1 (D)		6.2 (D)
6/20/2018		5.05		7.24		6.08		
6/26/2018								6.1
10/1/2018		5.59		6.5		6.12		
10/2/2018								6.16
1/22/2019		5.72		6.48				
1/24/2019								6.31
1/25/2019						6.05		

# Prediction Limit

Constituent: pH Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20	GWC-21	GWC-21
1/26/2016							5.39	
1/27/2016			6.14		6.08			
3/30/2016	6.03		6.1		6.27		5.88	
5/26/2016	6.03		5.99		6.23		5.55	
7/25/2016	6.066342		6.063209		6.3145			
7/26/2016							5.64011	
9/19/2016	6.040669		6.276656					
9/20/2016					7.120962		6.575025	
11/17/2016			5.97				5.56	
2/1/2017	5.98							
2/2/2017					6.17			
3/24/2017	5.85		5.82					
3/28/2017							5.36	
5/3/2017	5.92		5.89					
5/4/2017					6.38		5.55	
8/7/2017	5.98 (D)			5.93 (D)	6.19 (D)			5.61 (D)
1/25/2018		6.03 (D)		5.89 (D)				
1/26/2018						6.16 (D)		5.65 (D)
6/20/2018								5.48
6/21/2018		5.87		5.78		6.65		
9/27/2018				5.82		6.29		5.38
9/28/2018		5.77						
1/24/2019								6.01
1/28/2019		6.03		5.96		6.31		

# Prediction Limit

Constituent: pH Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25
1/20/2016					5.41		5.98	
1/21/2016			6.24					
1/26/2016	6.46							
3/28/2016							5.1	
3/29/2016			4.87					
3/31/2016	6.53							
5/25/2016			6.11		6.46		5.7	
5/26/2016	6.69							
7/26/2016	6.620398							
7/27/2016					6.119047		5.966094	
9/16/2016					6.310241			
9/19/2016							6.070052	
9/20/2016	6.696588		7.295281					
11/15/2016							6.35	
11/17/2016	6.52							
11/18/2016			6.32		5.62			
1/20/2017							6.54	
1/23/2017							6.59	
2/3/2017			5.91					
2/6/2017					5.36			
3/23/2017								7.25
3/24/2017								6.56
3/28/2017	6.87		5.86		5.87			
5/3/2017	6.59				7.5			
5/4/2017			6.2					
8/3/2017								6.33 (D)
8/8/2017		6.59 (D)		6.07 (D)				
1/24/2018								6.12 (D)
1/25/2018		6.49 (D)		6.06 (D)		5.74 (D)		
6/20/2018		6.42		5.84				
6/27/2018						5.51		6.28
9/26/2018								6.4
9/28/2018						5.28		
10/1/2018		6.7		5.96				
1/24/2019		6.69						6
1/25/2019				5.97				
1/31/2019						5.28		





# Prediction Limit

Constituent: pH Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35
1/21/2016					5.51		5.19	
1/25/2016	6.13		6.23					
3/23/2016	6.22		6.7					
3/24/2016					6.66		6.32	
5/23/2016	5.99				5.92			
5/24/2016			6.26					
5/25/2016							5.58	
7/21/2016					6.008569		5.701591	
7/22/2016			6.956045					
9/15/2016					5.982305		5.629095	
9/16/2016	6.260319		6.411956					
11/15/2016	6.22				6.03		5.66	
11/16/2016			6.15					
1/25/2017	6.17		6.09		5.92			
1/26/2017							5.61	
3/22/2017			6.18		5.66		5.42	
5/1/2017	6.18			6.45		5.88		
5/2/2017								5.72
8/3/2017	6.32 (D)			6.52 (D)		5.98 (D)		5.65 (D)
1/22/2018		6.19 (D)		6.22 (D)				
1/23/2018						6.11 (D)		5.64 (D)
6/19/2018								5.59
6/20/2018						5.97		
6/26/2018		5.97		6.15				
10/1/2018								5.55
10/2/2018		6.06		6.47		5.86		
1/21/2019								5.53
1/28/2019						6.08		
1/30/2019		6.12		6.41				

# Prediction Limit

Constituent: pH Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7	GWC-8	GWC-8
1/20/2016	6.15		5.97		6.23			
1/26/2016							5.99	
3/28/2016	7.05		6.5					
3/29/2016					6.42		6.45	
5/23/2016	6.47							
5/24/2016			6		6.38		6.17	
7/21/2016	6.424029		6.08222					
7/22/2016					6.438562			
7/26/2016							6.291124	
9/15/2016	7.042684		6.383623		6.347438			
9/19/2016							6.550086	
11/15/2016	6.29							
11/16/2016			5.99		6.35		5.96	
1/26/2017	6.29		6.12		6.45		6.14	
3/23/2017							5.95	
5/2/2017	6.98		5.86		6.32			6.11
8/3/2017		6.18 (D)		5.92 (D)				
8/4/2017						6.35 (D)		
8/7/2017								6.02 (D)
1/23/2018		6.44 (D)		6.08 (D)		6.55 (D)		
1/24/2018								5.91 (D)
6/21/2018								5.9
6/25/2018		6.42		5.86		6.26		
9/25/2018				5.87				
9/26/2018								5.9
10/2/2018						6.31		
10/3/2018		6.33						
1/21/2019						6.33		
1/22/2019								5.95
1/30/2019		6.94		5.99				

# Prediction Limit

Constituent: pH, Sulfate Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12
3/29/2016	5.86				<1		19.1889	
3/30/2016			24.0688					
5/24/2016	5.81							
5/25/2016			20.1		<1		19.8	
7/22/2016							20	
7/25/2016	5.876175				<1			
7/27/2016			28					
9/15/2016							20	
9/16/2016			29					
9/19/2016	6.323668				<1			
11/16/2016					<1		19	
11/17/2016			40					
1/31/2017	5.75				3.7		23	
2/1/2017			40					
3/23/2017	5.97				1.5		23	
3/24/2017			28					
5/2/2017	6.11				<1			
5/3/2017			38				22	
8/7/2017	5.78 (D)							
10/4/2017				45		<1		22
1/24/2018		5.98 (D)				<1		22
1/25/2018				33				
6/20/2018						<1		
6/21/2018		5.68		21				
6/26/2018								23
9/26/2018		5.71						
9/27/2018				28		<1		
9/28/2018								24
1/22/2019		5.8						
1/24/2019						0.77 (J)		
1/25/2019								25
1/31/2019				20				



# Prediction Limit

Constituent: Sulfate Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20
3/30/2016	0.8313 (J)		0.6239 (J)		2.3237		1.0356	
5/25/2016	0.195 (J)							
5/26/2016			0.598 (J)		0.574 (J)		0.979 (J)	
7/25/2016			<1		<1		0.94 (J)	
7/27/2016	0.7 (J)							
9/19/2016	<1		<1		<1			
9/20/2016							0.83 (J)	
11/17/2016	0.75 (J)		<1		<1		0.71 (J)	
2/1/2017	<1		<1					
2/2/2017					8.6		0.82 (J)	
3/24/2017	<1		<1		2.5			
3/28/2017							0.75 (J)	
5/3/2017	<1		<1		0.88 (J)			
5/4/2017							1.1	
10/4/2017		<1						
10/5/2017				<1		0.81 (J)		
10/6/2017								0.79 (J)
1/25/2018		<1		<1		0.77 (J)		
1/26/2018								<1
6/21/2018				<1		<1		1.3
6/26/2018		<1						
9/27/2018						<1		1.2
9/28/2018				<1				
10/2/2018		<1						
1/24/2019		0.88 (J)						
1/28/2019				0.69 (J)		1.2		0.9 (J)







# Prediction Limit

Constituent: Sulfate Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33	GWC-34	GWC-34
3/23/2016			12.8473		19.6956			
3/24/2016							1.8782	
3/30/2016	15.0114							
5/23/2016							1.44	
5/24/2016			13.5					
5/25/2016	19.1							
7/21/2016							1.6	
7/22/2016			12					
9/15/2016							1.6	
9/16/2016			12					
11/15/2016			13				1.3	
11/17/2016					22			
1/25/2017	13				50		1.5	
1/26/2017			9.2					
3/22/2017							1.5	
3/23/2017					28			
3/24/2017			9.2					
5/1/2017					25		1.4	
5/2/2017			9					
7/19/2017	15				22			
8/4/2017					25			
8/24/2017					19			
10/3/2017								1.4
10/5/2017						18		
10/6/2017	19			8.8				
1/23/2018	15			9.4		14		1.2
6/20/2018								1.7
6/26/2018				12		9.2		
6/27/2018	14							
10/2/2018				9.7		11		1.4
10/3/2018	18							
1/28/2019								1.6
1/30/2019				11		14		
1/31/2019		10						

# Prediction Limit

Constituent: Sulfate Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7
3/24/2016	2.7482							
3/28/2016			19.9405		11.0351			
5/23/2016	2.76		21					
5/24/2016					12.8		85.8	
7/21/2016	2.8		17		16			
7/22/2016							86	
9/15/2016	2.4		16		15		84	
11/15/2016	2.3		15					
11/16/2016					15		89	
1/26/2017	2.7		13		16		85	
3/22/2017	2.4		13		13		81	
5/2/2017	2.5		25		10		76	
10/3/2017		2.5		21		11	74	
1/23/2018		2.4		26		10		57
6/19/2018		2.7						
6/25/2018				30		11		62
9/25/2018						14		
10/1/2018		2.8						
10/2/2018								60
10/3/2018				29				
1/21/2019		2.7						64
1/30/2019				31		9.7		

# Prediction Limit

Constituent: Sulfate, Total Dissolved Solids Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8	GWC-9	GWC-9	GWC-10	GWC-10	GWC-11	GWC-11
3/29/2016	15.2958		14.6203				163	
3/30/2016					177			
5/24/2016	18.5		14.7					
5/25/2016					181		197	
7/25/2016			20				220	
7/26/2016	19							
7/27/2016					210			
9/16/2016					190			
9/19/2016	31		22				240	
11/16/2016	36		22				200	
11/17/2016					240			
1/26/2017	49							
1/31/2017			44				110	
2/1/2017					120			
3/23/2017	21		29				140	
3/24/2017					180			
5/2/2017			18				180	
5/3/2017	17				170			
10/3/2017				17				
10/4/2017						230		210
10/5/2017		16						
1/24/2018		10		14				130
1/25/2018						190		
6/20/2018								140
6/21/2018		11		13		32		
9/26/2018		20		17				
9/27/2018						200		130
1/22/2019		12		12				
1/24/2019								<10
1/31/2019						150		

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 3/14/2019 5:56 PM View: State IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15
3/29/2016	151		48					
3/30/2016					165		94	
5/25/2016	175		61		233		90	
7/22/2016	130							
7/26/2016			40		330		64	
9/15/2016	160		54		350			
9/20/2016							72	
11/16/2016	230							
11/17/2016			64		440		46	
1/31/2017	170		36					
2/1/2017					150		70	
3/23/2017	220		76		250		100	
5/3/2017	150		32		190		84	
10/4/2017		190				520		60
10/5/2017				42				
1/24/2018		210						
1/25/2018				48		160		86
6/20/2018				12		310		64
6/26/2018		200						
9/28/2018		180						
10/1/2018						250		94
10/2/2018				72				
1/22/2019				42		200		79
1/25/2019		170						

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19
3/30/2016	75		97		84		69	
5/25/2016	91		97					
5/26/2016					80		75	
7/25/2016					54		44	
7/27/2016	76		110					
9/16/2016	78							
9/19/2016			110		96		74	
11/17/2016	110		74		42		34	
2/1/2017	70		100		66			
2/2/2017							96	
3/24/2017	100		110		88		82	
5/3/2017	18		28		64		42	
10/4/2017				84				
10/5/2017		10				50		50
1/25/2018		56		72		70		60
6/20/2018		84						
6/21/2018						84		76
6/26/2018				72				
9/27/2018								62
9/28/2018						74		
10/1/2018		86						
10/2/2018				120				
1/24/2019				82				
1/25/2019		51						
1/28/2019						77		69

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22	GWC-23	GWC-23
3/29/2016							53	
3/30/2016	88		42					
3/31/2016					102			
5/25/2016							33	
5/26/2016	65		42		108			
7/25/2016	80							
7/26/2016			48		82			
7/27/2016							30	
9/20/2016	84		56		100		42	
11/17/2016	84		34		110			
11/18/2016							4 (J)	
2/2/2017	100		36					
2/3/2017					110		20	
3/28/2017	82		48		98		38	
5/3/2017					98			
5/4/2017	88		22				54	
10/5/2017						<5		26
10/6/2017		120		70				
1/25/2018						98		32
1/26/2018		96		52				
6/20/2018				36		94		54
6/21/2018		78						
9/27/2018		110		56				
10/1/2018						100		140
1/24/2019				42		100		
1/25/2019								<10
1/28/2019		95						

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27
3/23/2016							46	
3/24/2016					48			
3/28/2016			90					
3/30/2016	39							
5/24/2016							34	
5/25/2016	30				42			
5/26/2016			75					
7/26/2016					20		16	
7/27/2016	28		78					
9/16/2016	22							
9/19/2016			100		48		52	
11/11/2016							56	
11/14/2016					40			
11/15/2016			110					
11/18/2016	28							
1/19/2017					10			
1/20/2017							38	
1/24/2017			96					
2/3/2017	26							
3/16/2017					<5		32	
3/23/2017			96					
3/29/2017	28							
4/28/2017							46	
5/1/2017					10			
5/2/2017			100					
5/4/2017	30							
10/3/2017								12
10/4/2017						60		
10/5/2017		12		86				
1/19/2018								<5
1/22/2018						40		
1/25/2018		20		100				
6/27/2018		24		60		8		54
9/26/2018				60				
9/27/2018						86		58
9/28/2018		16						
1/24/2019				54		34		<10
1/31/2019		30						

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
3/23/2016	51				75		80	
3/30/2016			128					
5/20/2016	58							
5/24/2016					83			
5/25/2016			118					
7/21/2016	42							
7/22/2016					76			
9/16/2016					84			
9/20/2016	52							
11/14/2016	38							
11/15/2016					94			
11/17/2016							140	
1/24/2017	36							
1/25/2017			120				160	
1/26/2017					68			
3/17/2017	48							
3/23/2017							120	
3/24/2017					110			
5/1/2017	10						72	
5/2/2017					76			
7/19/2017			100				120	
8/4/2017							90	
8/24/2017							82	
10/4/2017		74						
10/5/2017								74
10/6/2017			120			130		
1/23/2018			70			110		100
1/24/2018		10						
6/21/2018		28						
6/26/2018						66		100
6/27/2018			92					
10/2/2018						100		120
10/3/2018		42	86					
1/30/2019		53				91		100
1/31/2019				160				



# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6
3/24/2016	55		33					
3/28/2016					172		92	
5/23/2016	61		48		189			
5/24/2016							115	
7/21/2016	32		36		170		120	
9/15/2016	62		38		180		130	
11/15/2016	56		44		180			
11/16/2016							150	
1/25/2017	<5							
1/26/2017			<5		120		74	
3/22/2017	58		34		110		120	
5/1/2017	22							
5/2/2017			4 (J)		140		82	
10/3/2017		16		26		170		100
1/23/2018		64		56		210		120
6/19/2018				28				
6/20/2018		<5						
6/25/2018						200		110
9/25/2018								120
10/1/2018				40				
10/2/2018		98						
10/3/2018						230		
1/21/2019				17				
1/28/2019		33						
1/30/2019						220		120

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 3/14/2019 5:56 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

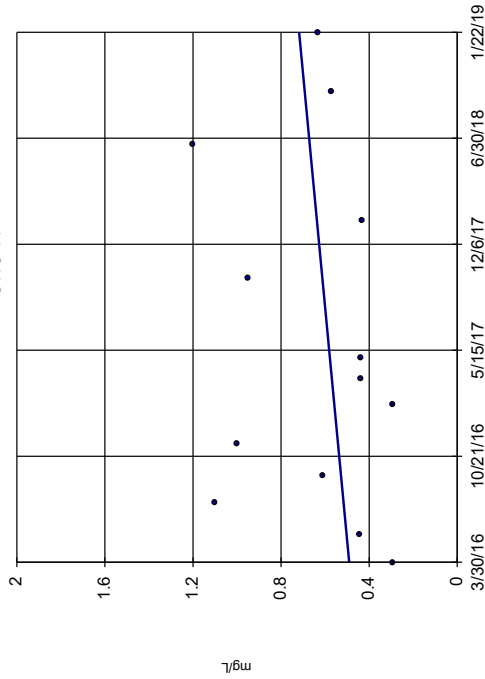
	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9
3/29/2016	517		172		93	
5/24/2016	494		196		162	
7/22/2016	430					
7/25/2016					200	
7/26/2016			160			
9/15/2016	460					
9/19/2016			220		340	
11/16/2016	500		240		280	
1/26/2017	440		130			
1/31/2017					160	
3/22/2017	440					
3/23/2017			190		230	
5/2/2017	420				150	
5/3/2017			160			
10/3/2017		450				190
10/5/2017				200		
1/23/2018		390				
1/24/2018				94		160
6/21/2018				210		150
6/25/2018		400				
9/26/2018				180		130
10/2/2018		440				
1/21/2019		340				
1/22/2019				86		68

# Trend Test

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 3/15/2019, 2:45 PM

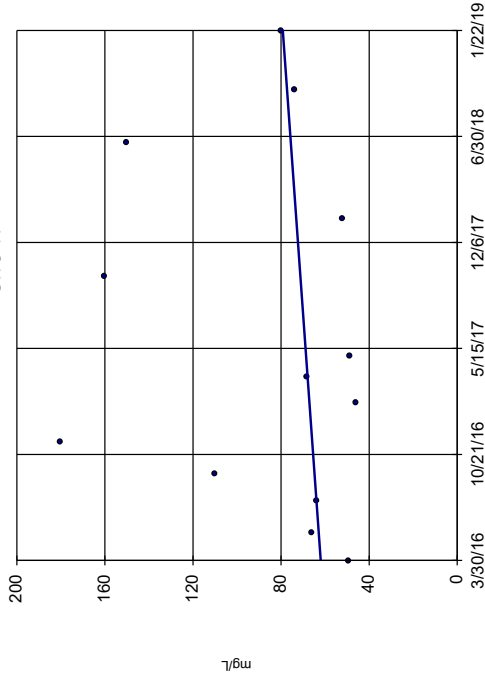
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GWC-14	0.08068	11	39	No	13	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-14	6.1	16	39	No	13	0	n/a	n/a	0.02	NP
<b>Cobalt (mg/L)</b>	<b>GWC-14</b>	<b>0.01562</b>	<b>106</b>	<b>89</b>	<b>Yes</b>	<b>23</b>	<b>13.04</b>	<b>n/a</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Cobalt (mg/L)	GWC-6	-0.0003523	-36	-95	No	24	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	GWC-9	-0.001049	-9	-89	No	23	4.348	n/a	n/a	0.02	NP
<b>Nickel (mg/L)</b>	<b>GWC-14</b>	<b>0.001908</b>	<b>98</b>	<b>63</b>	<b>Yes</b>	<b>18</b>	<b>38.89</b>	<b>n/a</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Nickel (mg/L)	GWC-7	0	-8	-58	No	17	23.53	n/a	n/a	0.02	NP
Nickel (mg/L)	GWC-9	0.00014	6	53	No	16	6.25	n/a	n/a	0.02	NP
Silver (mg/L)	GWC-10	0.0007589	4	13	No	6	83.33	n/a	n/a	0.02	NP
<b>Zinc (mg/L)</b>	<b>GWC-32</b>	<b>-0.007688</b>	<b>-69</b>	<b>-58</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>

### Boron GWC-14



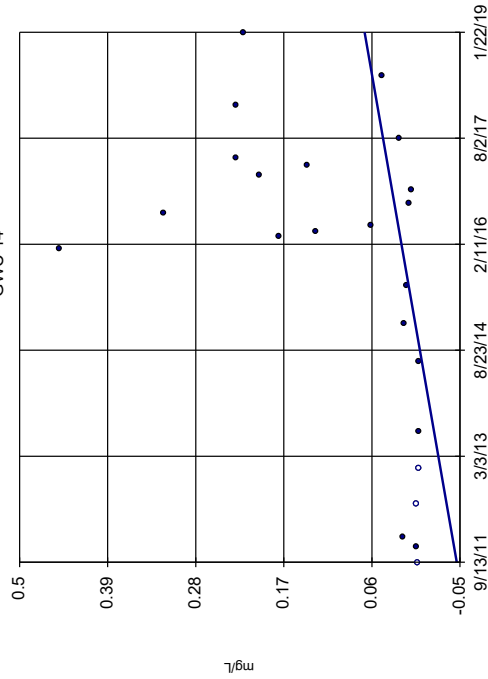
Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride GWC-14



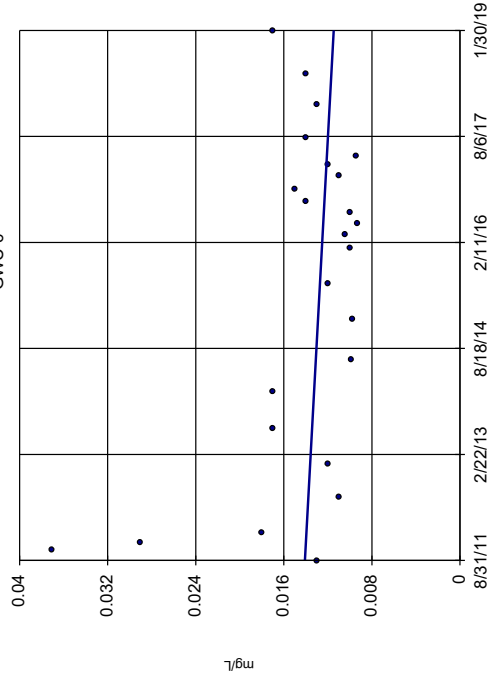
Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Cobalt GWC-14



Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

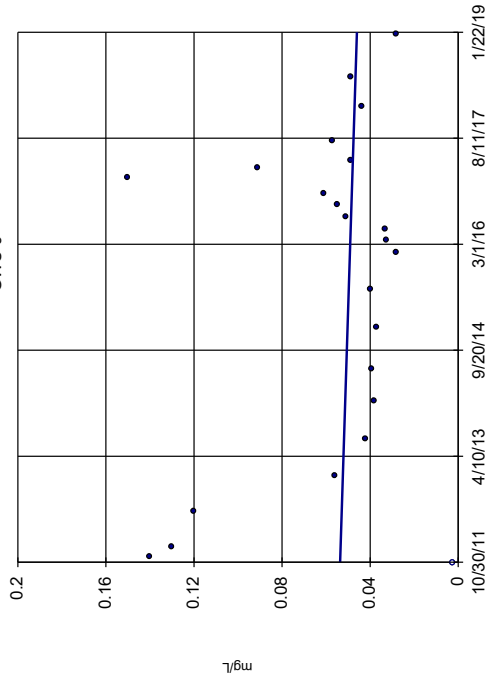
### Cobalt GWC-6



Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

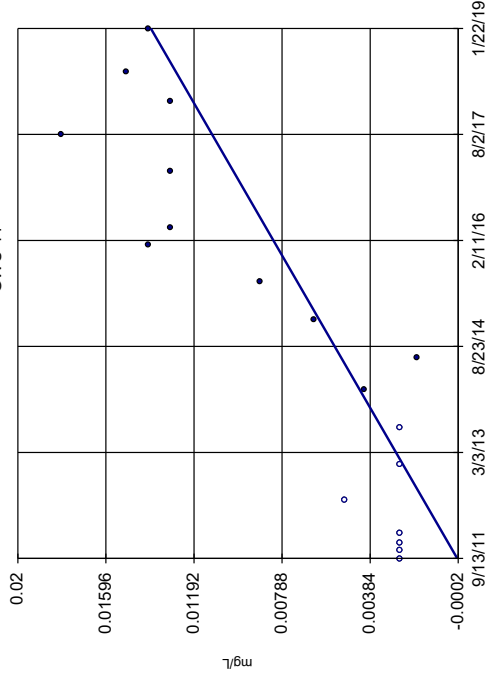
### Cobalt GWC-9



Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

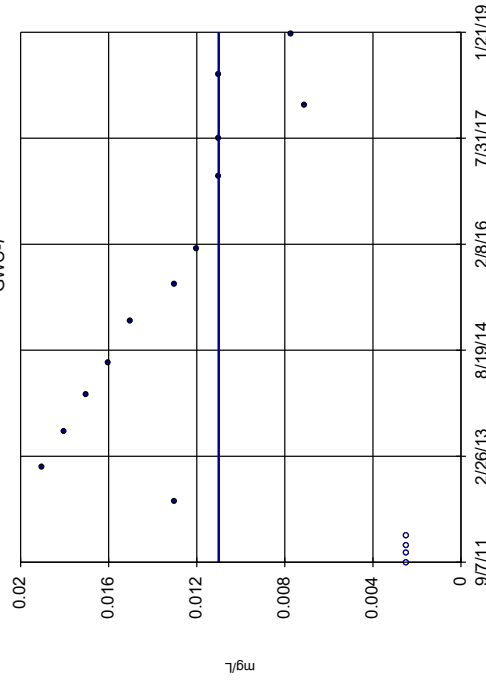
### Nickel GWC-14



Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

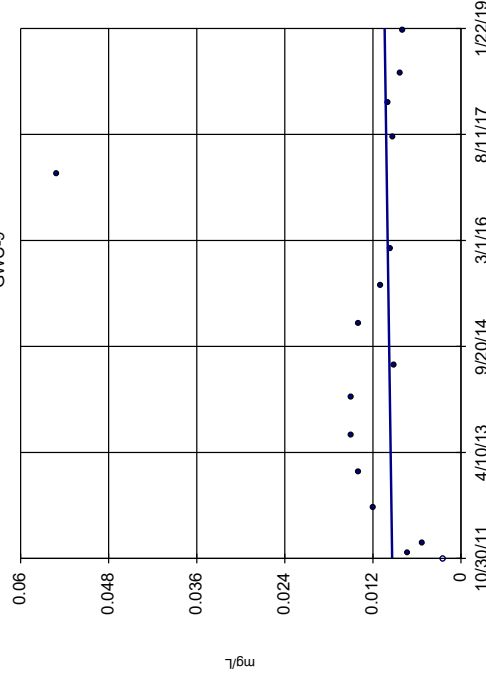
### Nickel GWC-7



Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

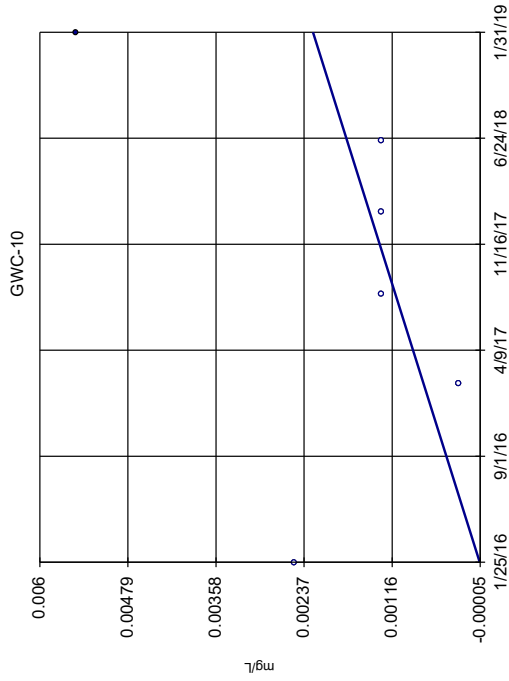
Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Nickel GWC-9



Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

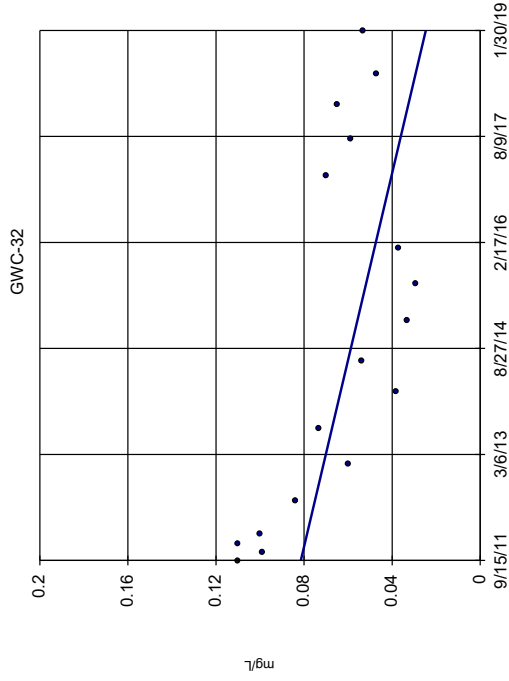
### Silver



n = 6  
Slope = 0.0007588  
units per year.  
Mann-Kendall  
statistic = 4  
critical = 13  
Trend not sig-  
nificant at 98%  
confidence level  
(α = 0.01 per  
tail).

Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

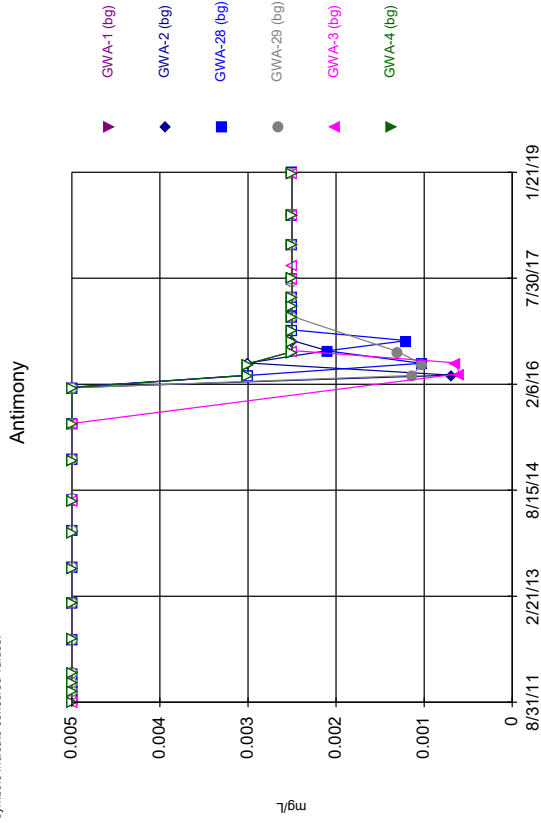
### Zinc



n = 17  
Slope = -0.007688  
units per year.  
Mann-Kendall  
statistic = -69  
critical = -58  
Decreasing trend  
significant at 98%  
confidence level  
(α = 0.01 per  
tail).

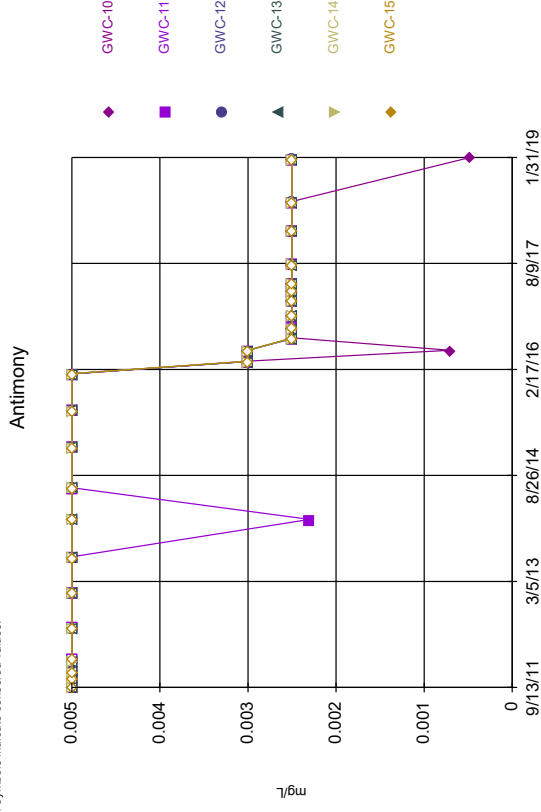
Sen's Slope Estimator Analysis Run 3/15/2019 2:43 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.



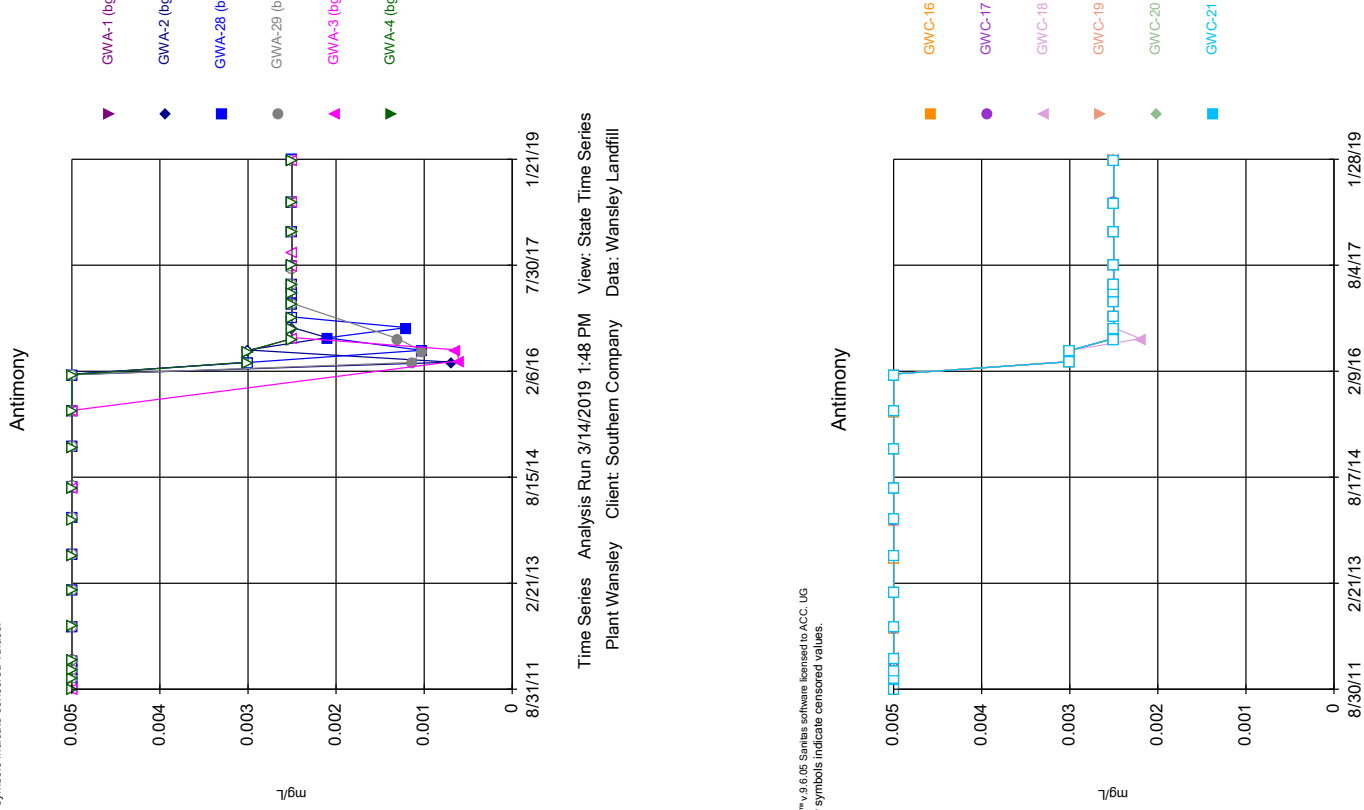
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.



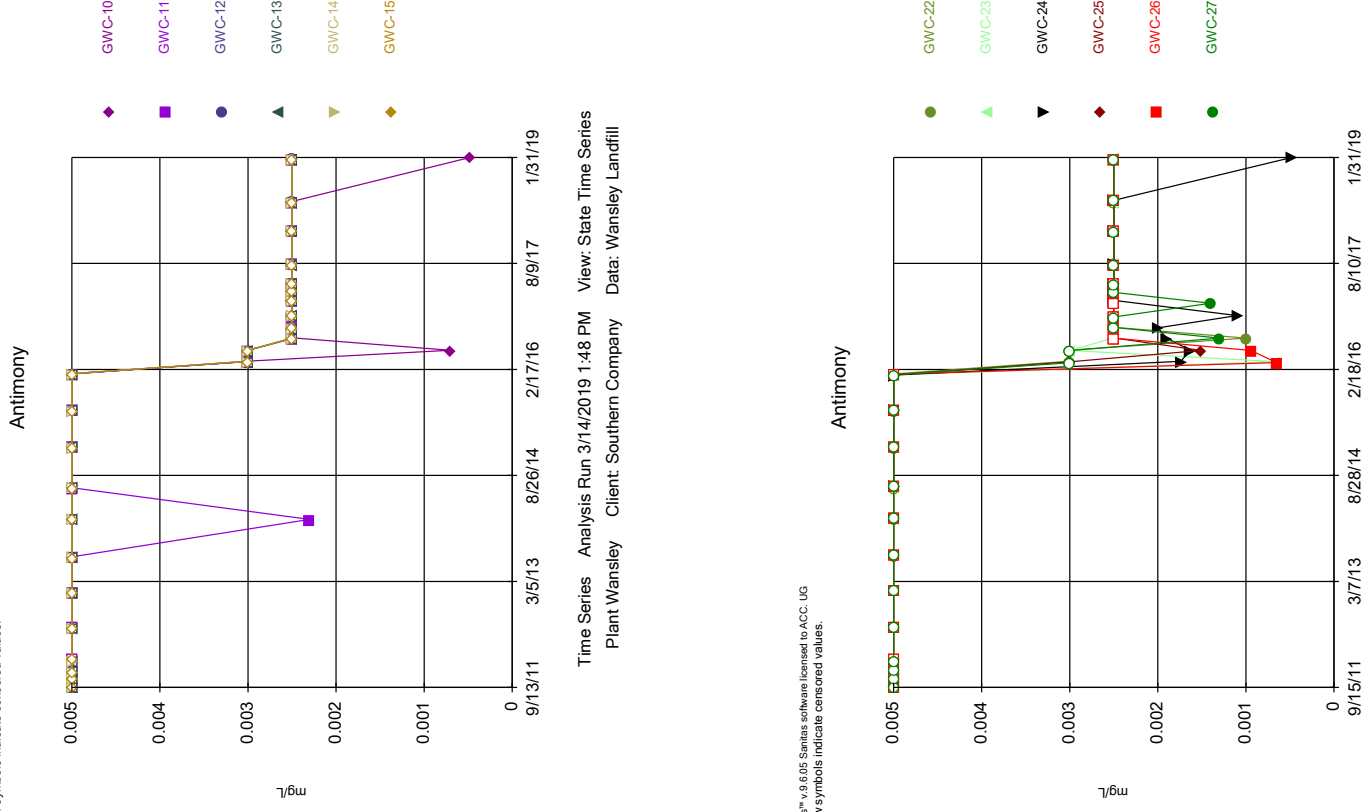
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

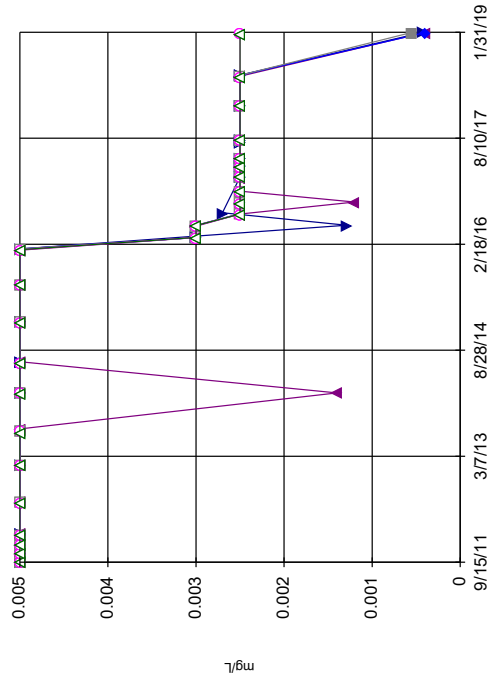
Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

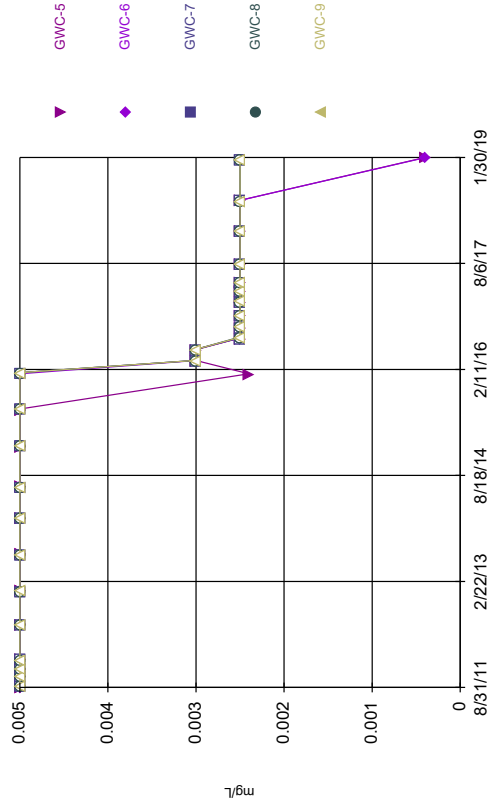
### Antimony



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

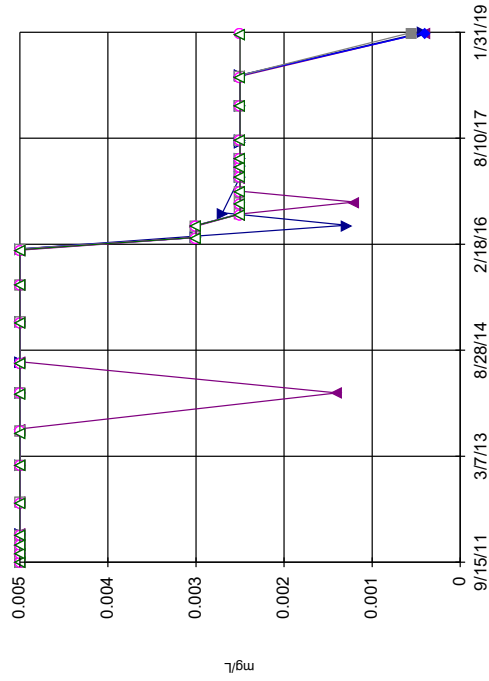
### Antimony



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

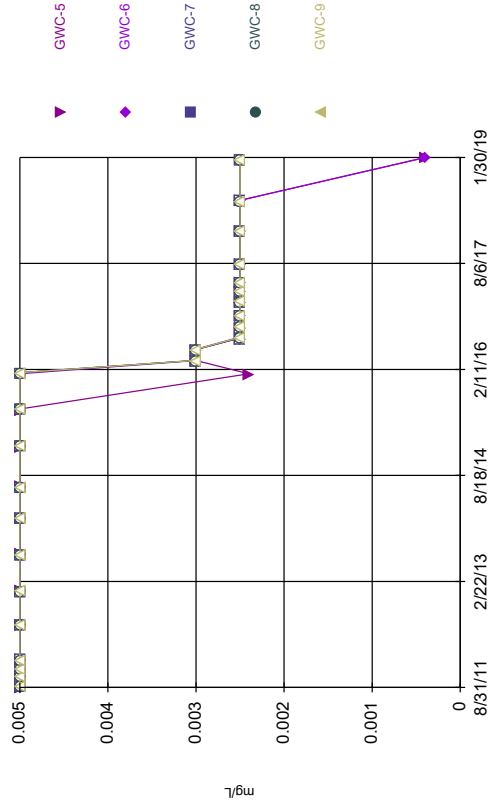
### Antimony



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

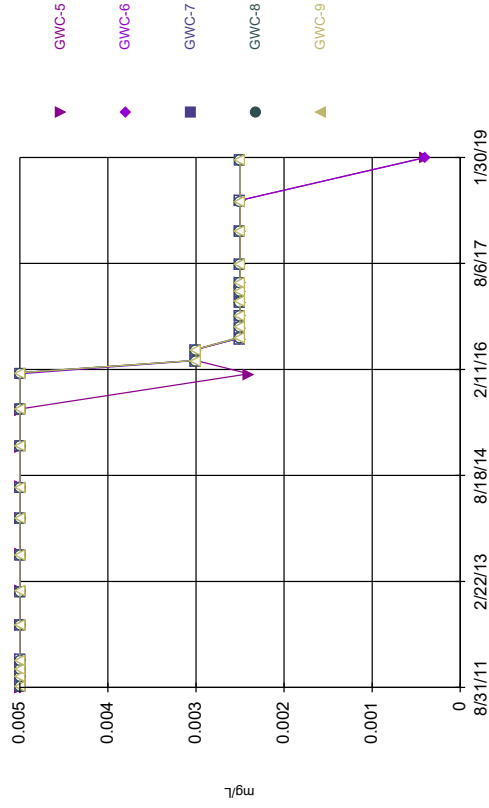
### Arsenic



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Arsenic

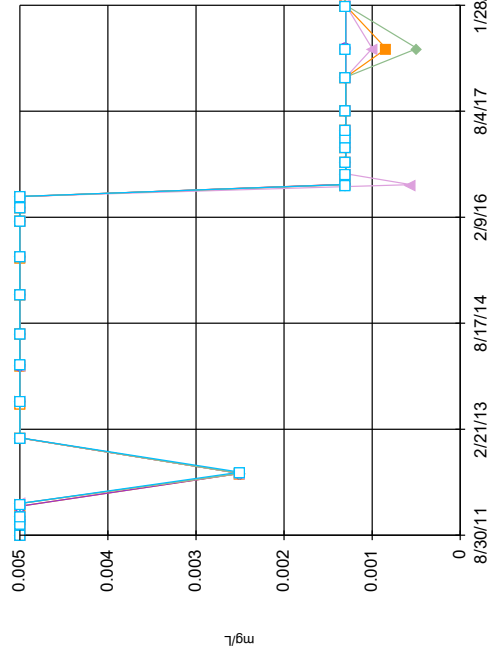


Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Arsenic

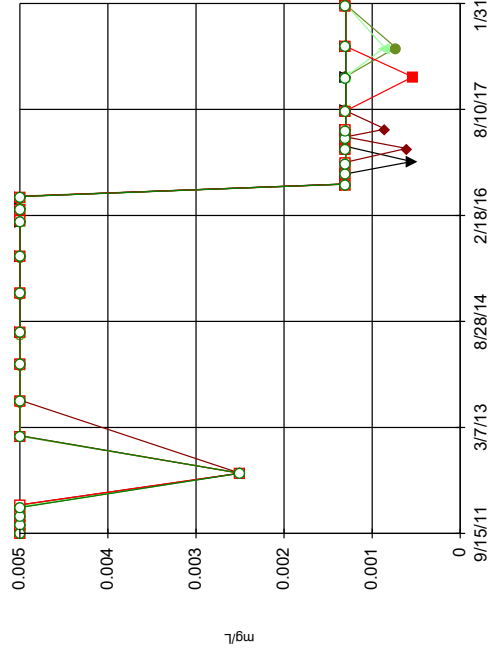


Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

GWC-16  
GWC-17  
GWC-18  
GWC-19  
GWC-20  
GWC-21

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Arsenic

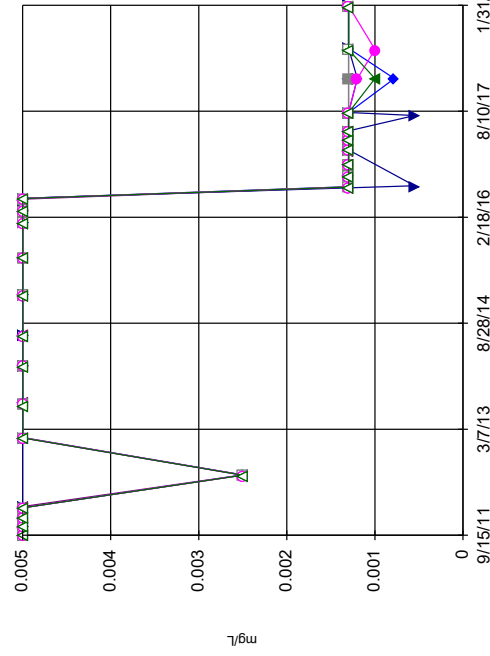


Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

GWC-22  
GWC-23  
GWC-24  
GWC-25  
GWC-26  
GWC-27

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Arsenic

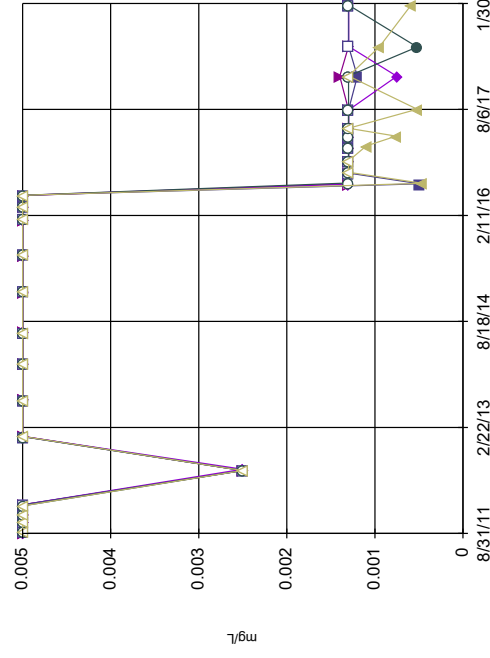


Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

GWC-30  
GWC-31  
GWC-32  
GWC-33  
GWC-34  
GWC-35

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Arsenic

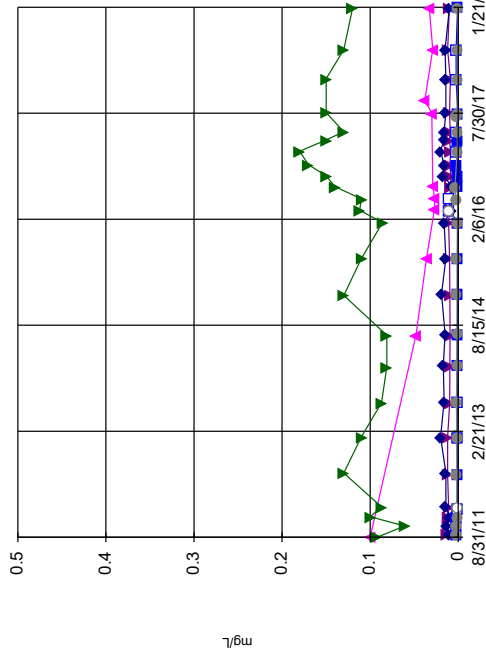


Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

GWC-5  
GWC-6  
GWC-7  
GWC-8  
GWC-9

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

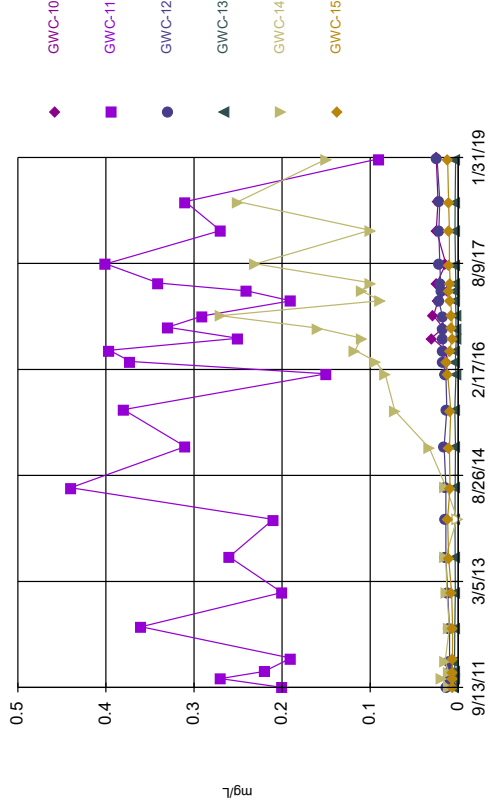
### Barium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

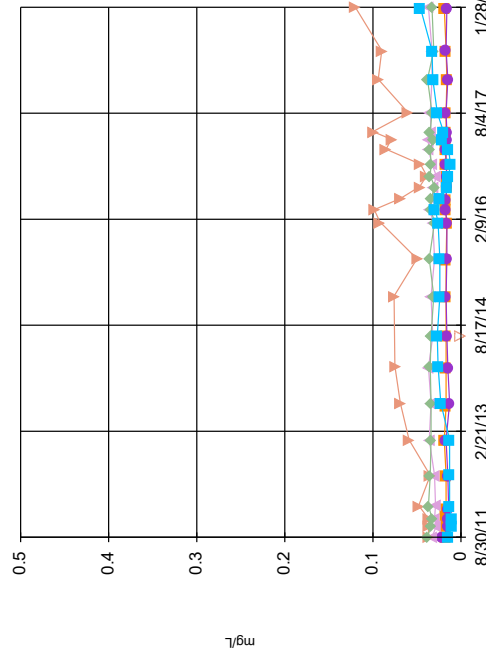
### Barium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

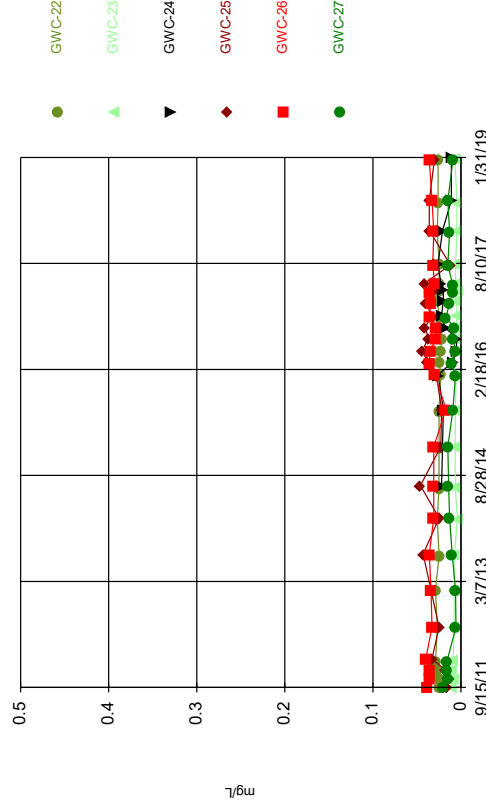
### Barium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

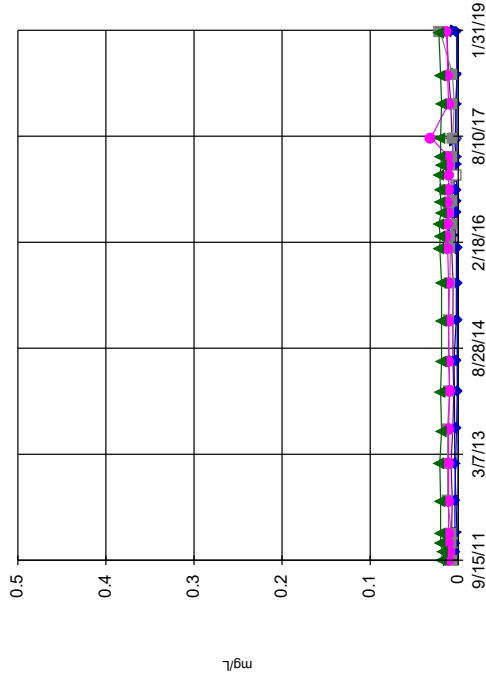
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### Barium



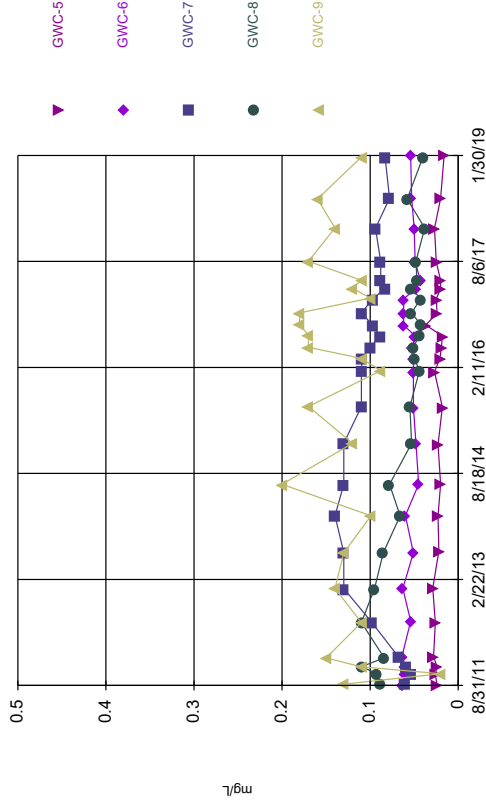
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Barium



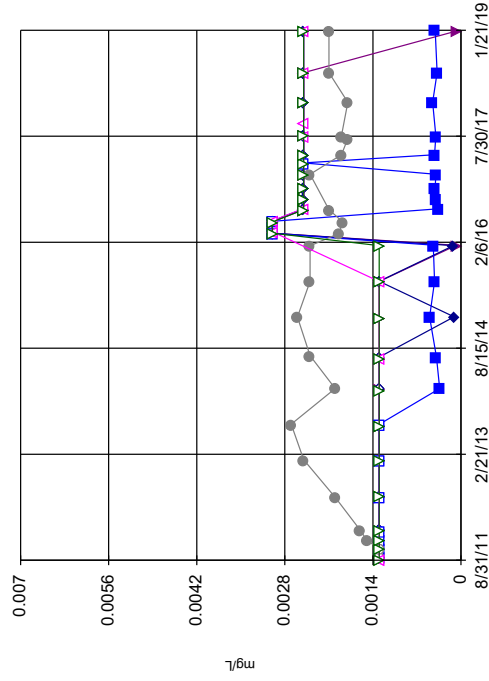
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Barium



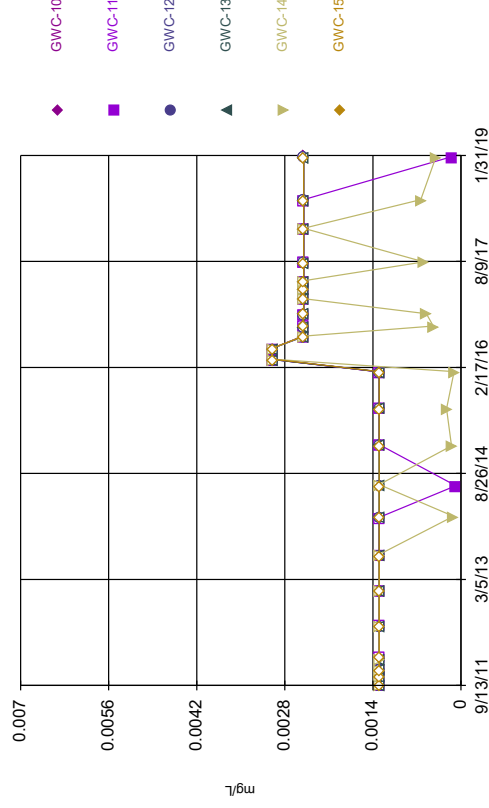
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

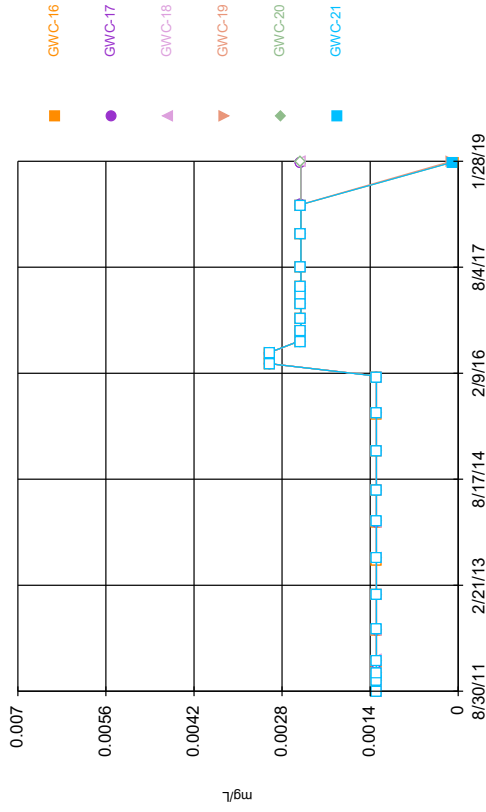
### Beryllium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

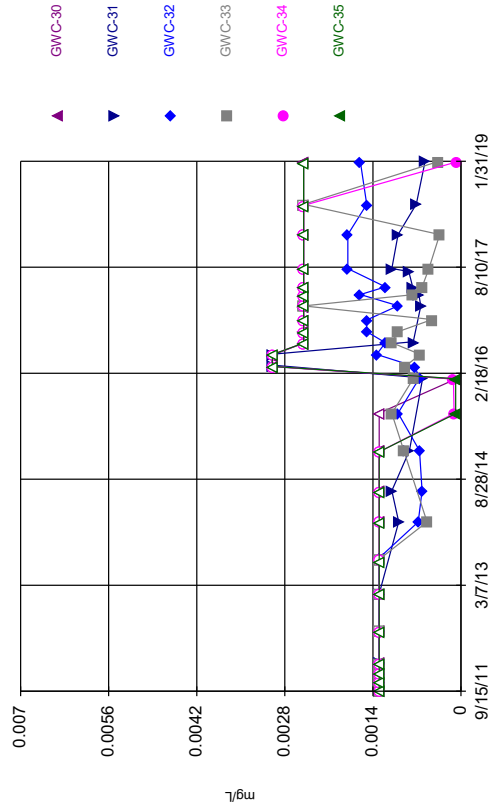
### Beryllium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

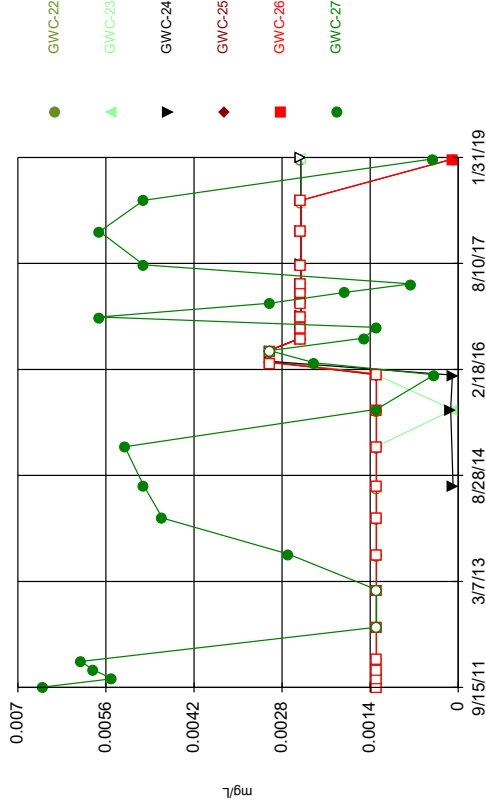
### Beryllium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

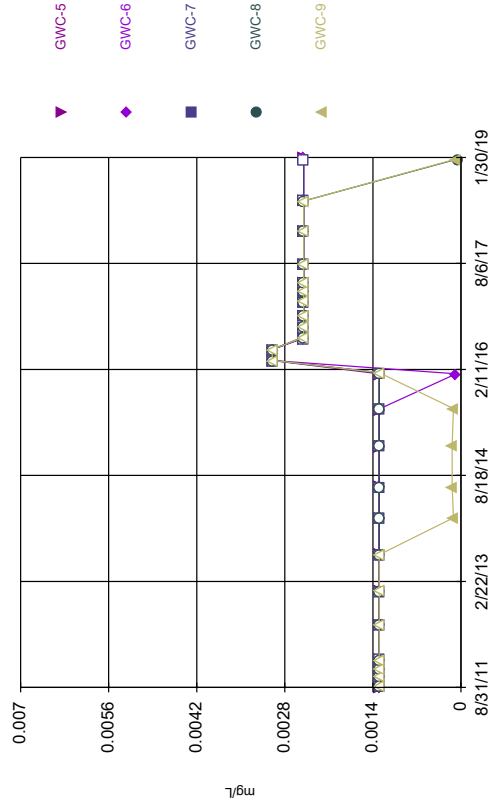
### Beryllium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

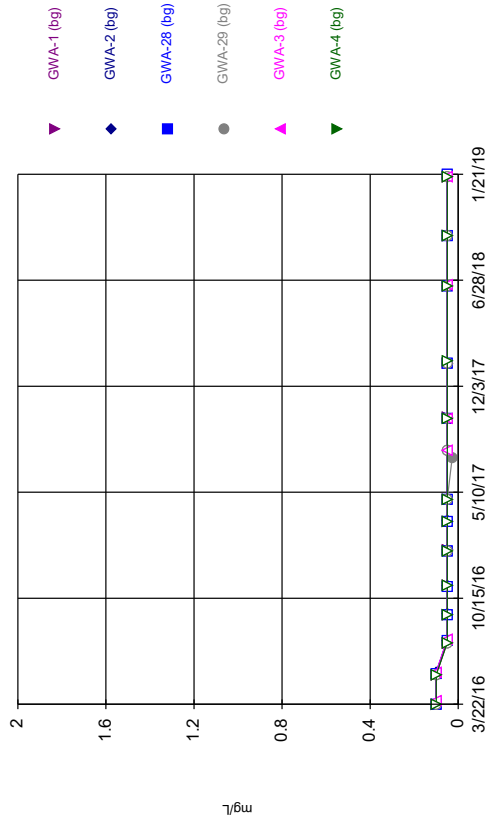
### Beryllium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

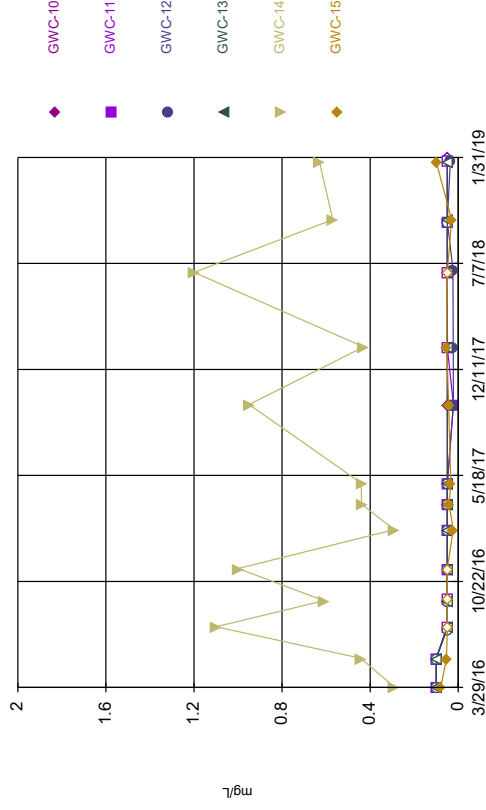
### Boron



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

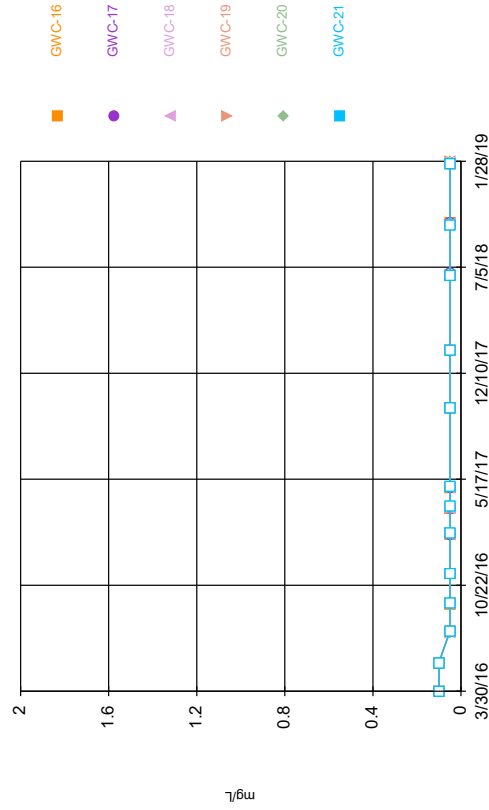
### Boron



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

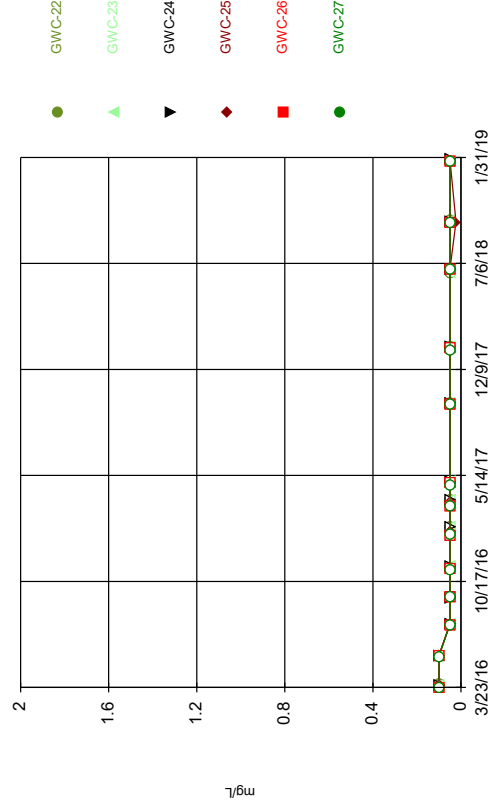
### Boron



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

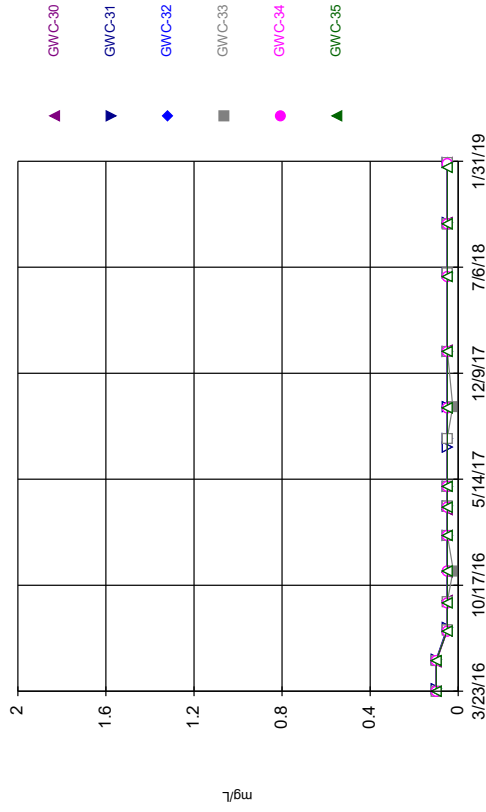
### Boron



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

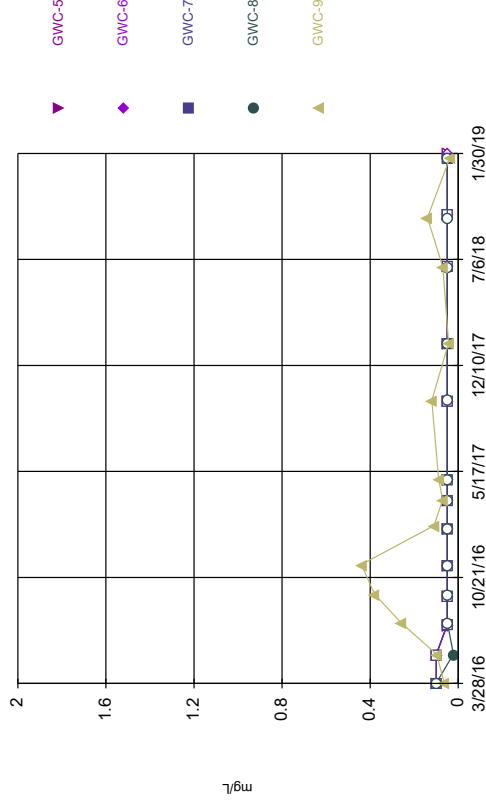
### Boron



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
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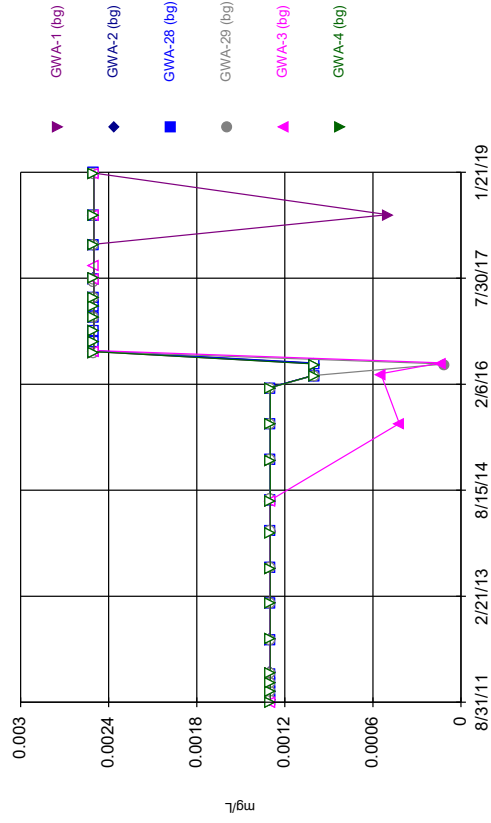
### Boron



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

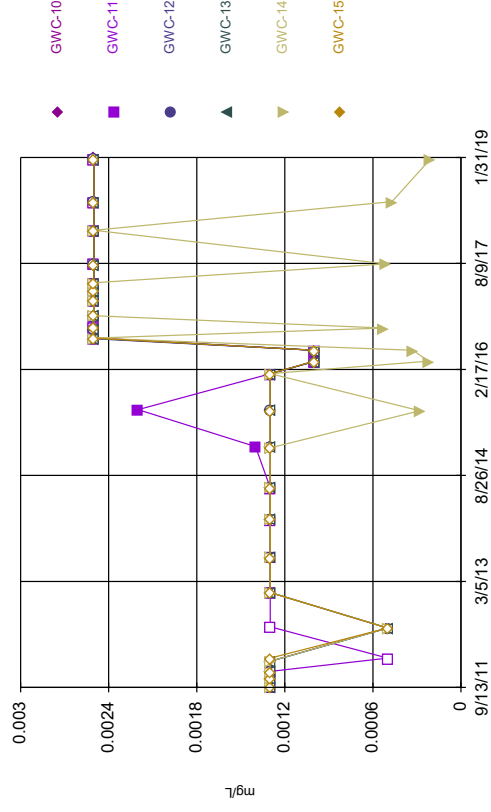
### Cadmium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

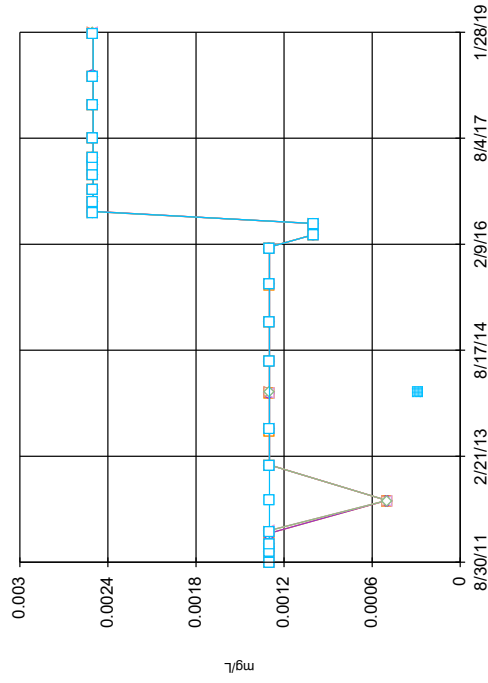
### Cadmium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

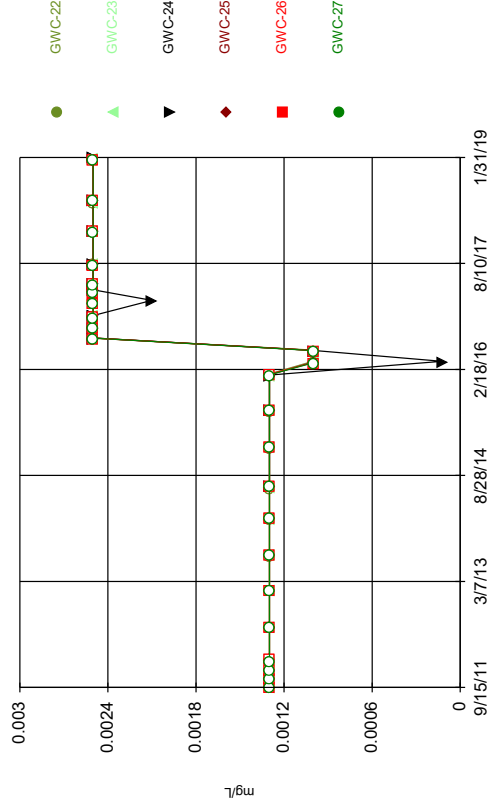
### Cadmium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

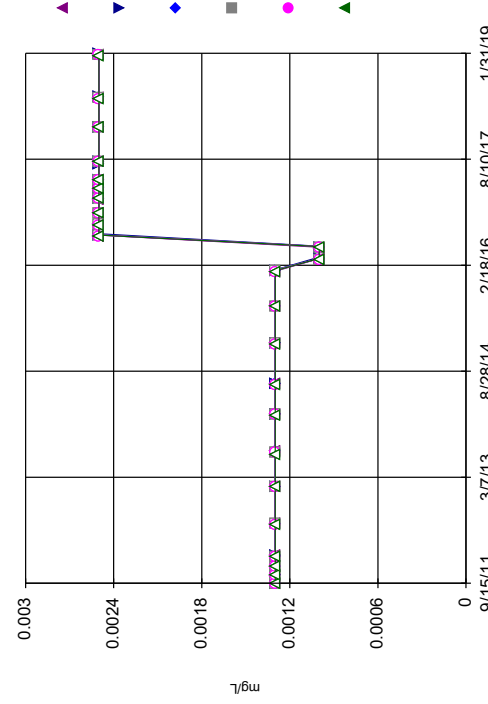
### Cadmium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

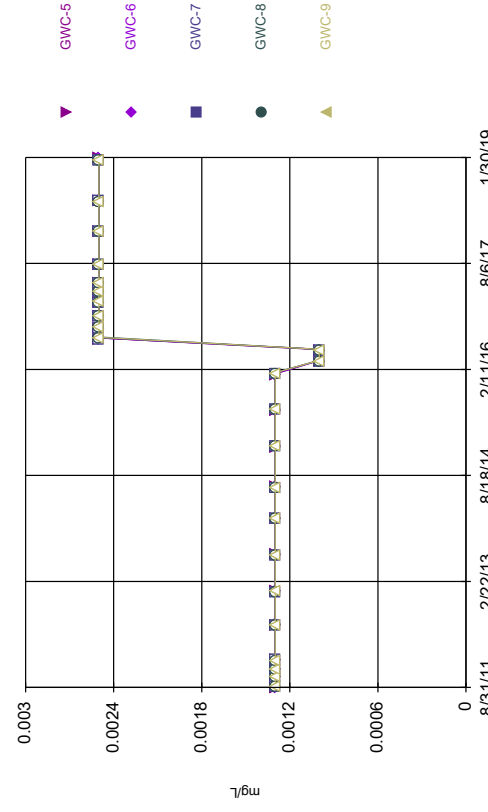
### Cadmium



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

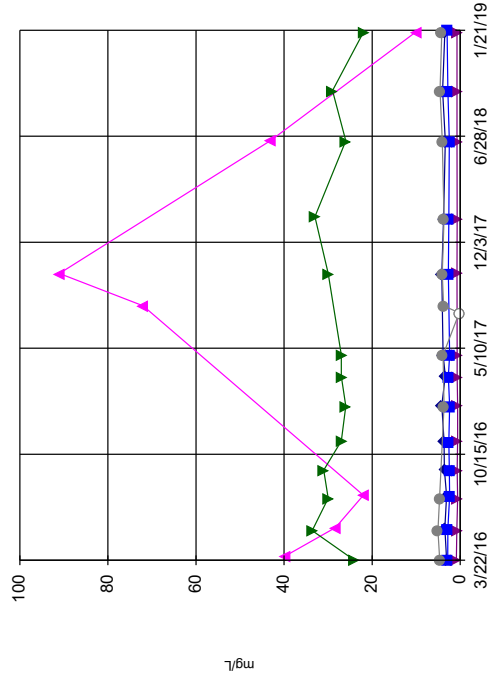
Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Cadmium

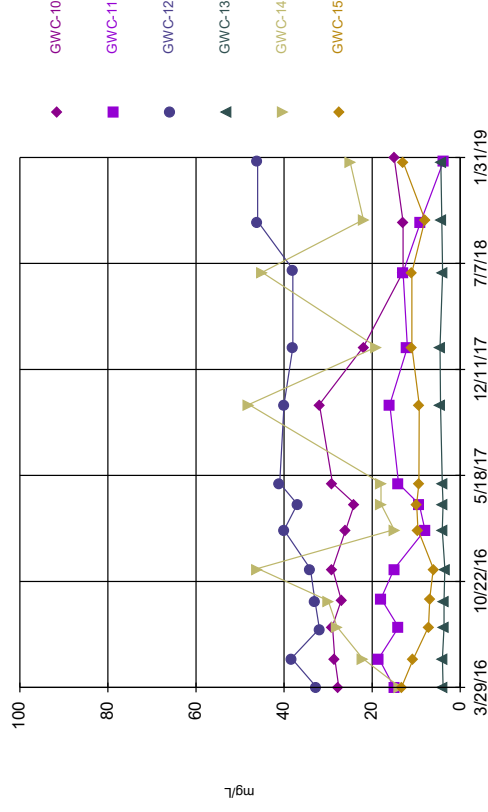


Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

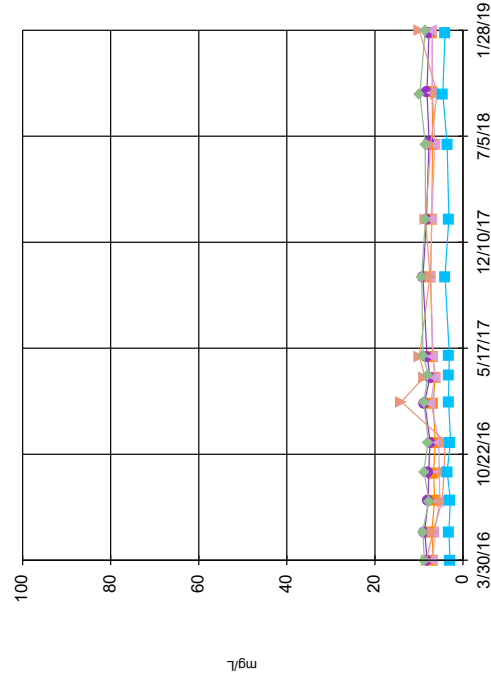
### Calcium



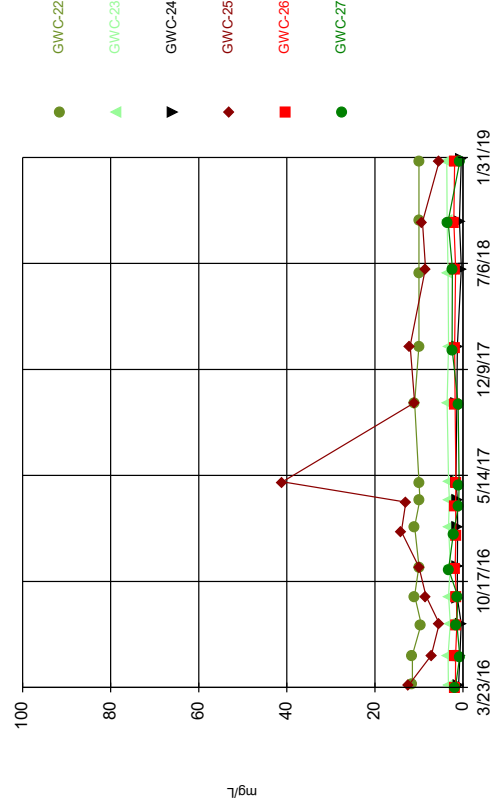
### Calcium



### Calcium

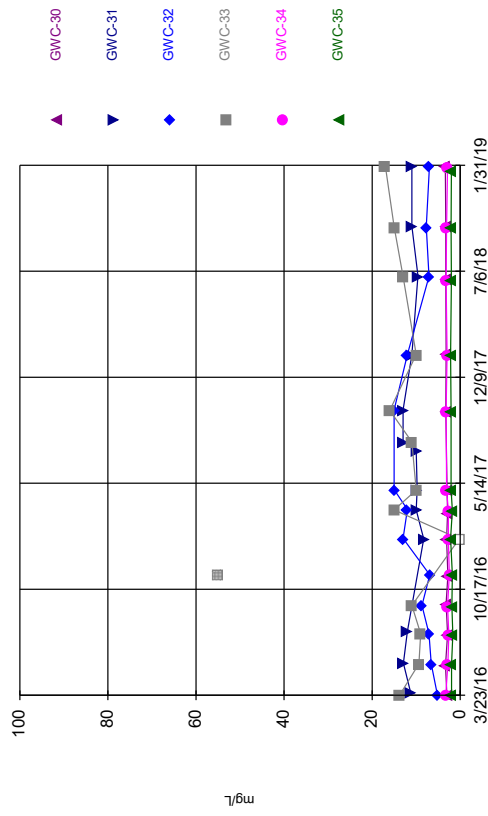


### Calcium



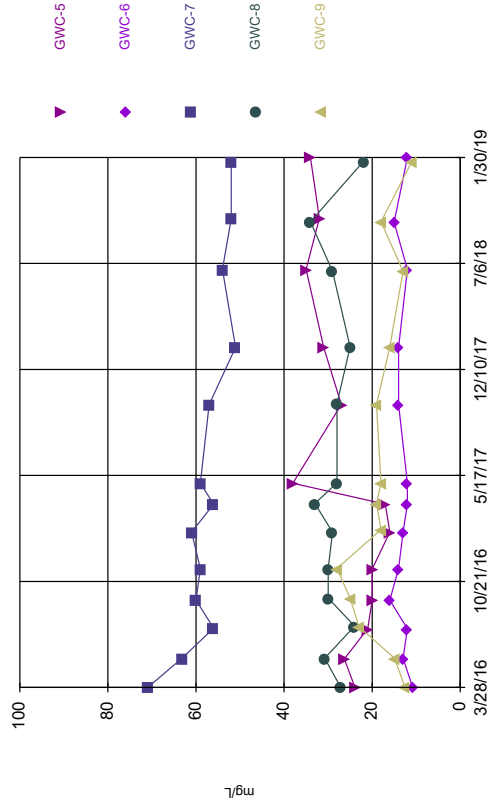


### Calcium



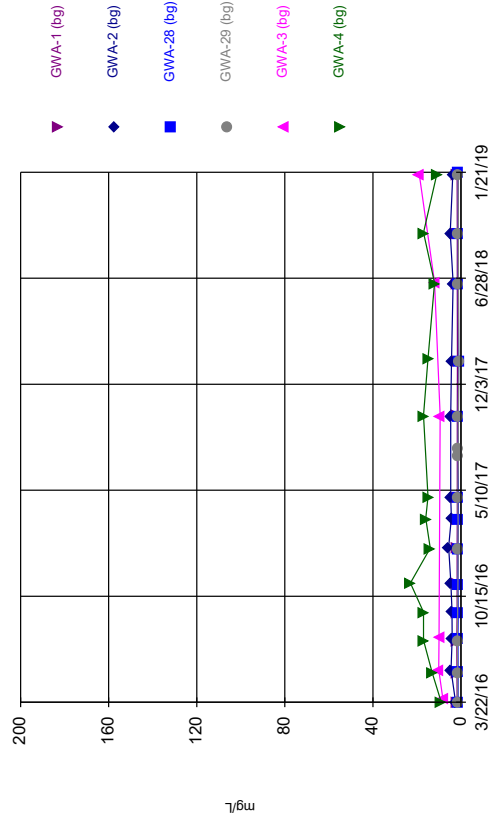
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Calcium



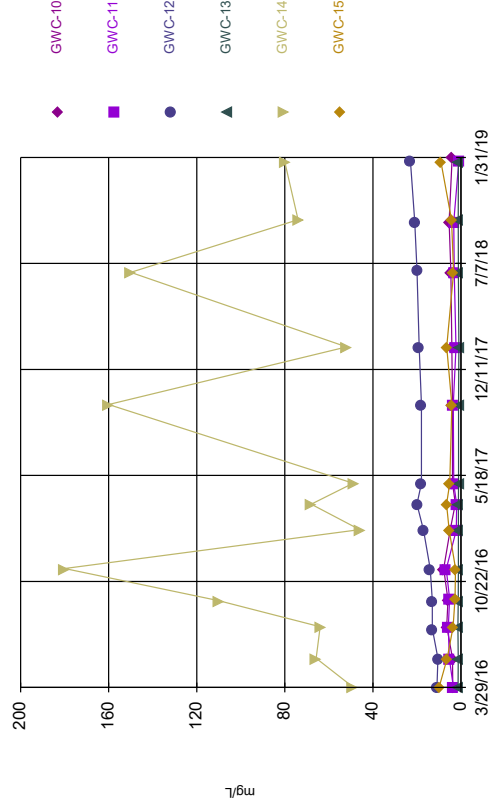
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



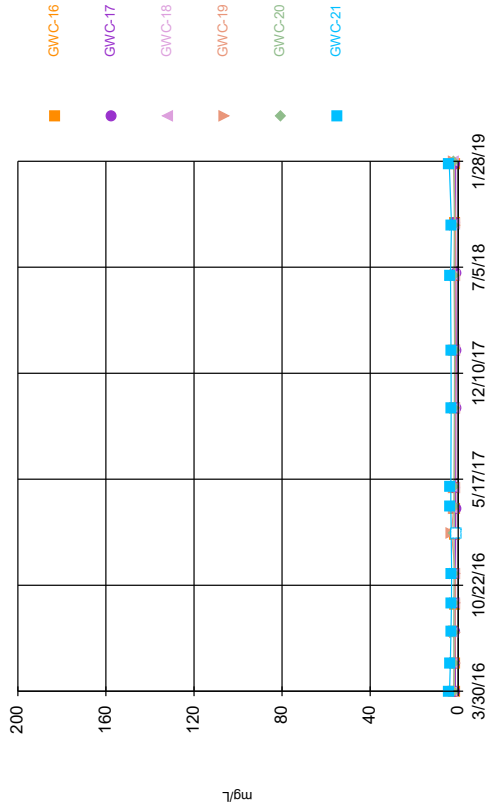
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



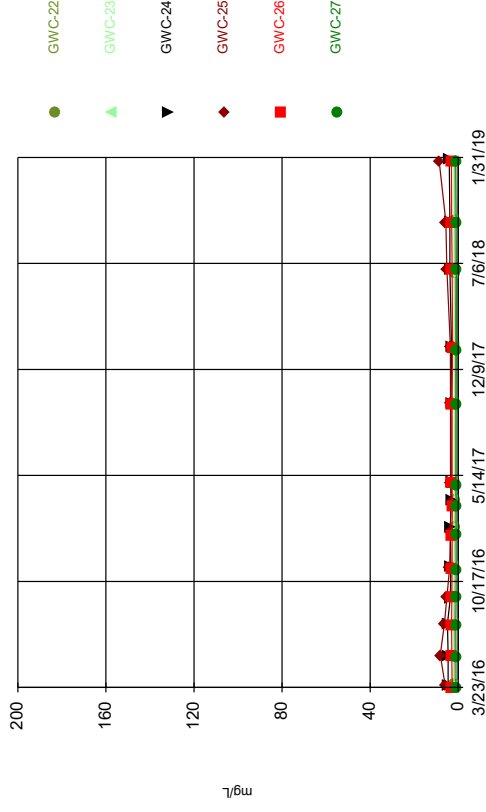
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



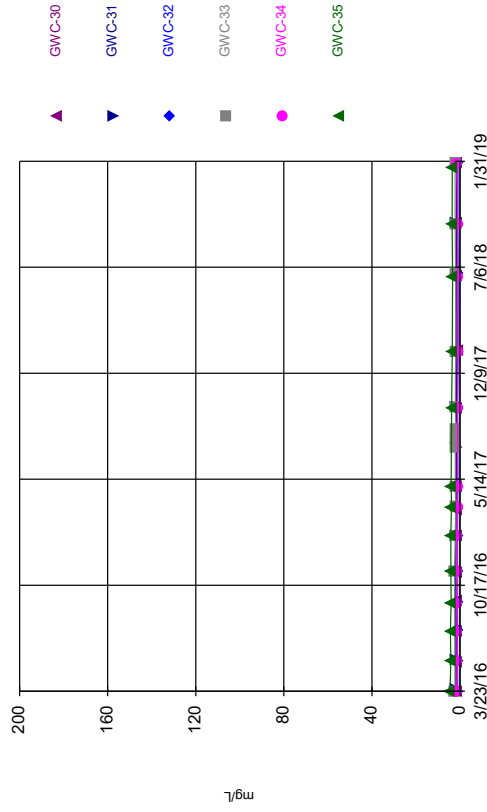
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



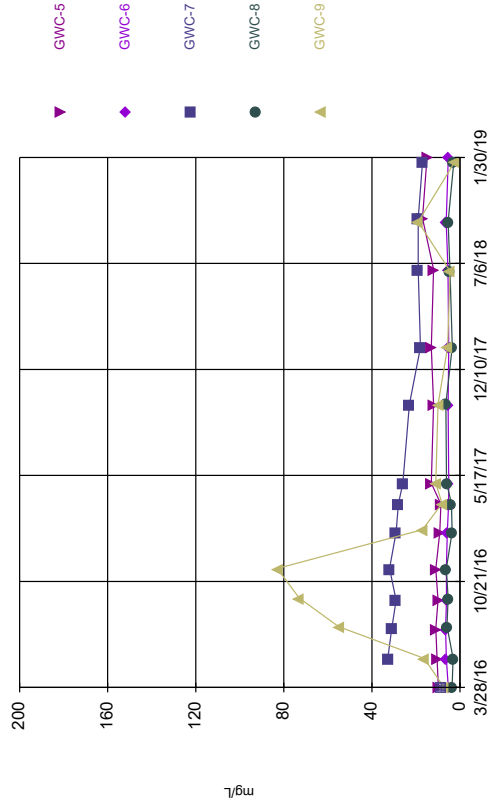
Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

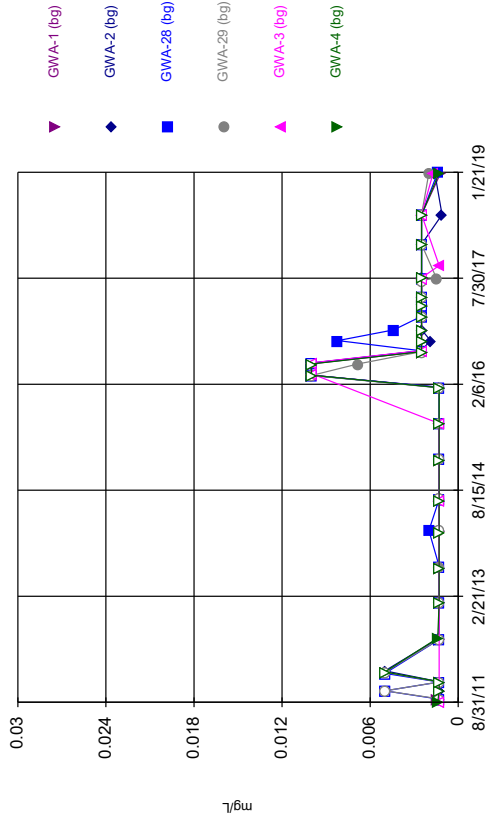
### Chloride



Time Series Analysis Run 3/14/2019 1:48 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

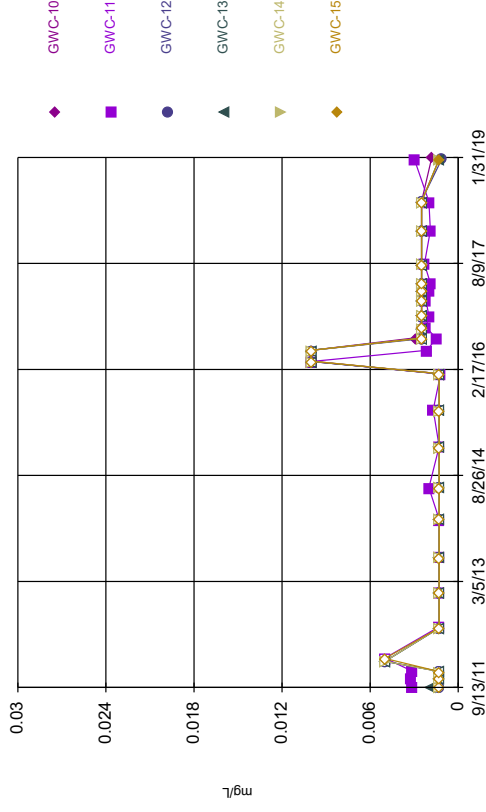
Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Chromium



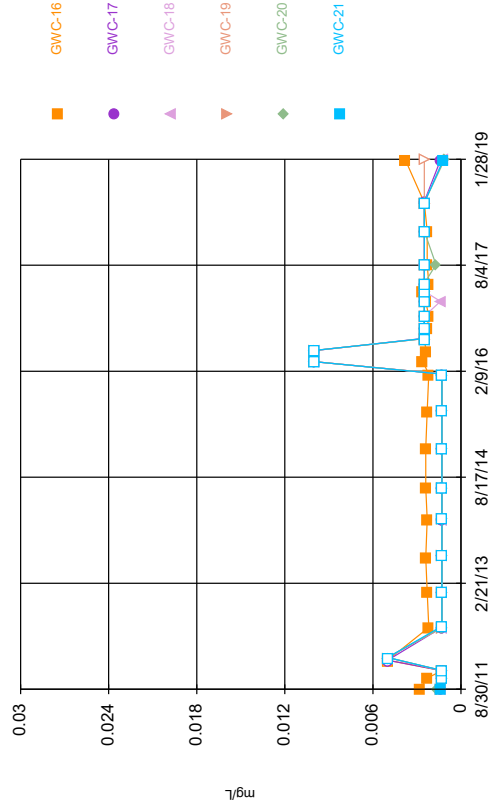
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### Chromium



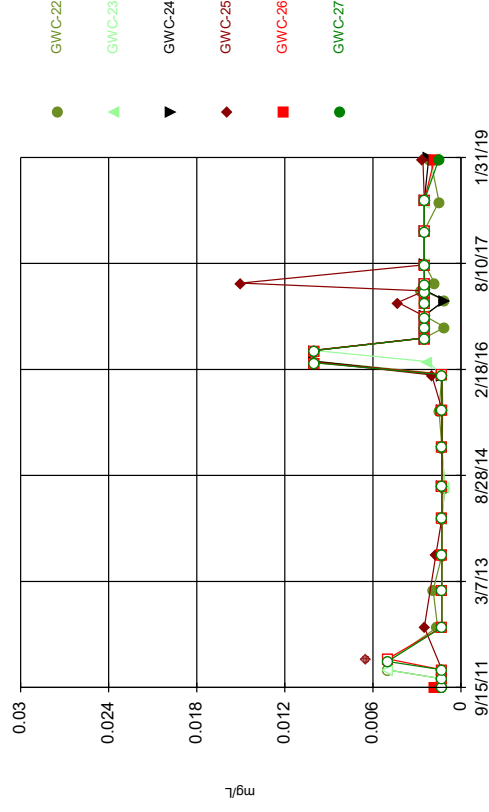
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### Chromium



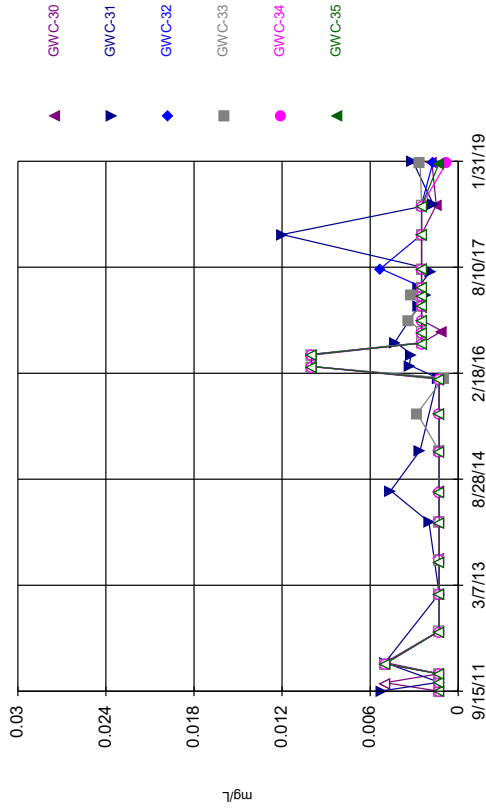
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### Chromium



Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
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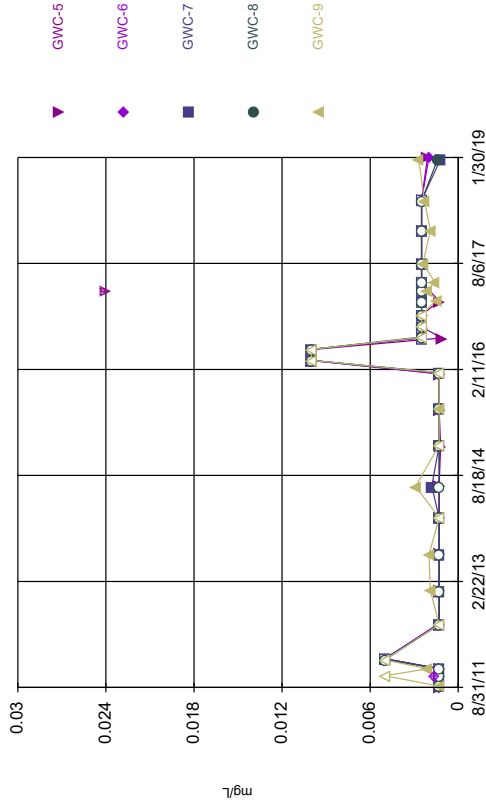
### Chromium



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

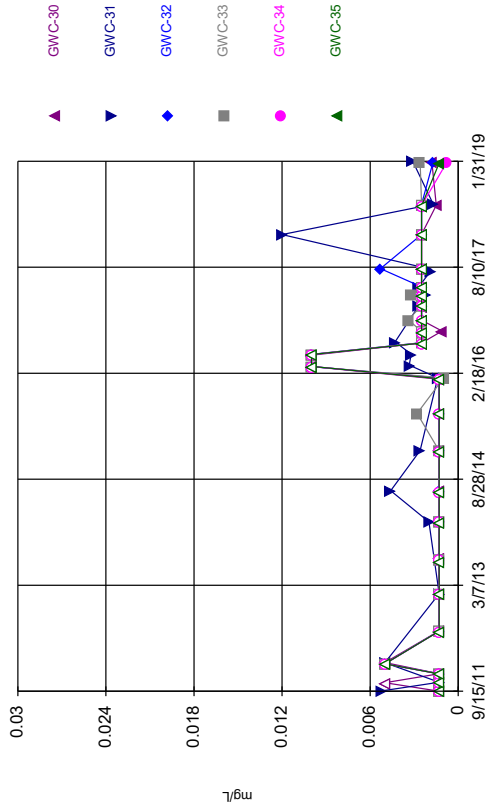
### Chromium



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

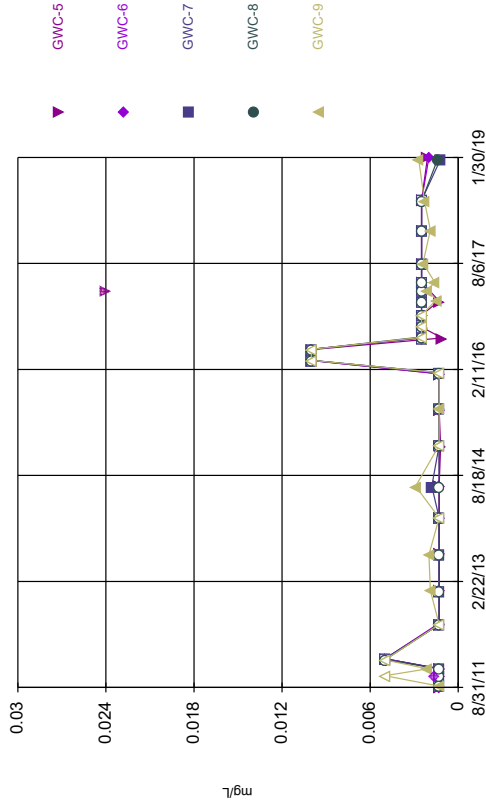
### Chromium



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

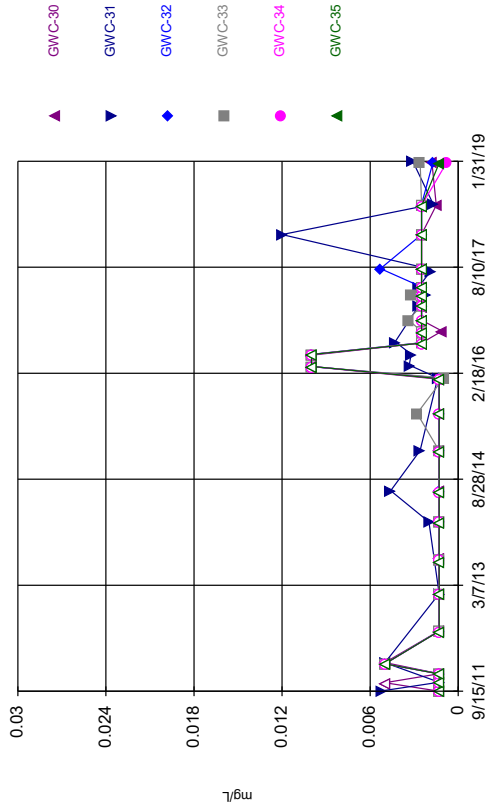
### Cobalt



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

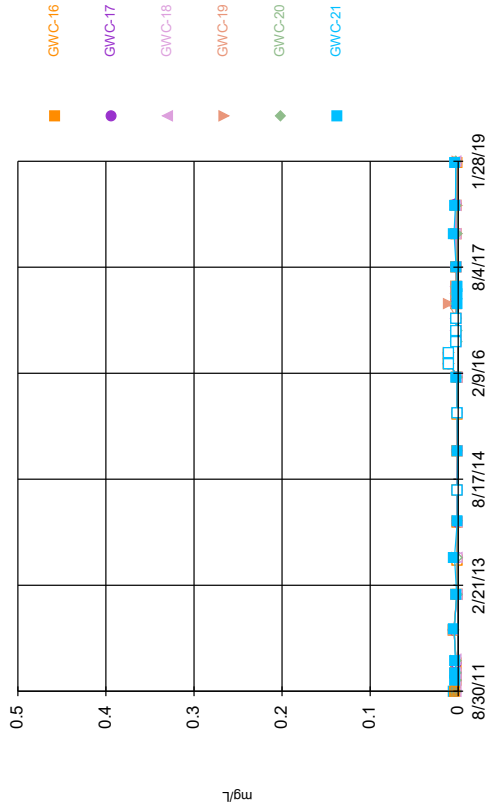
### Cobalt



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

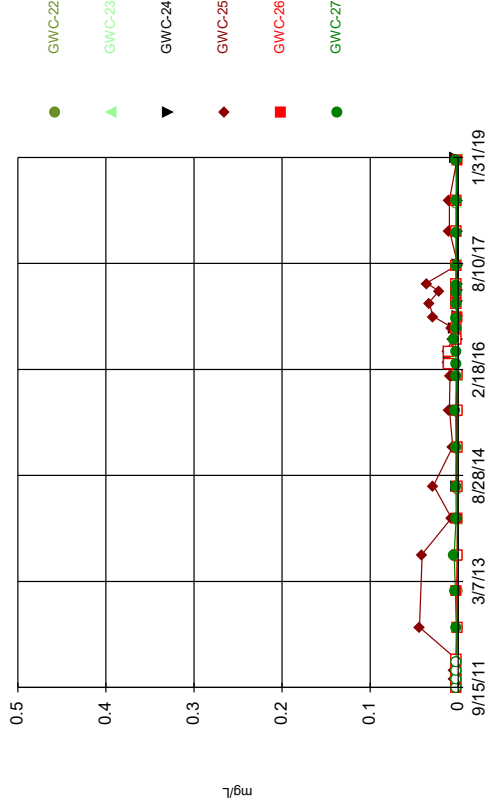
### Cobalt



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
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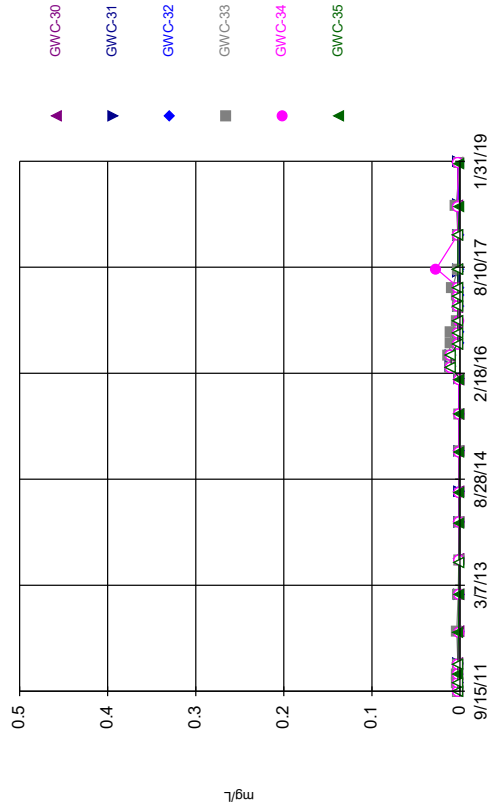
### Cobalt



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
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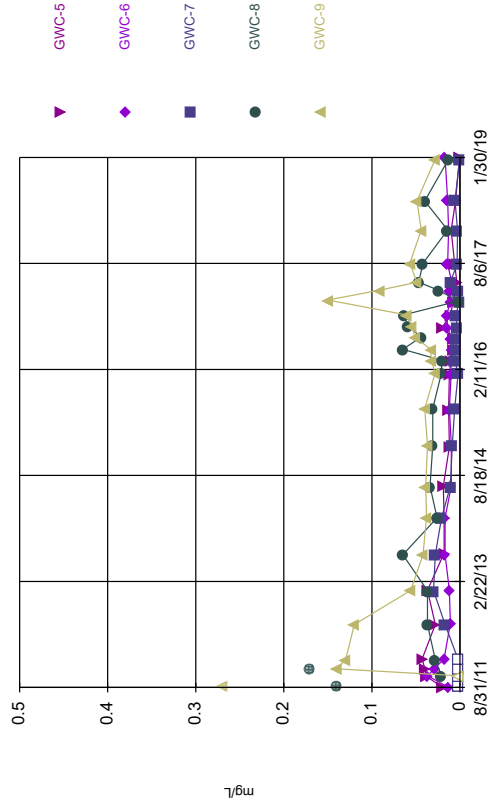
### Cobalt



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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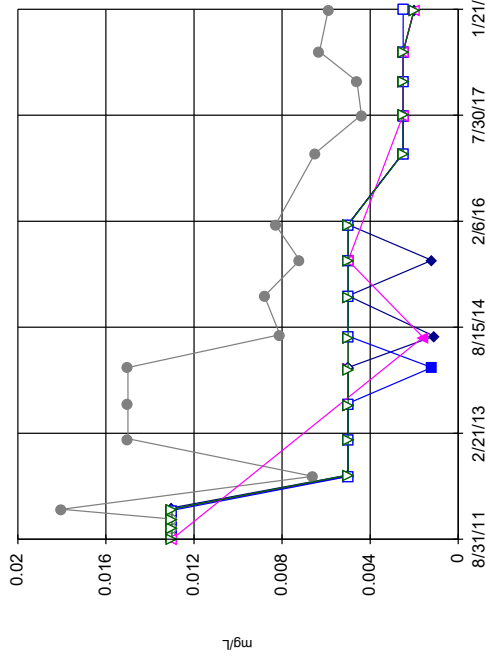
### Cobalt



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Copper

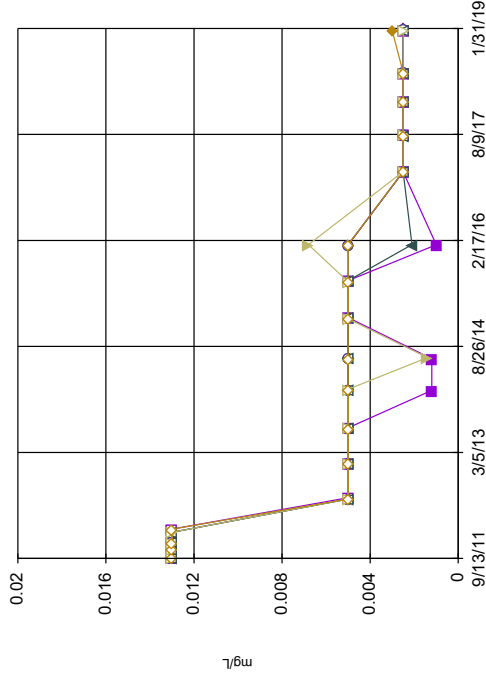


Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

- GWA-1 (bg)
- GWA-2 (bg)
- GWA-28 (bg)
- GWA-29 (bg)
- GWA-3 (bg)
- GWA-4 (bg)

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Copper

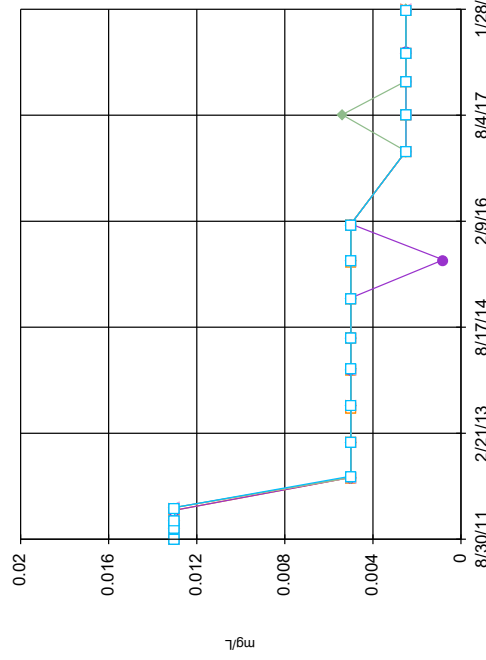


Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

- GWC-10
- GWC-11
- GWC-12
- GWC-13
- GWC-14
- GWC-15

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Copper

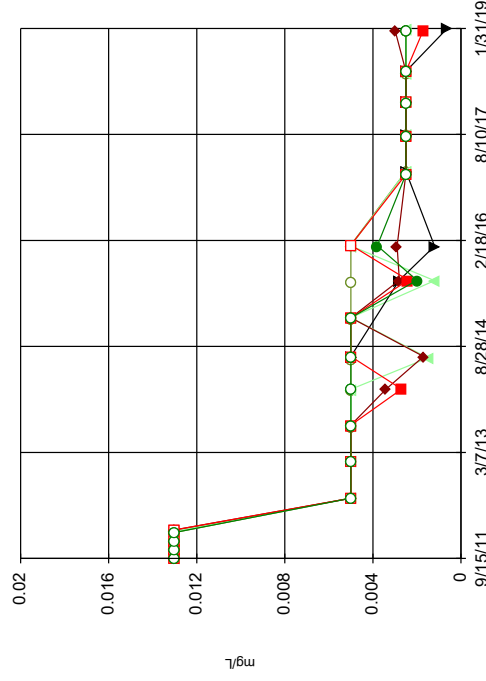


Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

- GWC-16
- GWC-17
- GWC-18
- GWC-19
- GWC-20
- GWC-21

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Copper

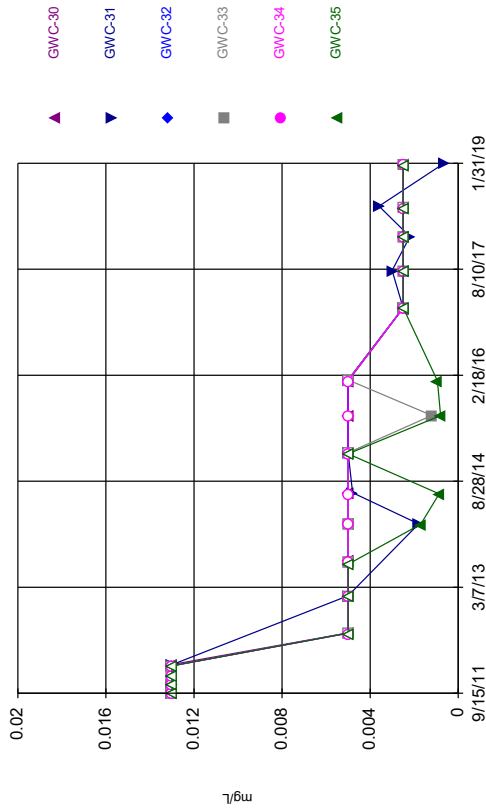


Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

- GWC-22
- GWC-23
- GWC-24
- GWC-25
- GWC-26
- GWC-27

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

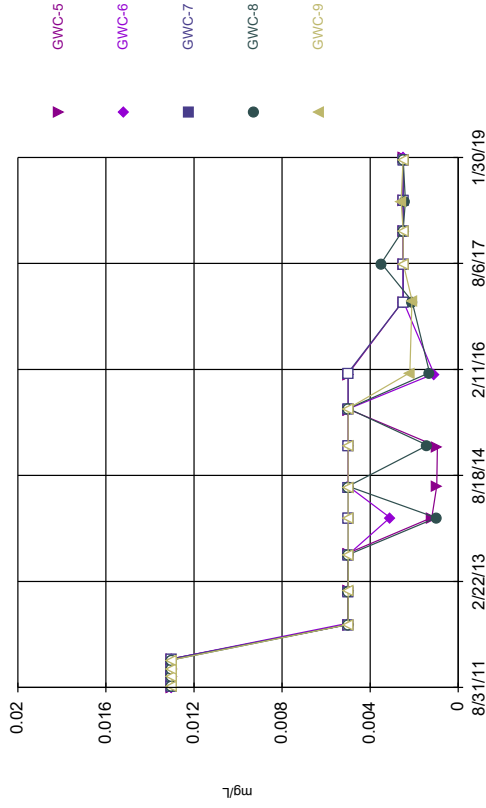
### Copper



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
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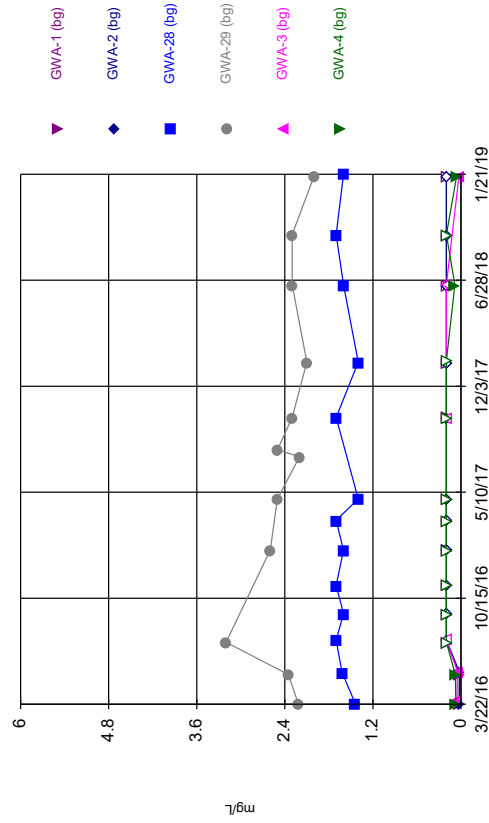
### Copper



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
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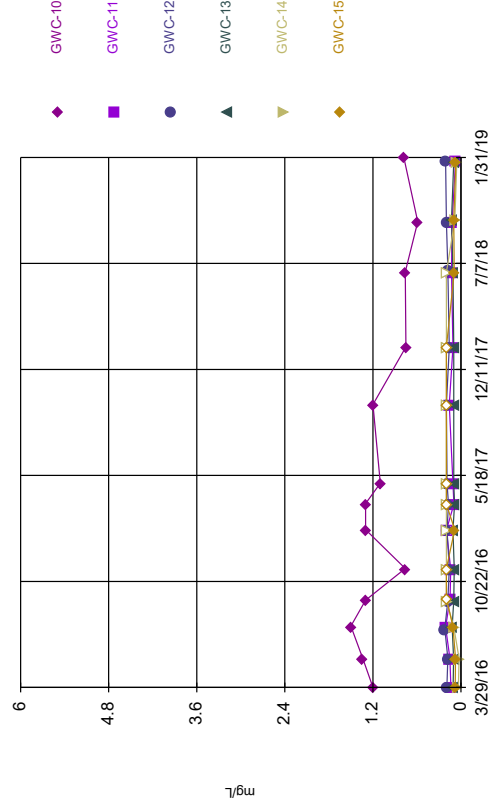
### Fluoride



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

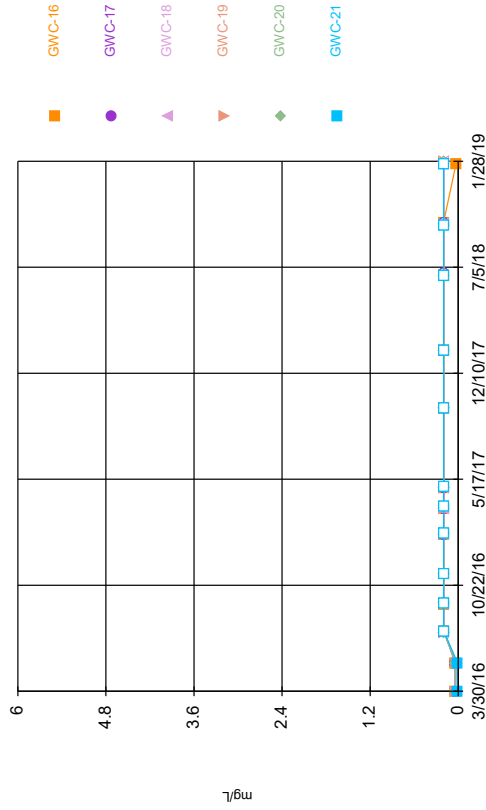
### Fluoride



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

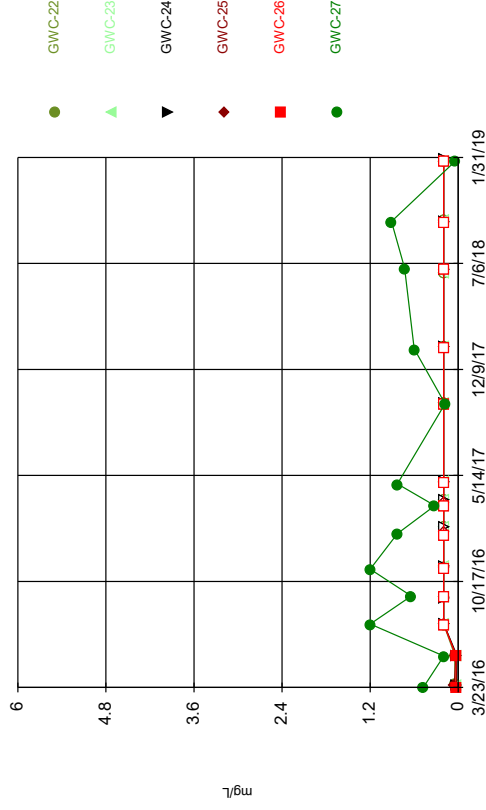
### Fluoride



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

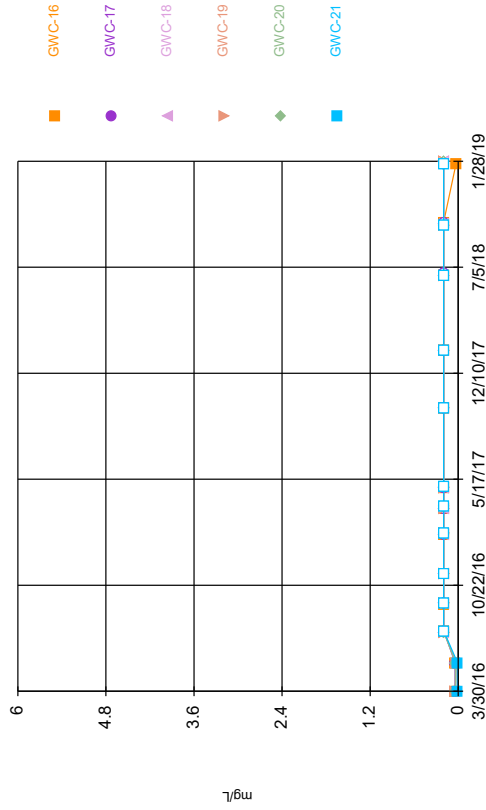
### Fluoride



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

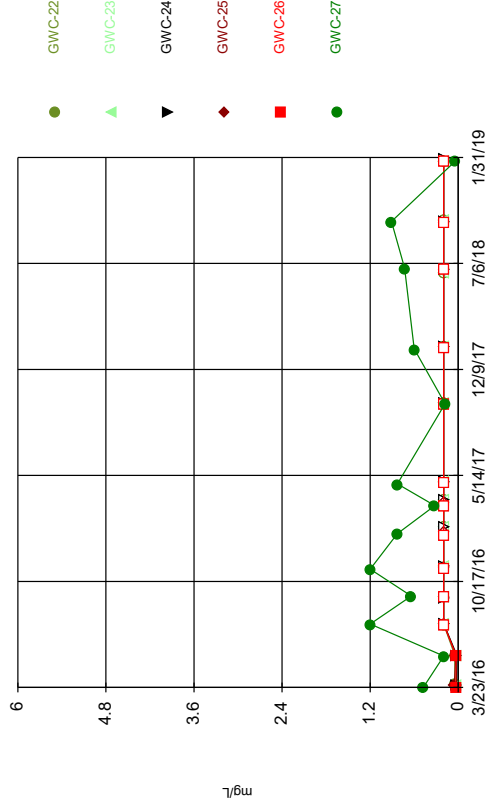
### Fluoride



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Fluoride

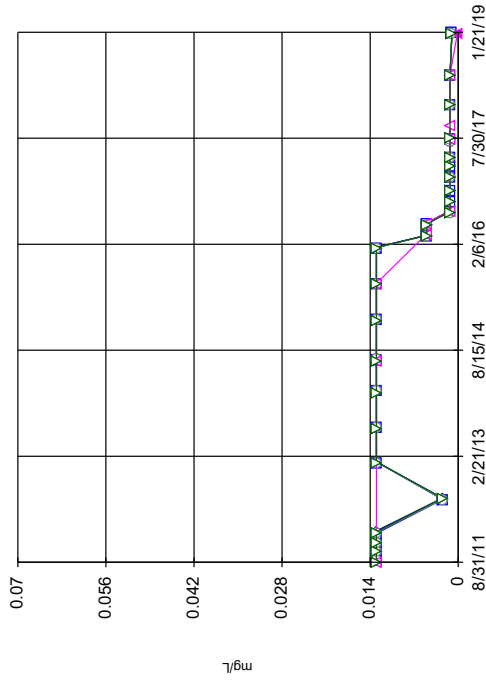


Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

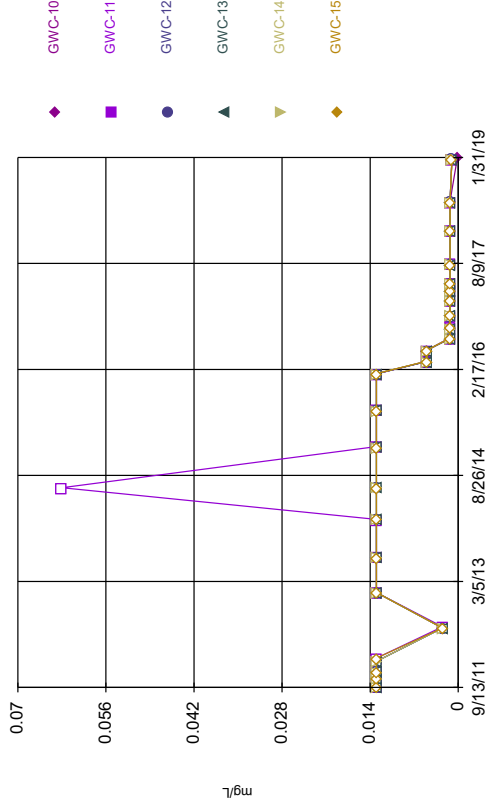
Lead



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

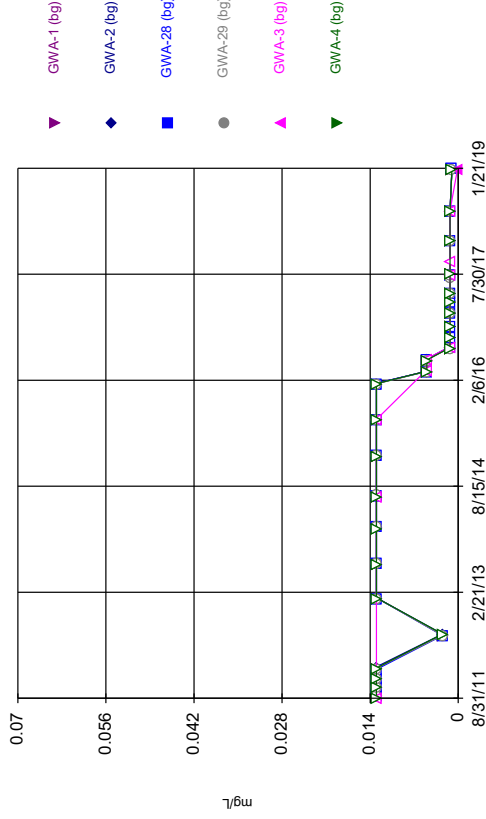
Lead



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

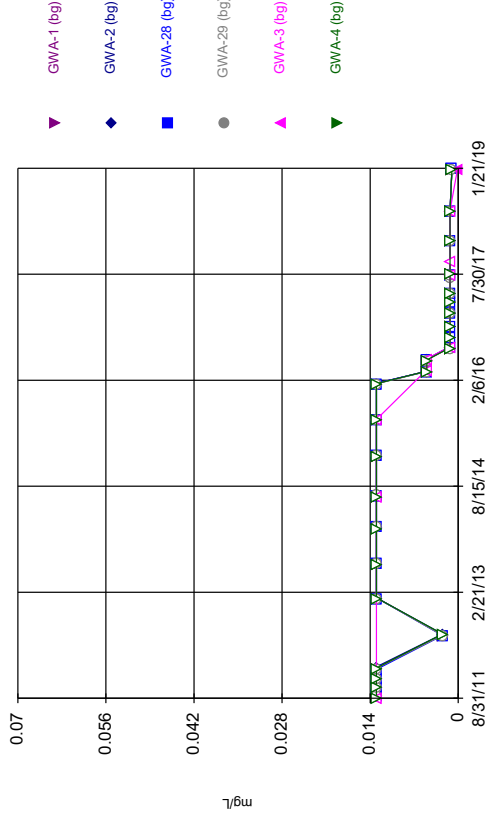
Lead



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

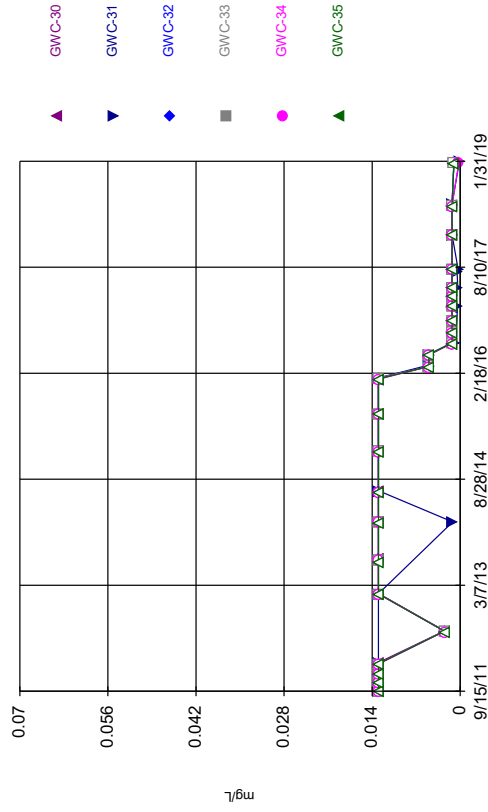
Lead



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
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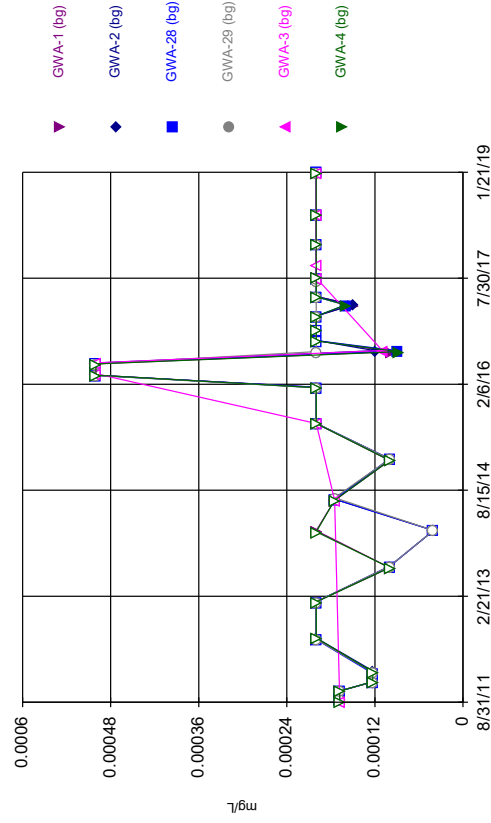
### Lead



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Hollow symbols indicate censored values.

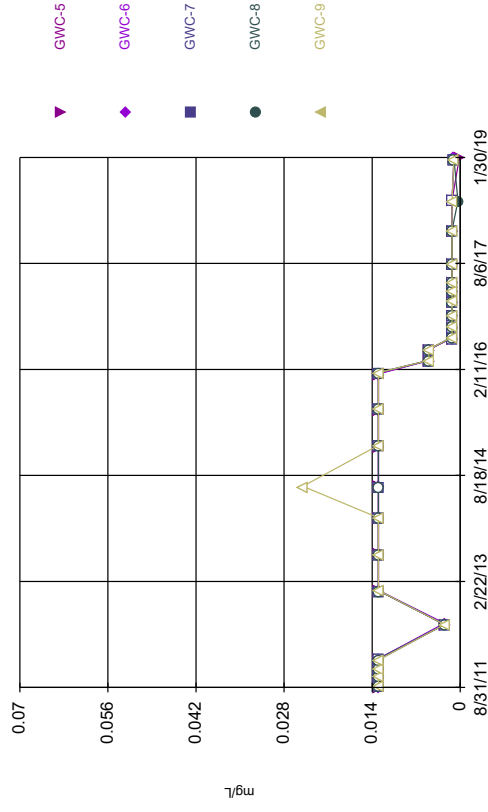
### Mercury



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

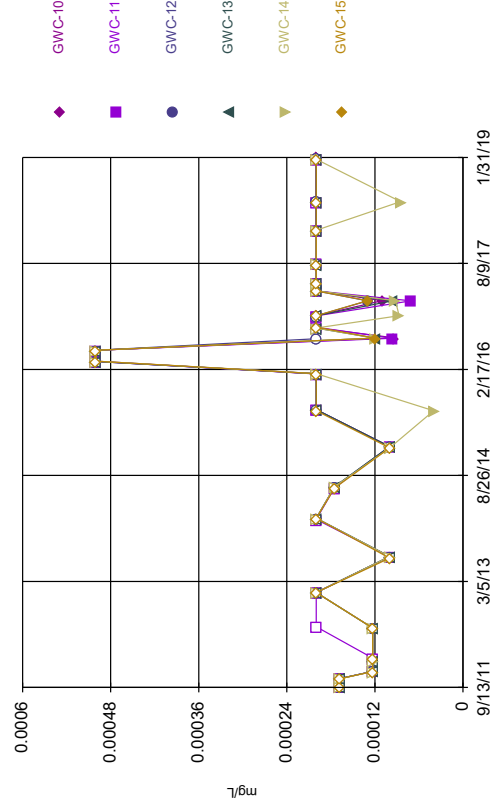
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Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

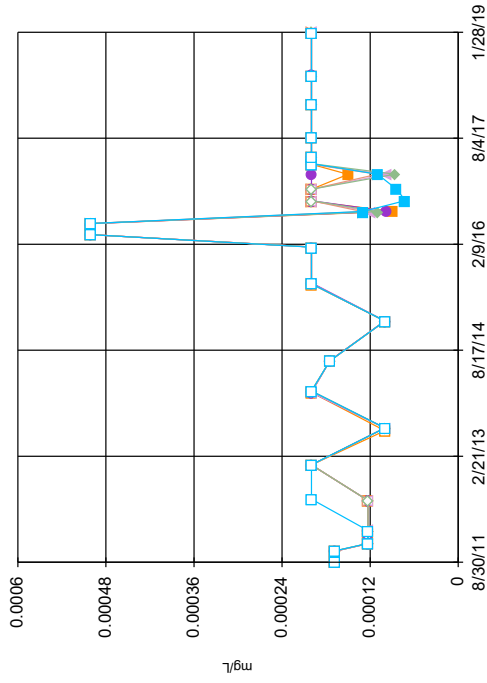
### Mercury



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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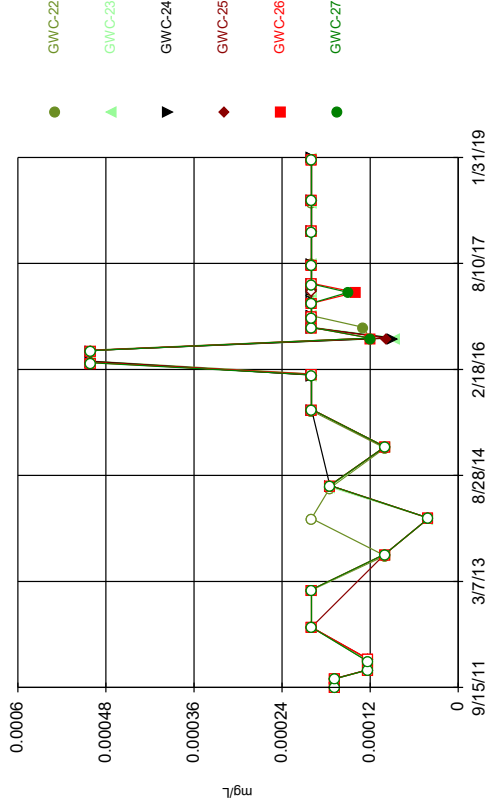
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Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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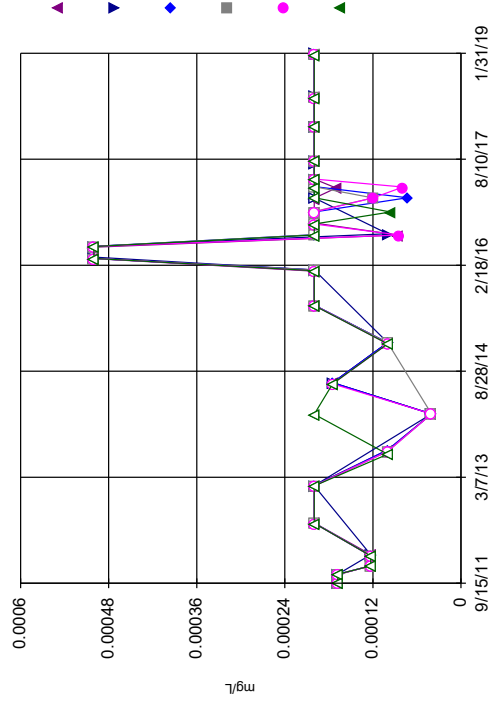
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Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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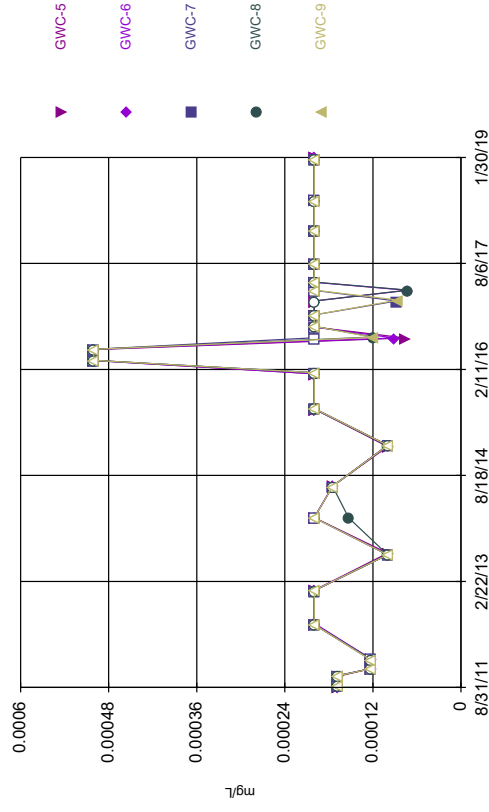
### Mercury



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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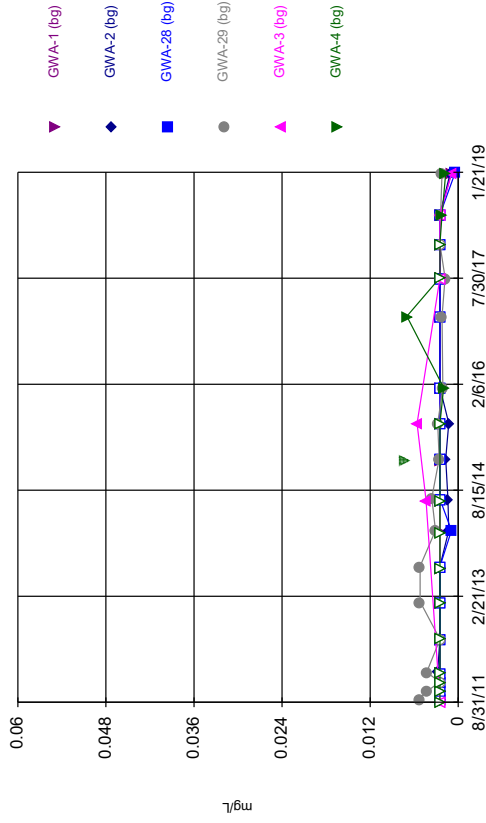
### Mercury



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Hollow symbols indicate censored values.

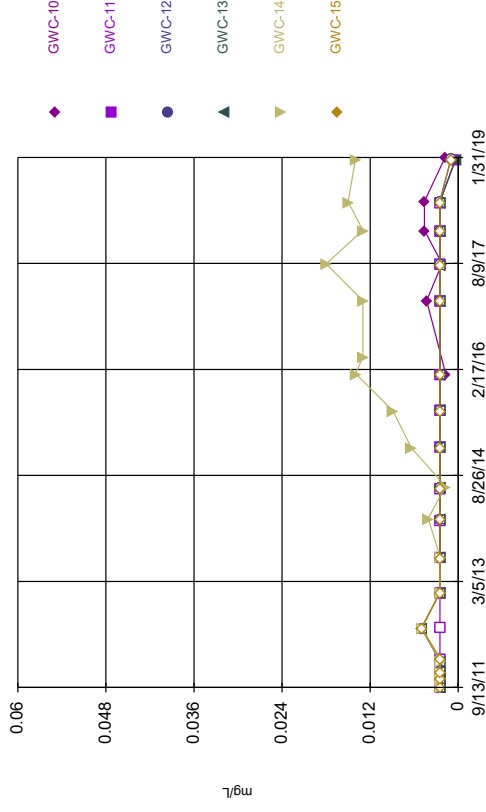
### Nickel



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Hollow symbols indicate censored values.

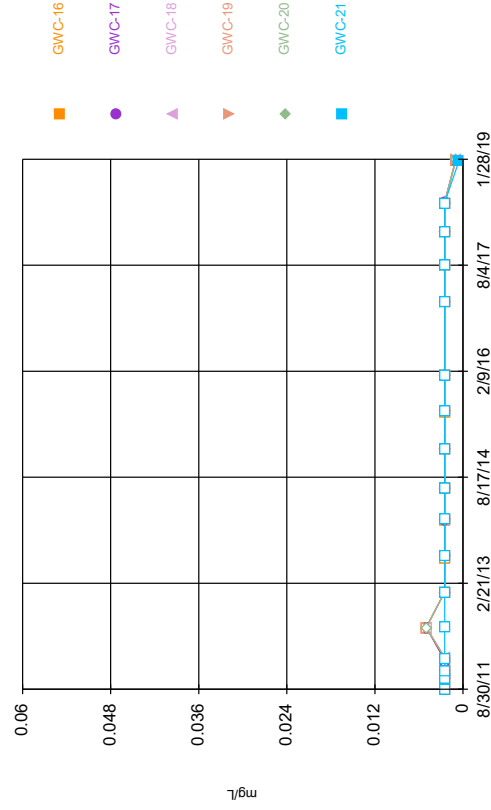
### Nickel



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Hollow symbols indicate censored values.

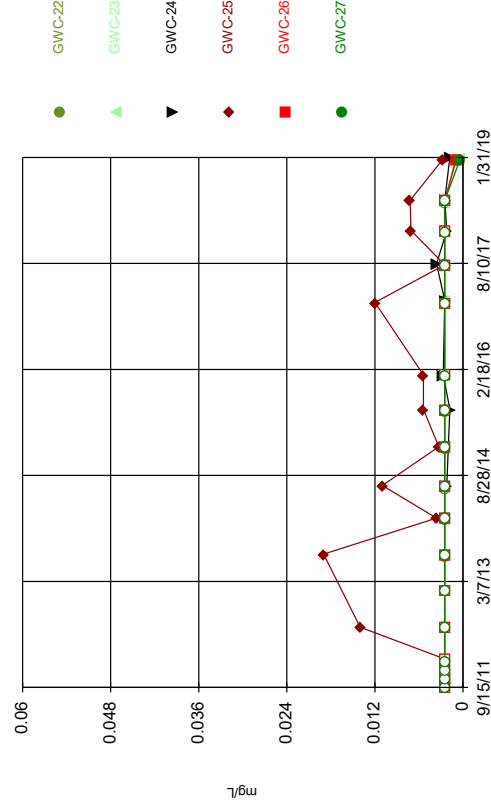
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Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

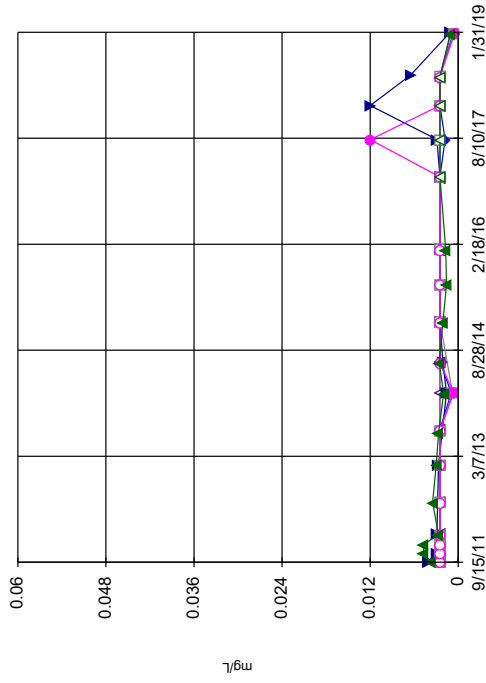
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### Nickel



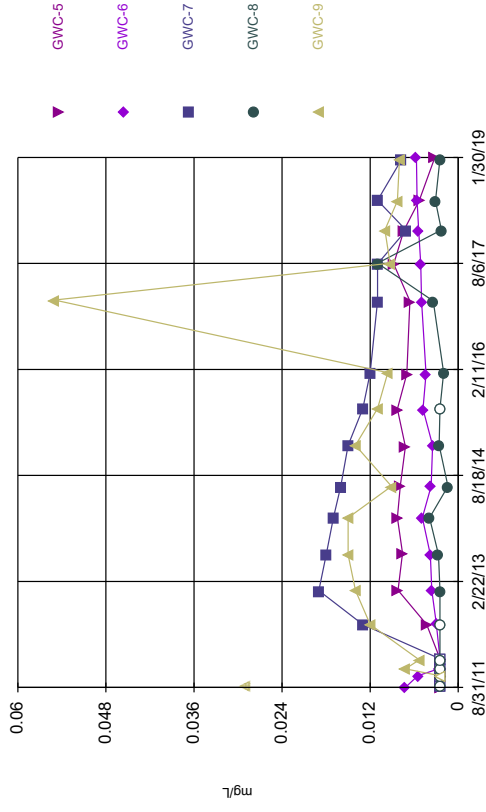
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Nickel



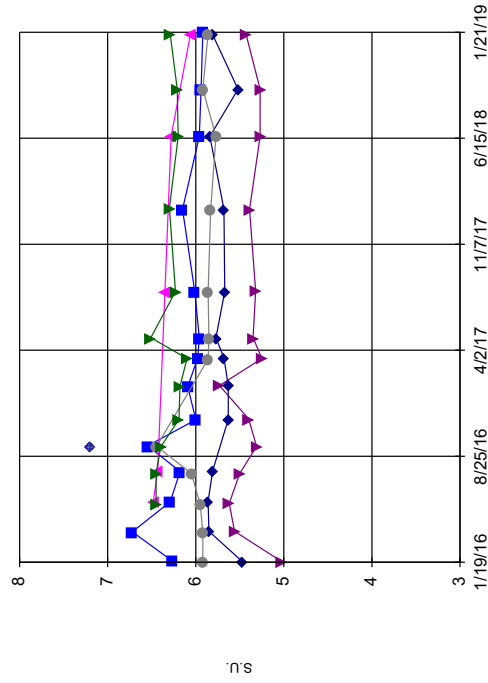
Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Nickel



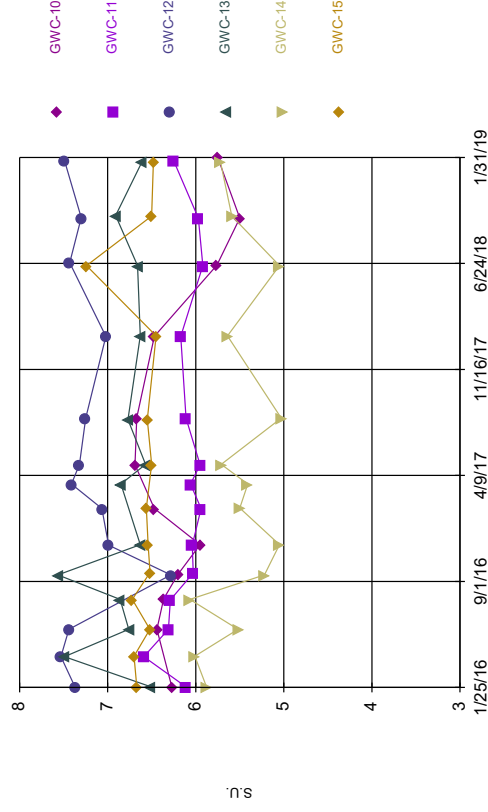
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### pH

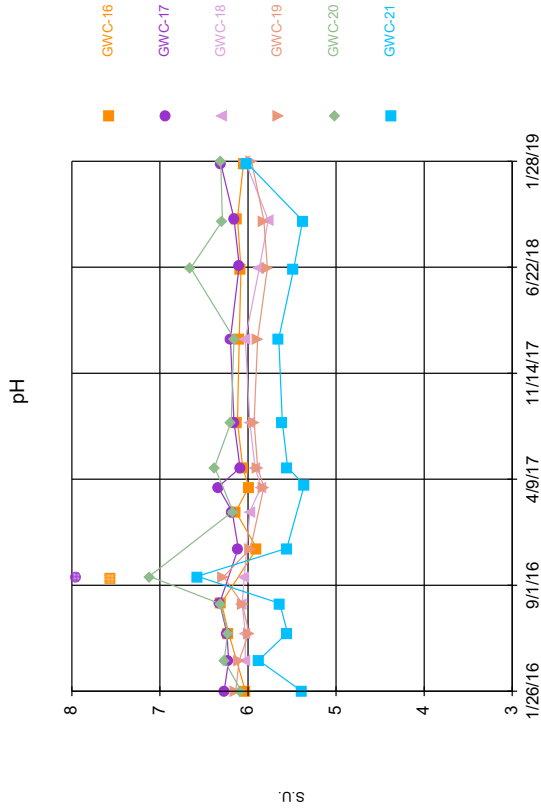


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Plant Wansley Client: Southern Company Data: Wansley Landfill

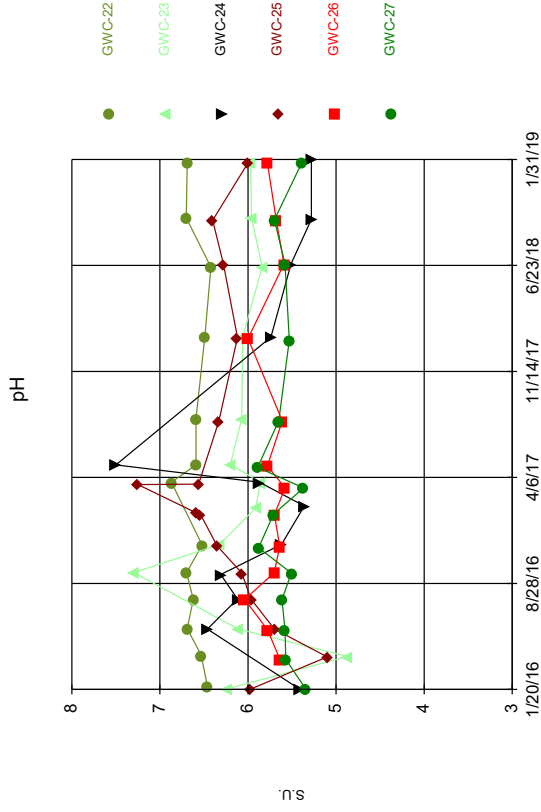
### pH



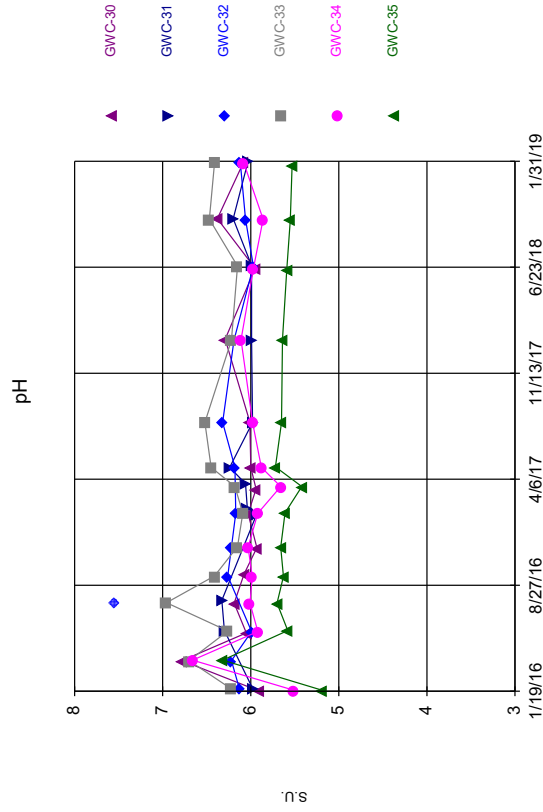
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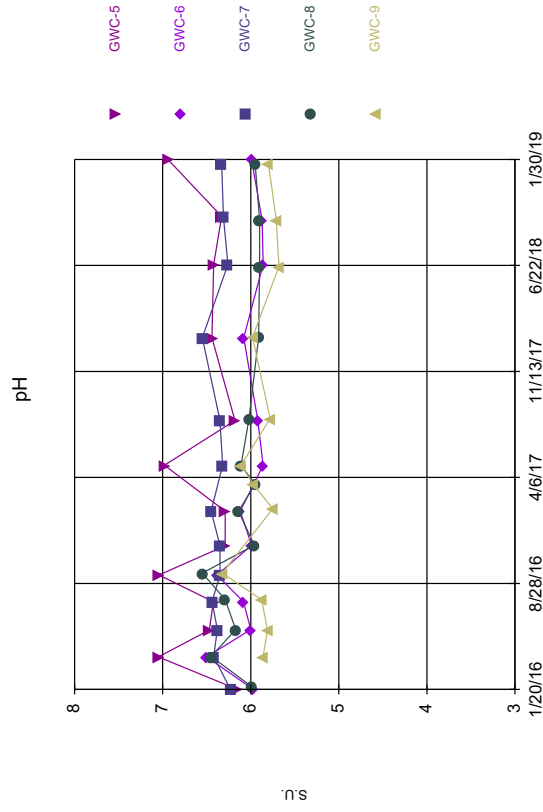
Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
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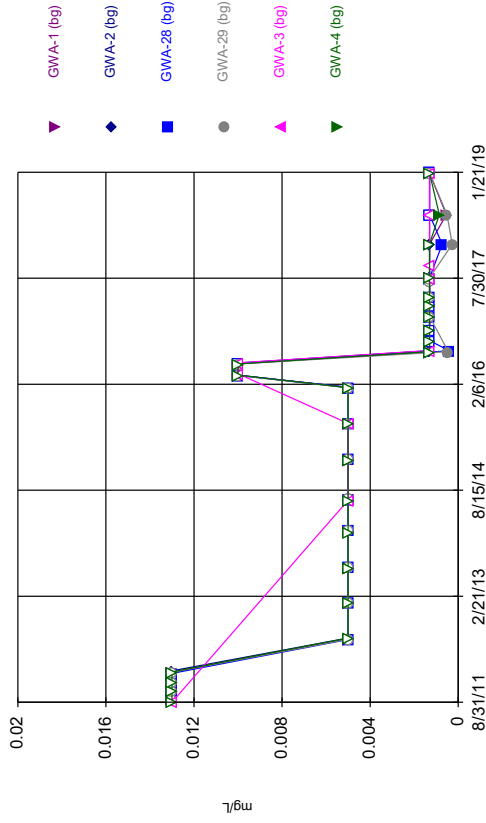
Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

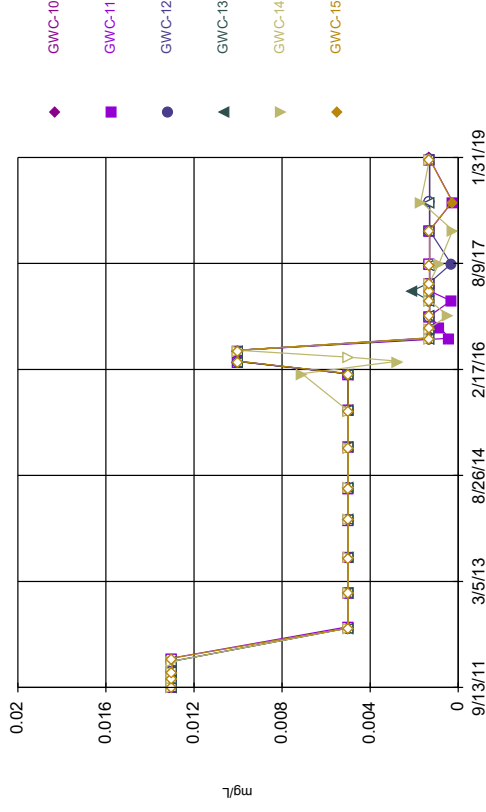
### Selenium



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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Hollow symbols indicate censored values.

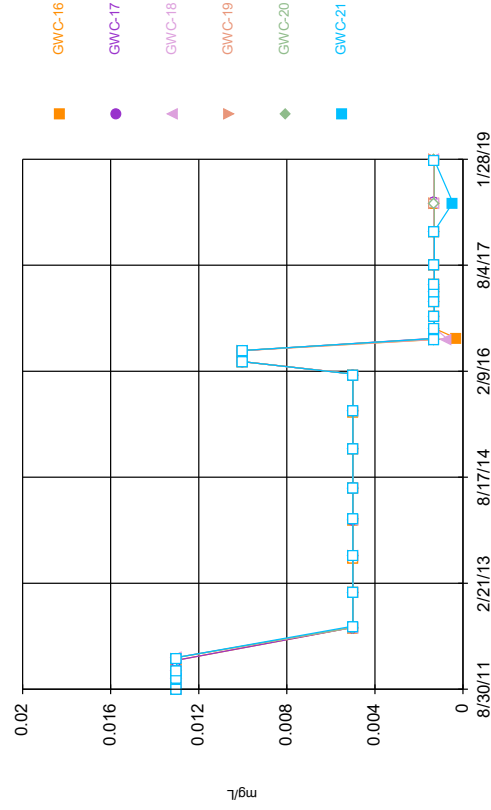
### Selenium



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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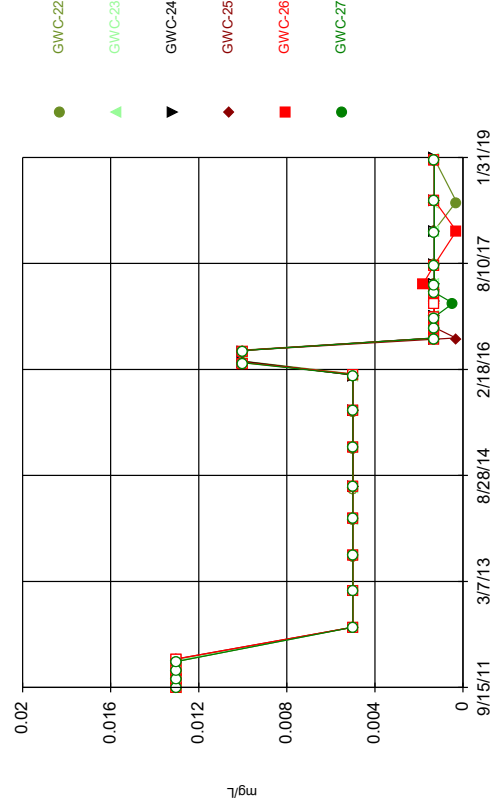
### Selenium



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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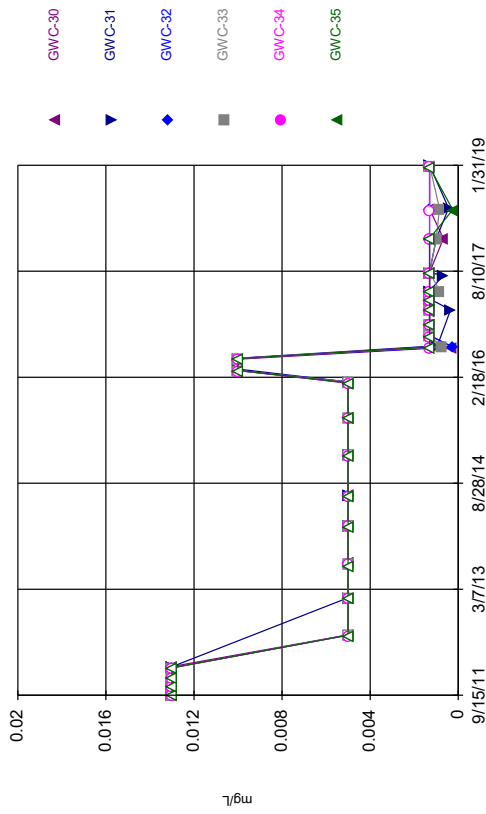
### Selenium



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
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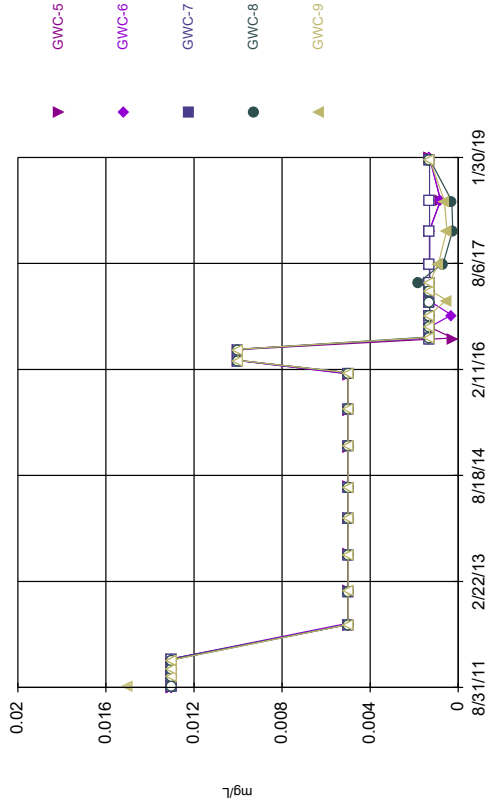
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Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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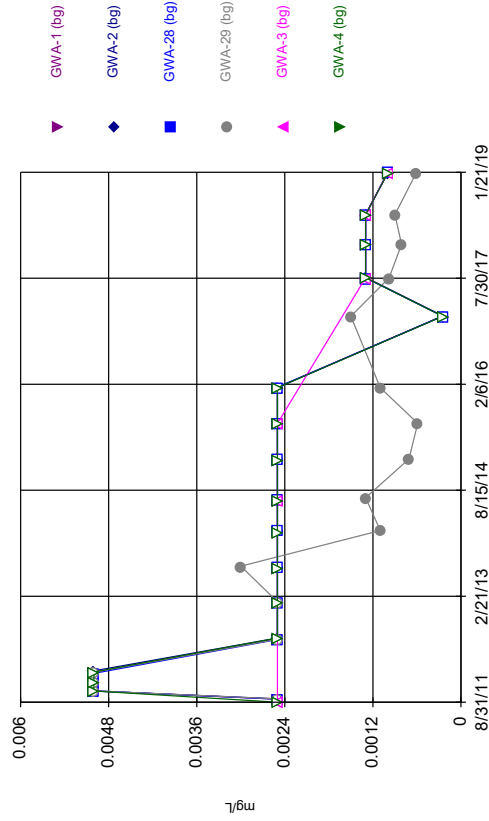
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Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
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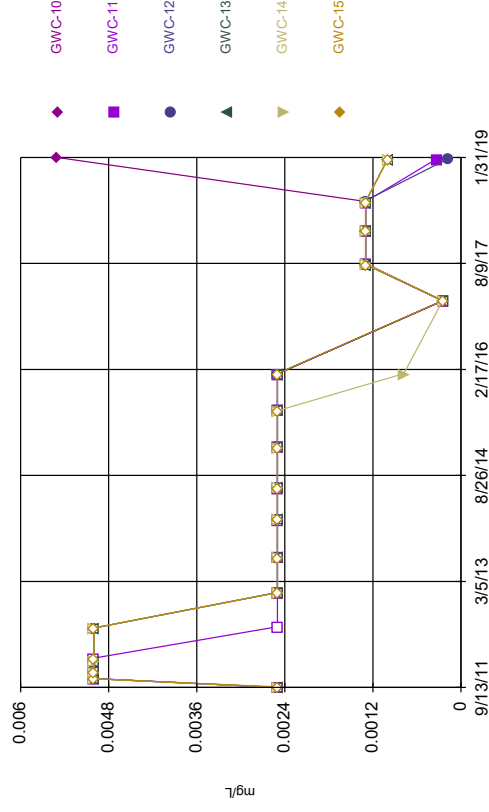
### Silver



Time Series Analysis Run 3/14/2019 1:49 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Silver

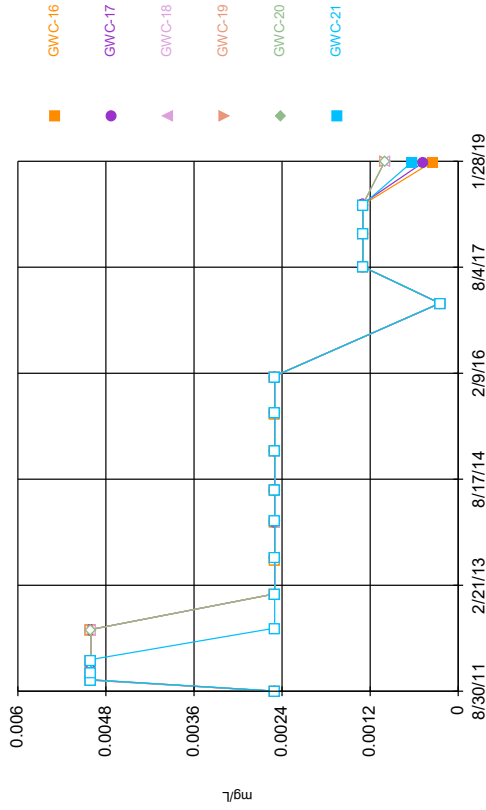


Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill



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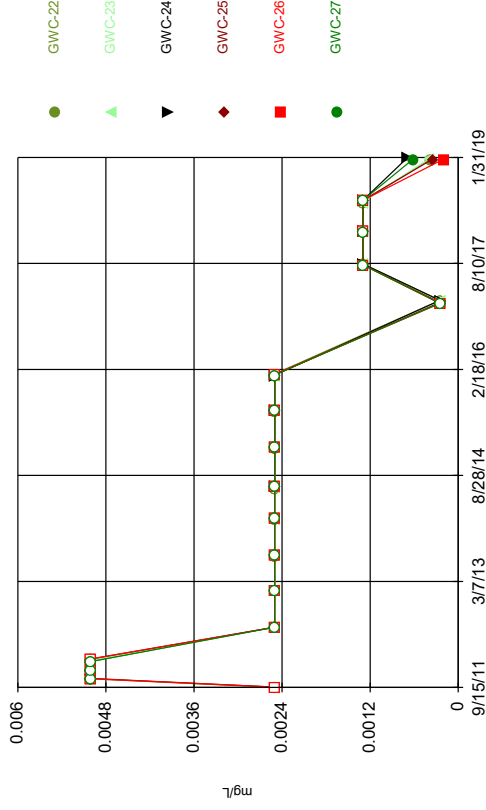
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Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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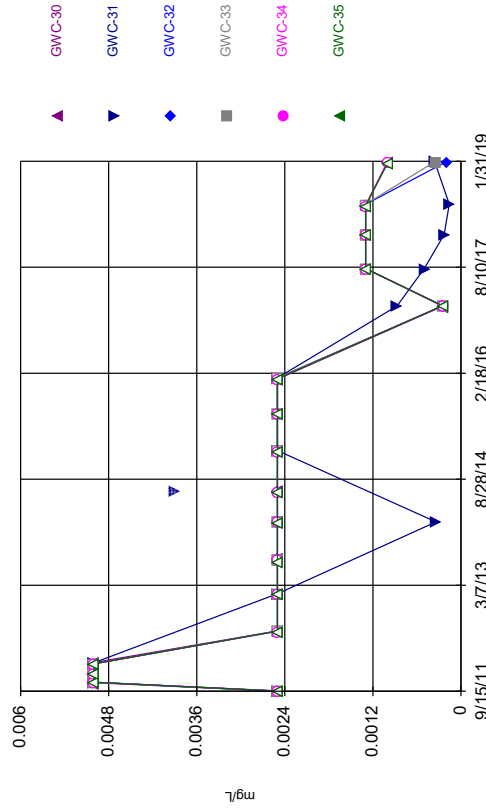
### Silver



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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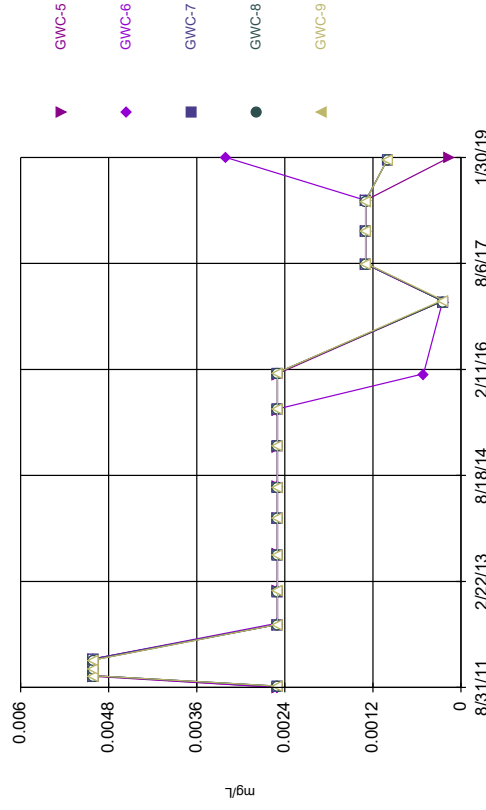
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Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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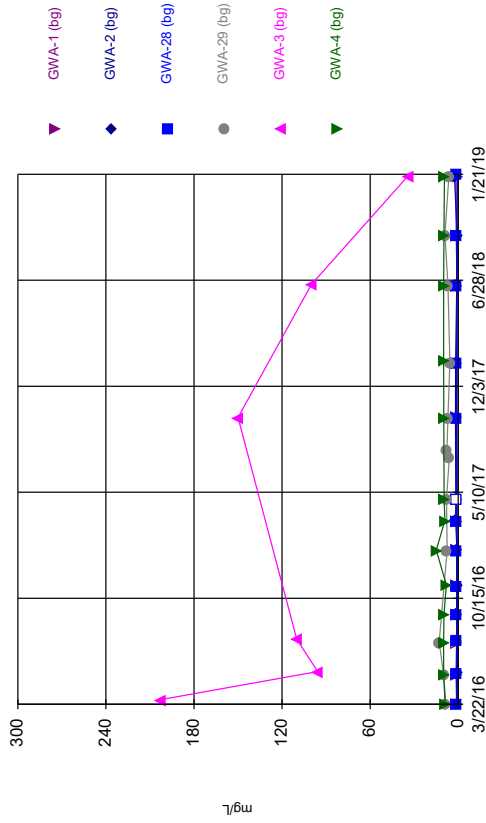
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Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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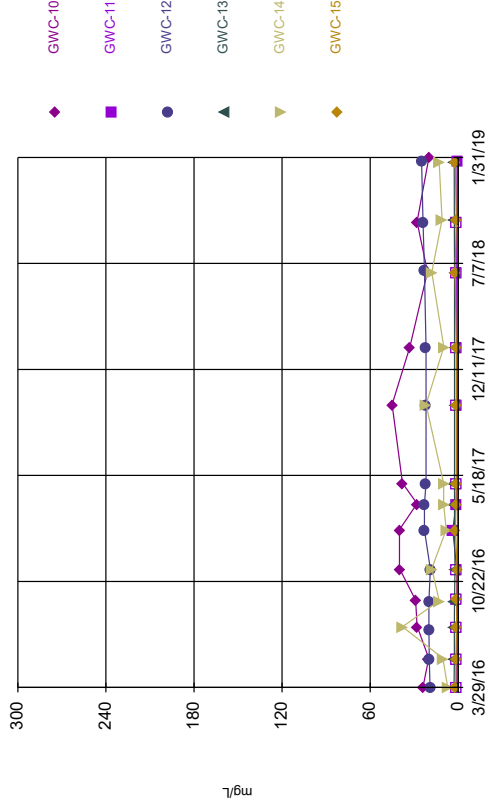
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Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
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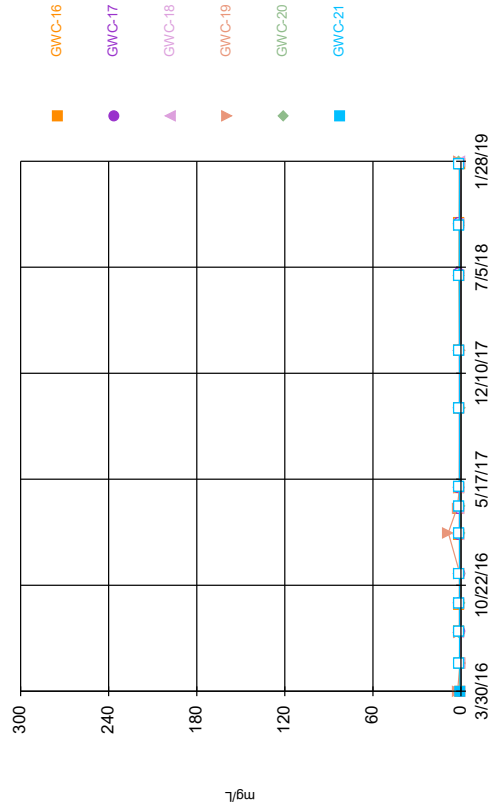
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Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
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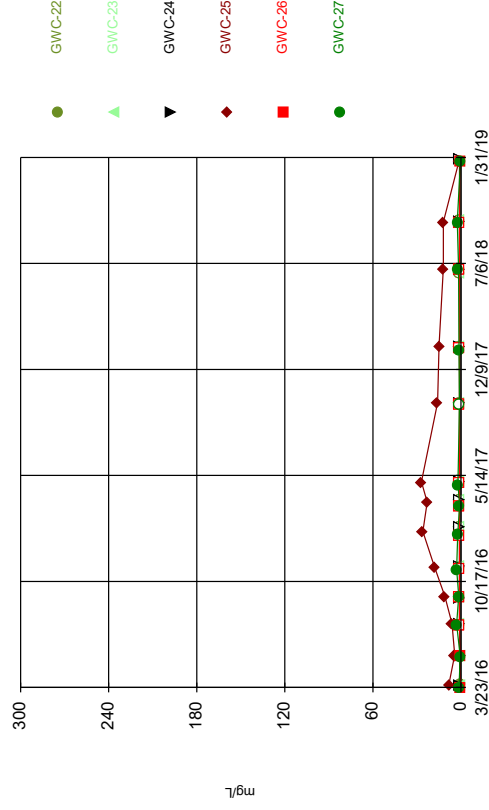
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Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
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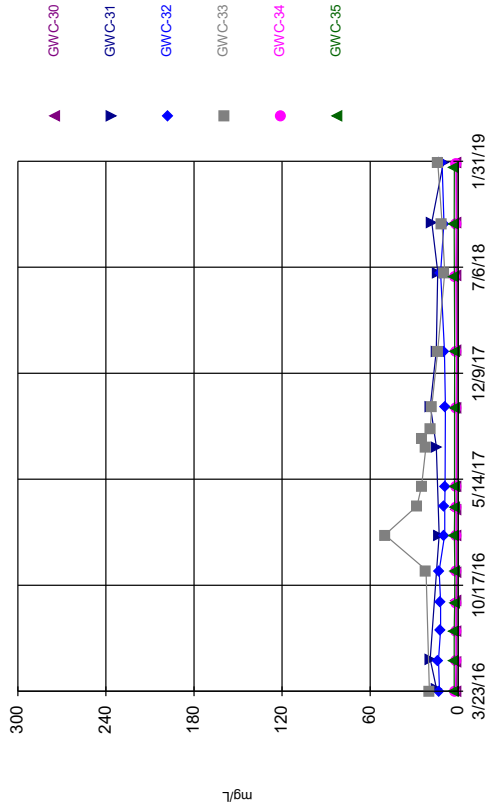
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### Sulfate



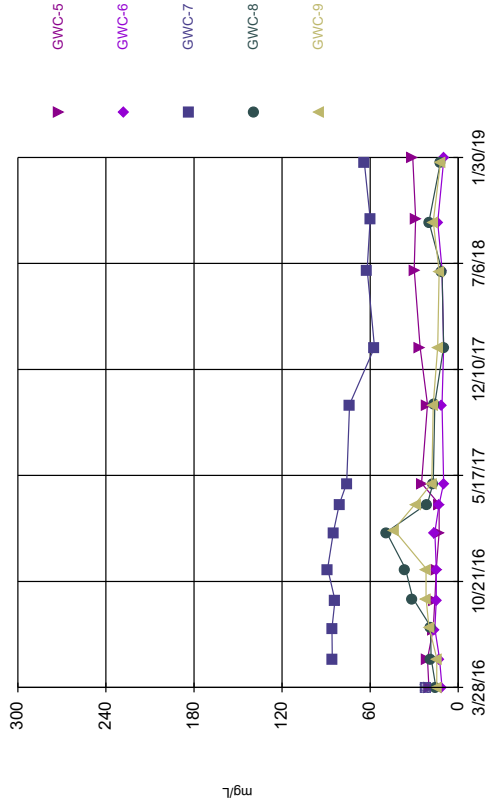
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate



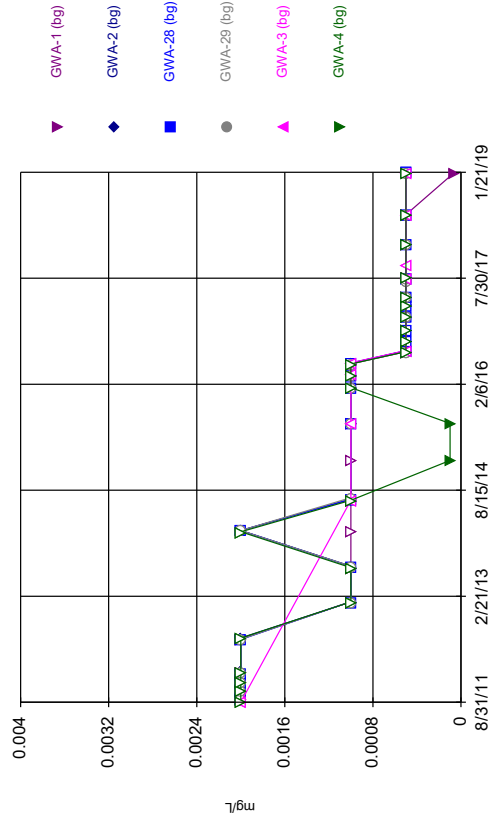
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate



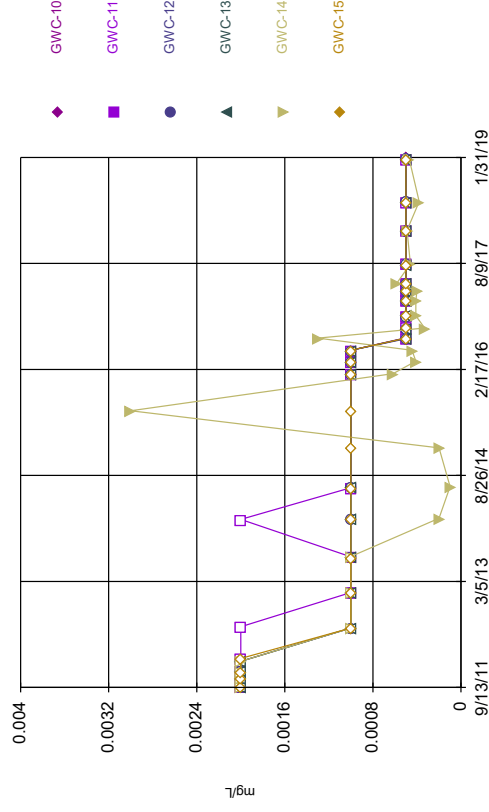
Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Thallium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

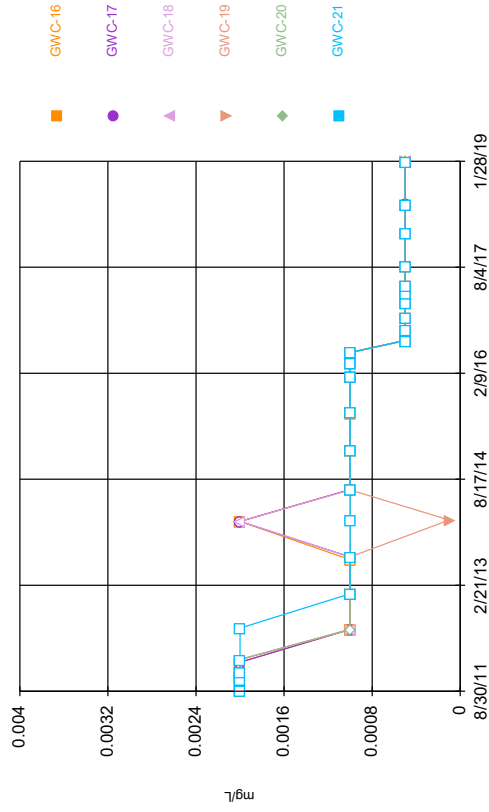
### Thallium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
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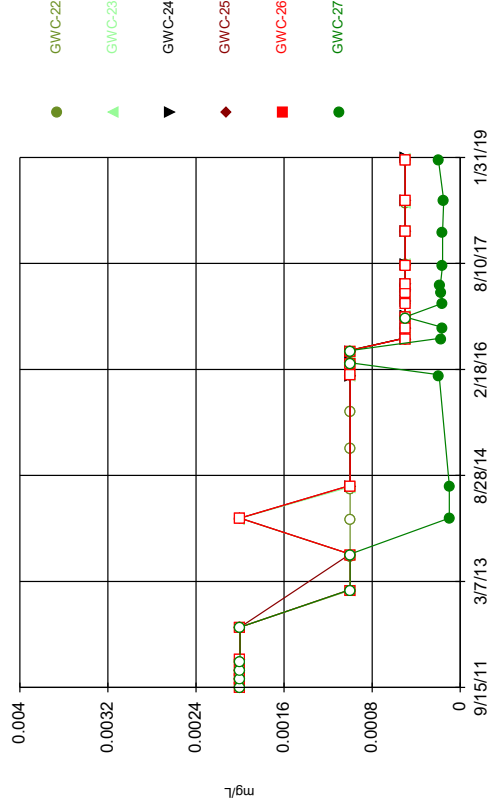
### Thallium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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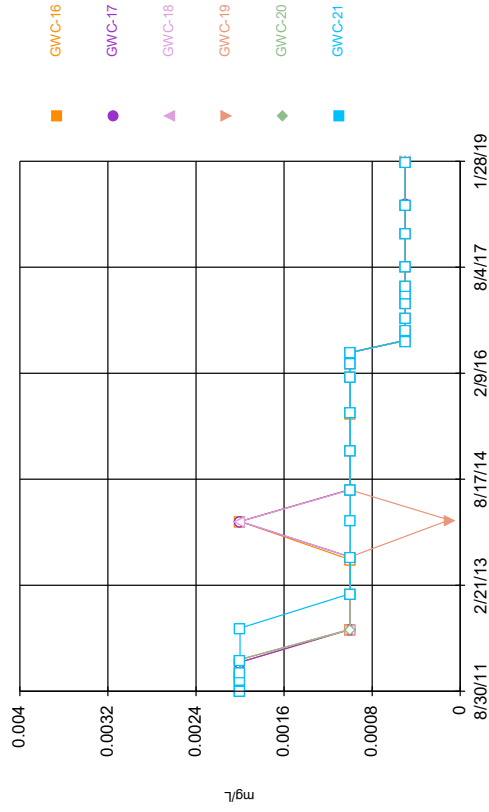
### Thallium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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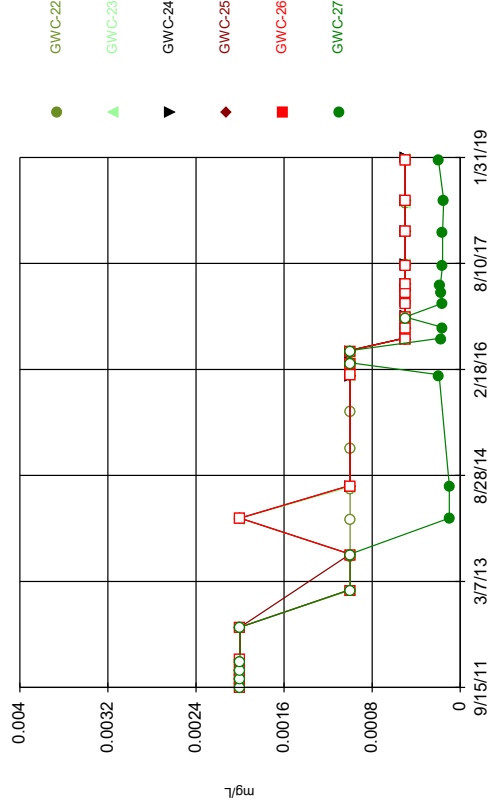
### Thallium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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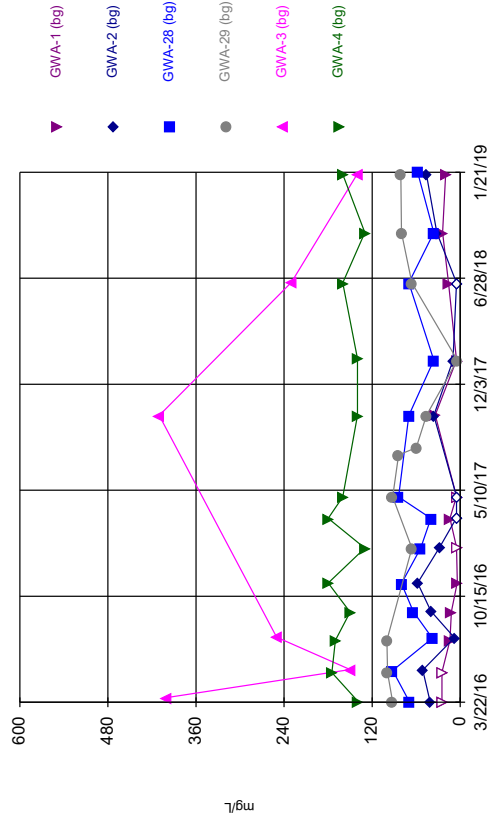
### Thallium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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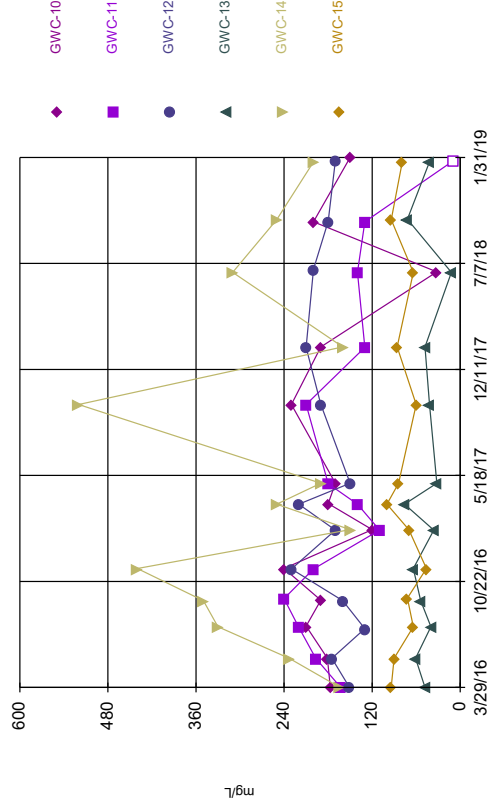
### Total Dissolved Solids



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

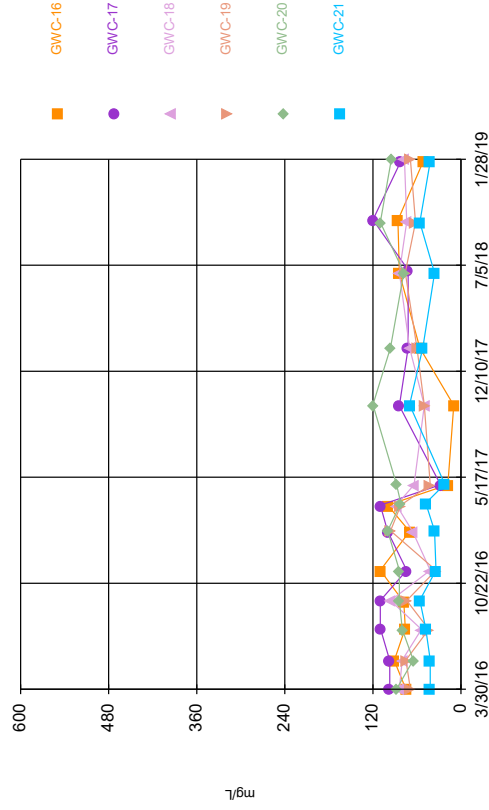
### Total Dissolved Solids



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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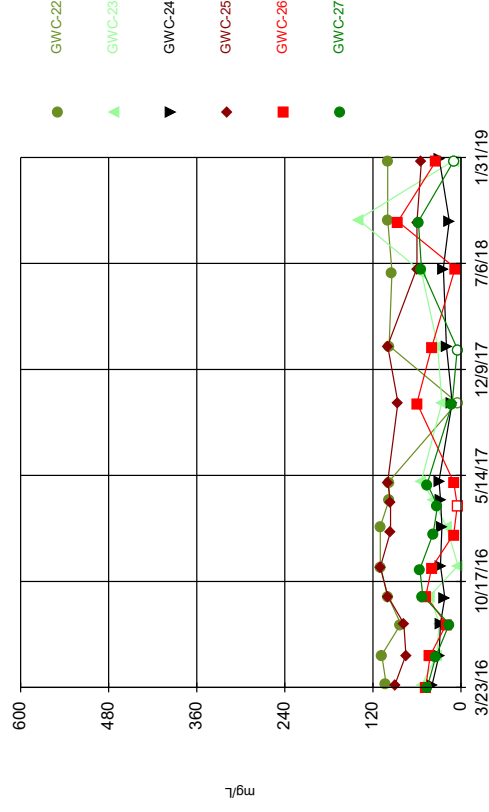
### Total Dissolved Solids



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

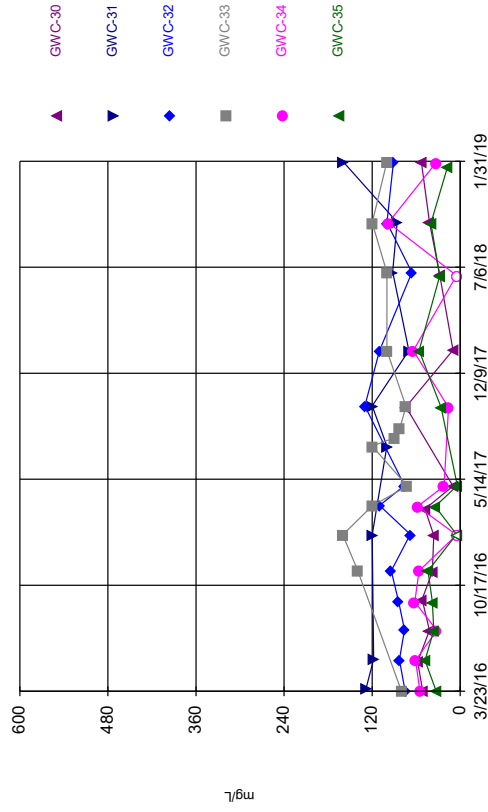
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Hollow symbols indicate censored values.

### Total Dissolved Solids



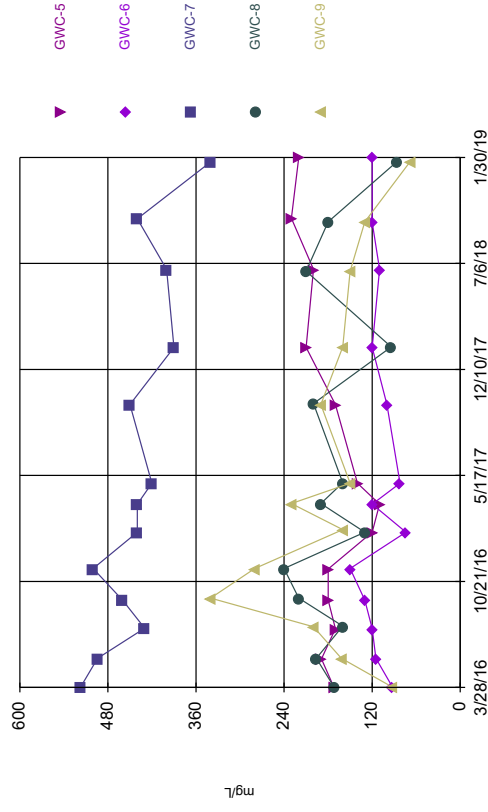
Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



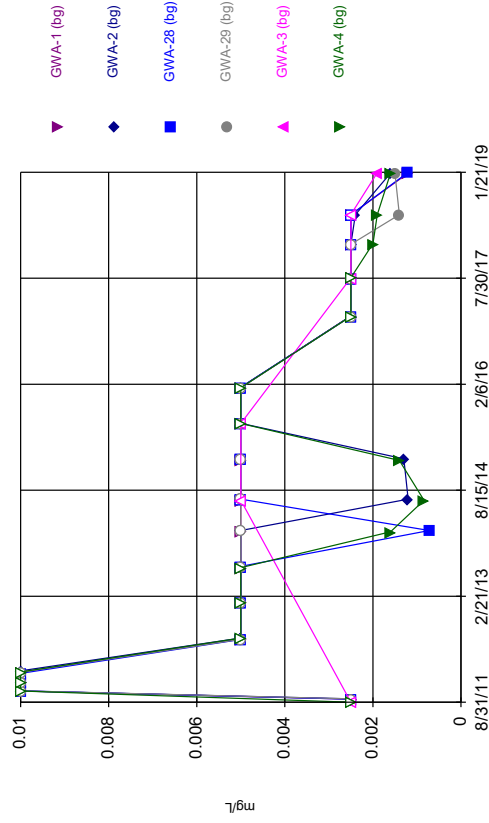
Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



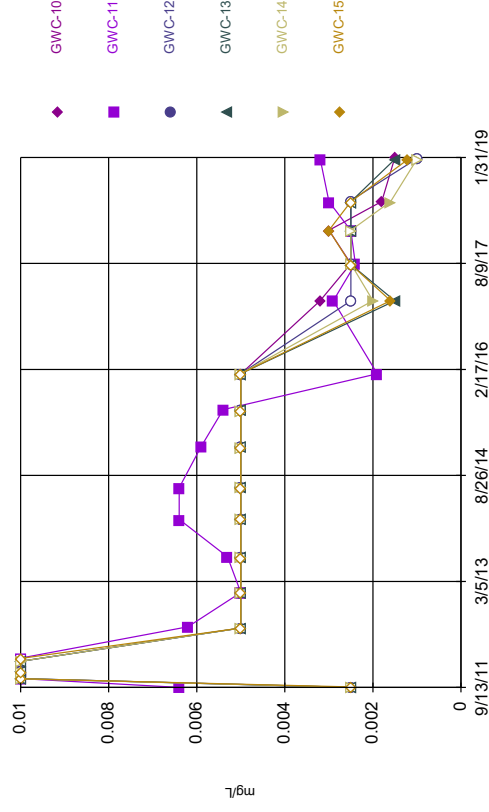
Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

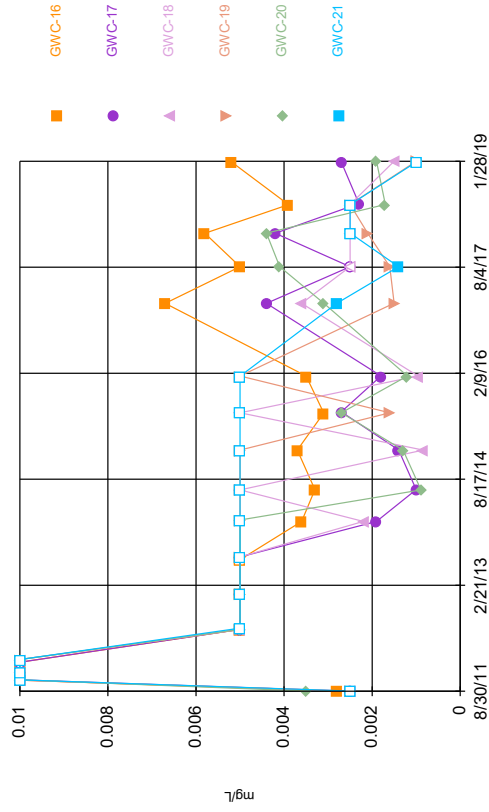
### Vanadium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

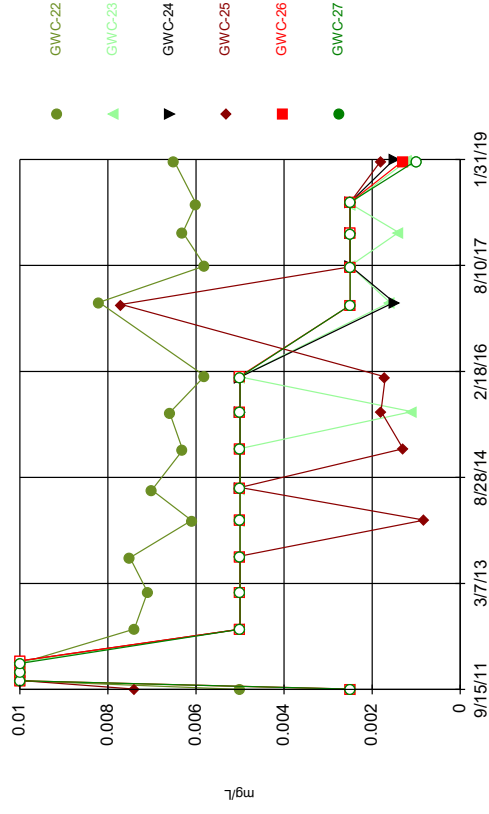
### Vanadium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

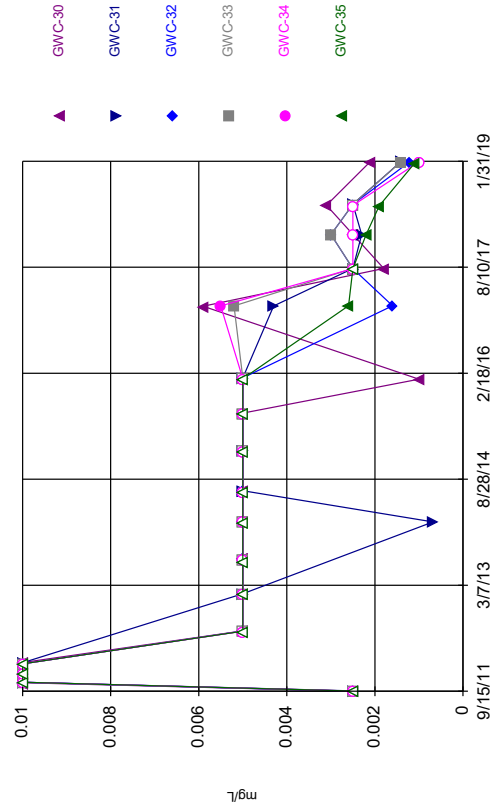
### Vanadium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

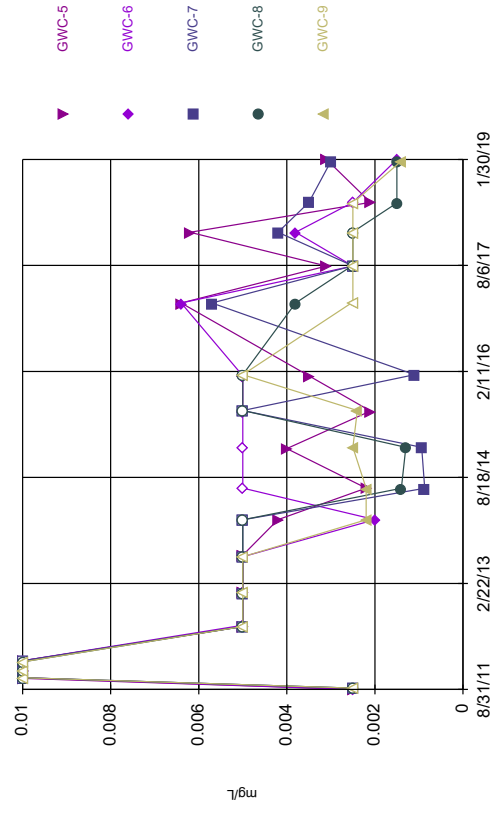
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Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

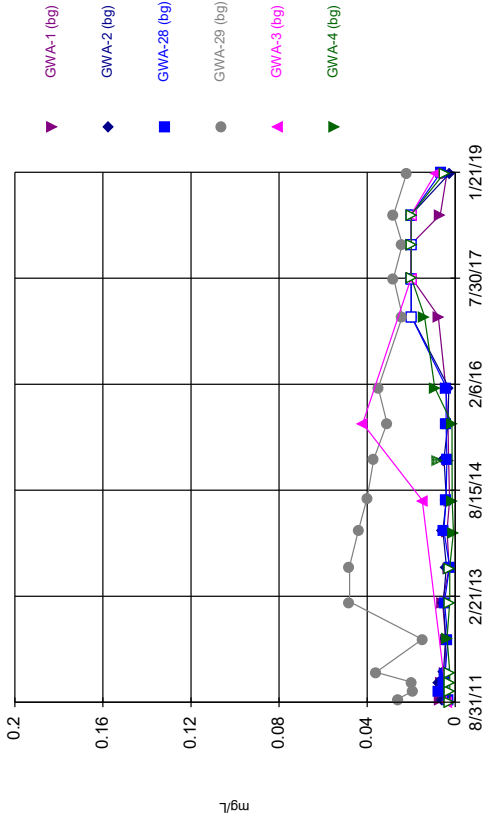
### Vanadium



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

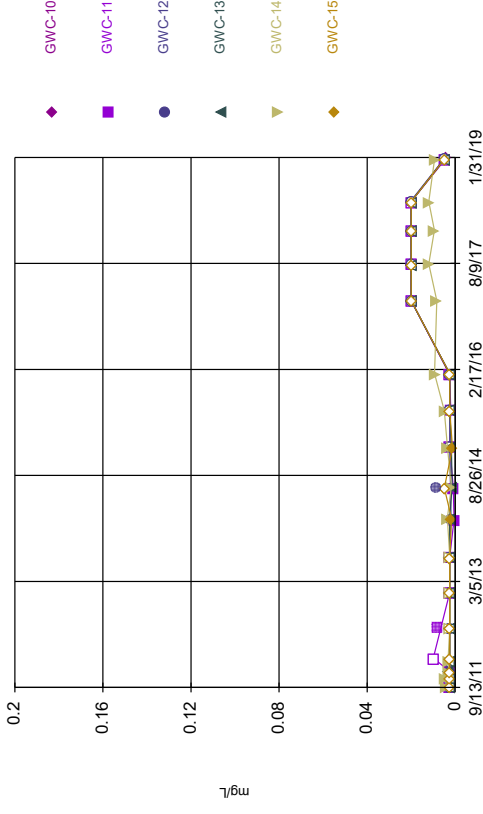
Zinc



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

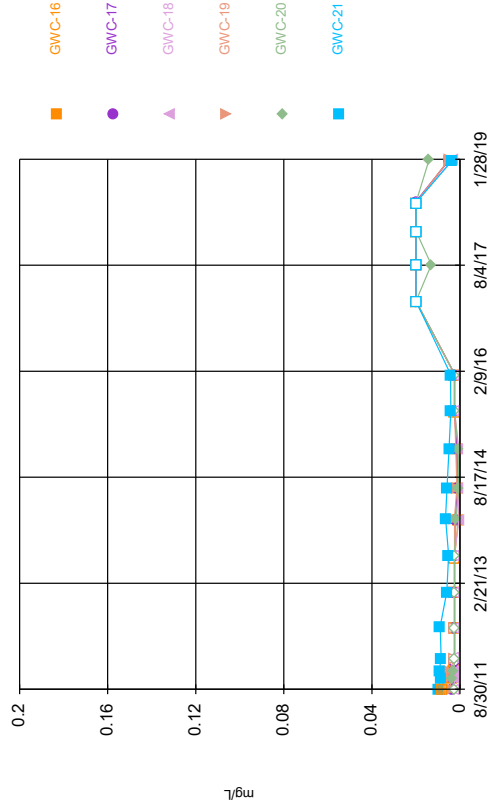
Zinc



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

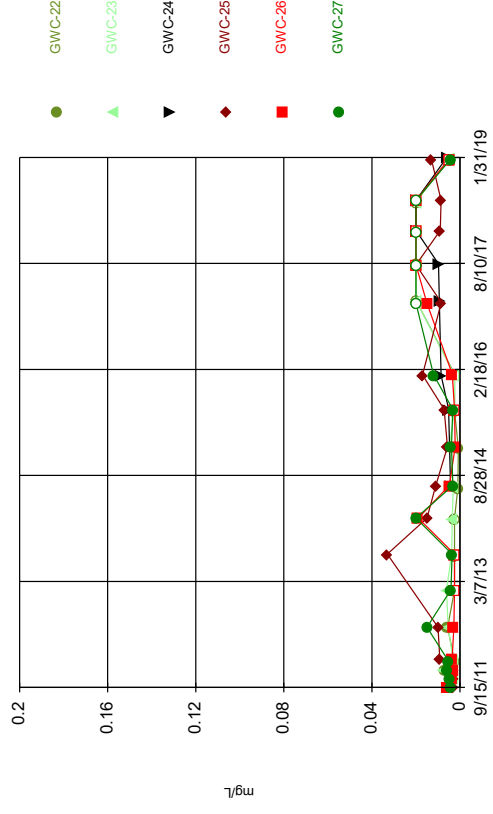
Zinc



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

Zinc

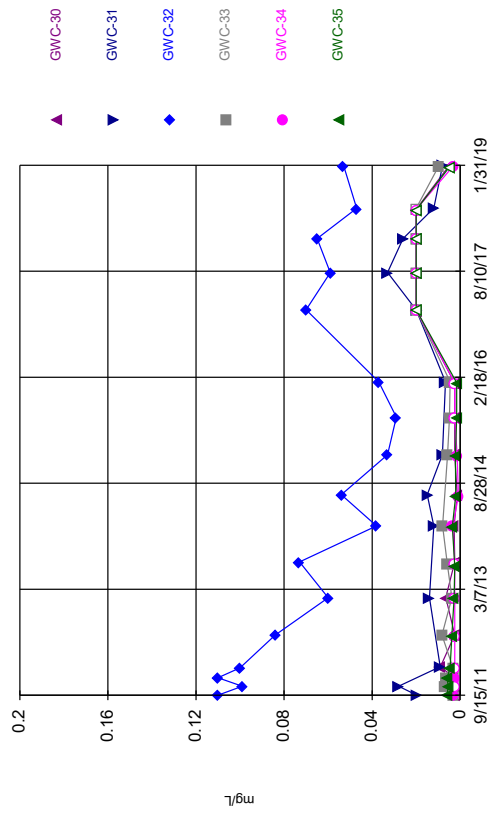


Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

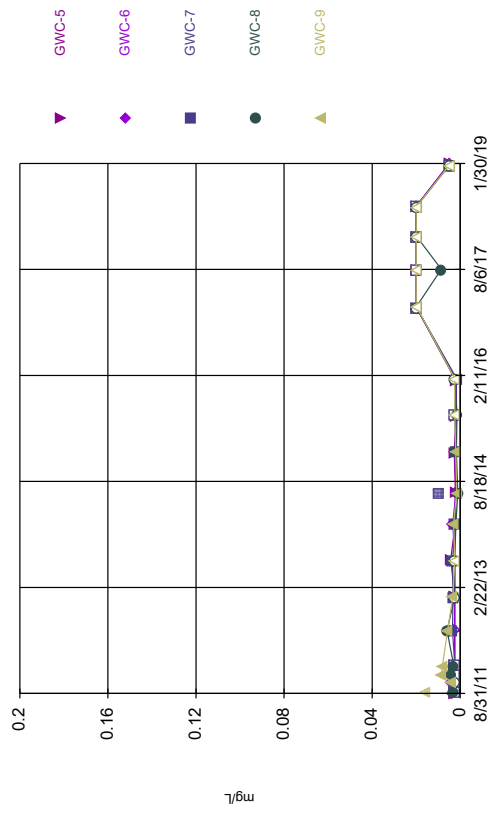
### Zinc



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG  
Hollow symbols indicate censored values.

### Zinc



Time Series Analysis Run 3/14/2019 1:50 PM View: State Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

**State 100% ND**

Date: 7/12/2019 5:37 PM

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-3, GWA-4, GWC-10, GWC-12, GWC-13, GWC-15, GWC-17, GWC-18, GWC-20, GWC-5, GWC-7

**Boron (mg/L)**

GWA-2, GWA-28, GWA-3, GWA-4, GWC-13, GWC-16, GWC-17, GWC-18, GWC-20, GWC-21, GWC-22, GWC-23, GWC-24, 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-21, GWC-23, GWC-25, GWC-26, GWC-27, GWC-30, GWC-31, GWC-32, GWC-33, GWC-34, GWC-35, GWC-5, GWC-6, GWC-7, GWC-8, GWC-9

**Cobalt (mg/L)**

GWA-28, GWC-13, GWC-17, GWC-18, GWC-22, GWC-30

**Copper (mg/L)**

GWA-1, GWA-4, GWC-12, GWC-16, GWC-18, GWC-19, GWC-21, GWC-22, GWC-30, GWC-32, GWC-34, GWC-7

**Lead (mg/L)**

GWA-1, GWA-2, GWA-28, GWA-4, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-21, GWC-22, GWC-23, GWC-30, GWC-32, GWC-33, GWC-35, GWC-6, GWC-7, GWC-9

**Mercury (mg/L)**

GWA-29

**Nickel (mg/L)**

GWC-12, GWC-18, 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-2, GWA-28, GWA-29, GWA-3, GWC-10, GWC-11, GWC-12, GWC-13, GWC-15, GWC-16, GWC-17, GWC-18, GWC-20, GWC-21, GWC-22, GWC-23, GWC-24, GWC-25, GWC-26, GWC-30, GWC-31, GWC-32, GWC-5

# Interwell Prediction Limit Significant Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 7/29/2019, 3:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
<b>Boron (mg/L)</b>	<b>GWC-14</b>	<b>0.1</b>	<b>6/25/2019</b>	<b>0.71</b>	<b>Yes</b>	<b>77</b>	<b>97.4</b>	<b>n/a</b>	<b>0.0003145</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>GWC-14</b>	<b>24</b>	<b>6/25/2019</b>	<b>82</b>	<b>Yes</b>	<b>76</b>	<b>1.316</b>	<b>n/a</b>	<b>0.0003228</b>	<b>NP Inter (normality) 1 of 2</b>

# Interwell Prediction Limit All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 7/29/2019, 3:15 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-11	0.1	6/26/2019	0.08ND	No	77	97.4	n/a	0.0003145	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.1	6/26/2019	0.057	No	77	97.4	n/a	0.0003145	NP Inter (NDs) 1 of 2
<b>Boron (mg/L)</b>	<b>GWC-14</b>	<b>0.1</b>	<b>6/25/2019</b>	<b>0.71</b>	<b>Yes</b>	<b>77</b>	<b>97.4</b>	<b>n/a</b>	<b>0.0003145</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron (mg/L)	GWC-15	0.1	6/25/2019	0.066	No	77	97.4	n/a	0.0003145	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-25	0.1	6/25/2019	0.08ND	No	77	97.4	n/a	0.0003145	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-33	0.1	6/26/2019	0.08ND	No	77	97.4	n/a	0.0003145	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8	0.1	6/25/2019	0.08ND	No	77	97.4	n/a	0.0003145	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-9	0.1	6/25/2019	0.068	No	77	97.4	n/a	0.0003145	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GWC-10	91	6/26/2019	16	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	91	6/26/2019	11	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	91	6/26/2019	43	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	91	6/25/2019	4.3	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	91	6/25/2019	26	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	91	6/25/2019	9.8	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	91	6/25/2019	7	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	91	6/25/2019	8.4	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-18	91	6/27/2019	7	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-19	91	6/26/2019	7.3	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	91	6/25/2019	9	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	91	6/25/2019	5	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	91	6/25/2019	12	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-23	91	6/26/2019	3.6	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-24	91	6/26/2019	0.34	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-25	91	6/25/2019	3.5	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-26	91	6/25/2019	1.8	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-27	91	6/26/2019	3.7	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-30	91	6/27/2019	3.6	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-31	91	6/26/2019	11	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-32	91	6/27/2019	7.6	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-33	91	6/26/2019	19	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-34	91	6/26/2019	2.8	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-35	91	6/26/2019	2	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5	91	6/26/2019	39	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6	91	6/26/2019	12	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-7	91	6/25/2019	50	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-8	91	6/25/2019	29	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	91	6/25/2019	14	No	77	1.299	n/a	0.0003145	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-10	24	6/26/2019	4.2	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	24	6/26/2019	3.2	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	24	6/26/2019	21	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	24	6/25/2019	1.3	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
<b>Chloride (mg/L)</b>	<b>GWC-14</b>	<b>24</b>	<b>6/25/2019</b>	<b>82</b>	<b>Yes</b>	<b>76</b>	<b>1.316</b>	<b>n/a</b>	<b>0.0003228</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride (mg/L)	GWC-15	24	6/25/2019	5.8	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	24	6/25/2019	1.5	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	24	6/25/2019	1.2	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-18	24	6/27/2019	1.6	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-19	24	6/26/2019	1.5	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	24	6/25/2019	1.9	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	24	6/25/2019	3.5	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	24	6/25/2019	1.7	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2

# Interwell Prediction Limit All Results

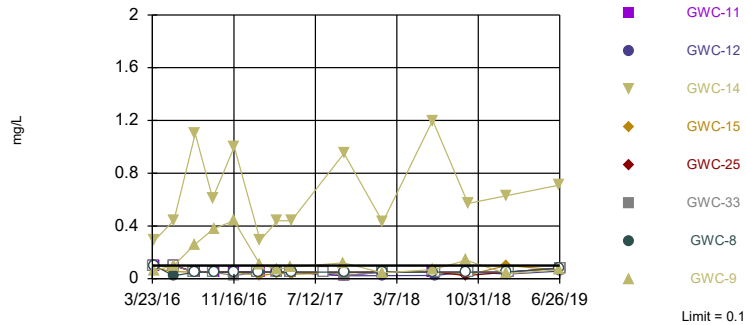
Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 7/29/2019, 3:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWC-23	24	6/26/2019	2	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-24	24	6/26/2019	4.4	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-25	24	6/25/2019	9	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-26	24	6/25/2019	3	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-27	24	6/26/2019	1.1	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-30	24	6/27/2019	1.4	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-31	24	6/26/2019	1.5	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-32	24	6/27/2019	1.1	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-33	24	6/26/2019	2.2	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-34	24	6/26/2019	1.2	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-35	24	6/26/2019	3.4	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5	24	6/26/2019	10	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6	24	6/26/2019	6	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-7	24	6/25/2019	16	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-8	24	6/25/2019	3.9	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	24	6/25/2019	7.7	No	76	1.316	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-10	3.2	6/26/2019	0.68	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-11	3.2	6/26/2019	0.096	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-12	3.2	6/26/2019	0.16	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-13	3.2	6/25/2019	0.084	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-14	3.2	6/25/2019	0.054	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-15	3.2	6/25/2019	0.068	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16	3.2	6/25/2019	0.052	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	3.2	6/25/2019	0.051	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-18	3.2	6/27/2019	0.046	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-19	3.2	6/26/2019	0.046	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-20	3.2	6/25/2019	0.049	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-21	3.2	6/25/2019	0.032	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-22	3.2	6/25/2019	0.052	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-23	3.2	6/26/2019	0.042	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-24	3.2	6/26/2019	0.04	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-25	3.2	6/25/2019	0.033	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-26	3.2	6/25/2019	0.047	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-27	3.2	6/26/2019	0.85	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-30	3.2	6/27/2019	0.073	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-31	3.2	6/26/2019	1.3	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-32	3.2	6/27/2019	2	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-33	3.2	6/26/2019	2.4	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-34	3.2	6/26/2019	0.11	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-35	3.2	6/26/2019	0.045	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-5	3.2	6/26/2019	0.081	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-6	3.2	6/26/2019	0.059	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-7	3.2	6/25/2019	0.21	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-8	3.2	6/25/2019	0.055	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-9	3.2	6/25/2019	0.066	No	76	44.74	n/a	0.0003228	NP Inter (normality) 1 of 2

Exceeds Limit: GWC-14

### Boron

Interwell Non-parametric



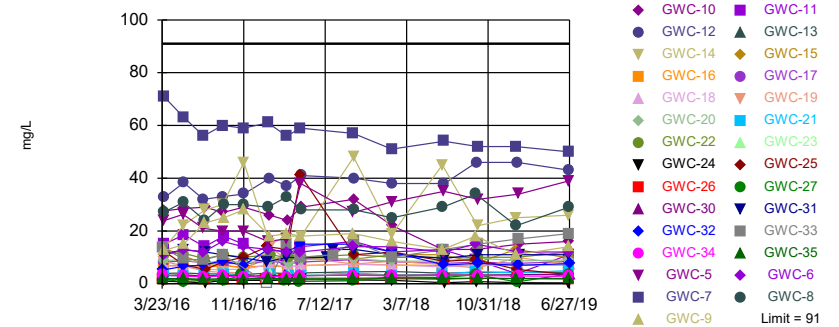
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 77 background values. 97.4% NDs. Annual per-constituent alpha = 0.01808. Individual comparison alpha = 0.0003145 (1 of 2). Comparing 8 points to limit. Assumes 21 future values.

Prediction Limit Analysis Run 7/29/2019 3:14 PM View: State CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Calcium

Interwell Non-parametric



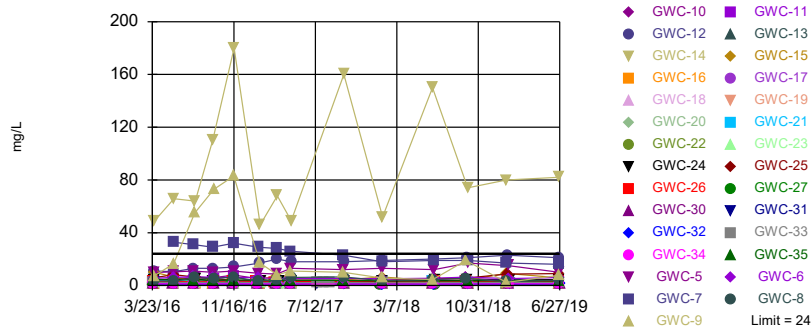
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 77 background values. 1.299% NDs. Annual per-constituent alpha = 0.01808. Individual comparison alpha = 0.0003145 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 7/29/2019 3:14 PM View: State CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit: GWC-14

### Chloride

Interwell Non-parametric



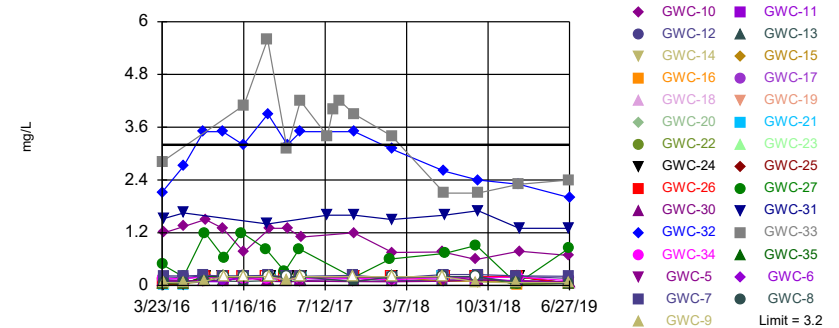
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 76 background values. 1.316% NDs. Annual per-constituent alpha = 0.01855. Individual comparison alpha = 0.0003228 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 7/29/2019 3:14 PM View: State CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Fluoride

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 76 background values. 44.74% NDs. Annual per-constituent alpha = 0.01855. Individual comparison alpha = 0.0003228 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 7/29/2019 3:14 PM View: State CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-1 (bg)	GWA-4 (bg)	GWC-33	GWA-2 (bg)	GWC-25	GWC-11	GWC-9
3/22/2016	<0.1	<0.1							
3/23/2016			<0.1	<0.1	<0.1	<0.1			
3/28/2016							<0.1		
3/29/2016								<0.1	0.0635 (J)
3/30/2016									
3/31/2016									
5/19/2016		<0.1		<0.1					
5/20/2016			<0.1						
5/23/2016	<0.1								
5/24/2016					<0.1	<0.1			0.0981 (J)
5/25/2016							<0.1	<0.1	
7/21/2016		<0.05	<0.05	<0.05					
7/22/2016					<0.05				
7/25/2016	<0.05							<0.05	0.26
7/26/2016						<0.05			
7/27/2016							<0.05		
9/14/2016				<0.05					
9/15/2016	<0.05		<0.05						
9/16/2016					<0.05	<0.05			
9/19/2016							<0.05	<0.05	0.38
9/20/2016									
11/9/2016	<0.05								
11/10/2016				<0.05		<0.05			
11/11/2016			<0.05						
11/15/2016							<0.05		
11/16/2016								<0.05	0.44
11/17/2016					0.023 (J)				
1/17/2017	<0.05	<0.05		<0.05					
1/19/2017			<0.05			<0.05			
1/24/2017							<0.05		
1/25/2017					<0.05				
1/26/2017									
1/31/2017								<0.05	0.11
2/1/2017									
3/16/2017	<0.05		<0.05	<0.05					
3/17/2017						<0.05			
3/23/2017					<0.05		<0.05	<0.05	0.071
4/27/2017	<0.05	<0.05		<0.05					
4/28/2017			<0.05			<0.05			
5/1/2017					<0.05				
5/2/2017							<0.05	<0.05	0.089
5/3/2017									
7/18/2017		0.027 (J)							
8/1/2017		<0.05							
8/4/2017					<0.05				
10/3/2017	<0.05	<0.05		<0.05		<0.05			0.12
10/4/2017			<0.05					0.022 (J)	
10/5/2017					0.025 (J)		<0.05		
1/19/2018	<0.05	<0.05	<0.05			<0.05			
1/22/2018				<0.05					
1/23/2018					<0.05				
1/24/2018								<0.05	0.044 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-1 (bg)	GWA-4 (bg)	GWC-33	GWA-2 (bg)	GWC-25	GWC-11	GWC-9
1/25/2018							<0.05		
6/19/2018	<0.05	<0.05	<0.05	<0.05		<0.05			
6/20/2018								<0.05	
6/21/2018									0.07
6/26/2018					<0.05				
6/27/2018							<0.05		
9/25/2018	<0.05	<0.05	<0.05	<0.05		<0.05			
9/26/2018							0.023 (J)		0.14
9/27/2018								<0.05	
9/28/2018									
10/1/2018									
10/2/2018					<0.05				
1/17/2019			<0.05	<0.05		<0.05			
1/18/2019		<0.05							
1/21/2019	<0.05								
1/22/2019									0.038 (J)
1/24/2019							<0.05	<0.05	
1/25/2019									
1/30/2019					<0.05				
6/24/2019			0.034 (J)	<0.08		<0.08			
6/25/2019	<0.08	<0.08					<0.08		0.068 (J)
6/26/2019					<0.08			<0.08	



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-8	GWC-14	GWC-15	GWA-3 (bg)
3/22/2016					
3/23/2016					
3/28/2016					
3/29/2016	<0.1	<0.1			
3/30/2016			0.291	0.0787 (J)	
3/31/2016					<0.1
5/19/2016					
5/20/2016					
5/23/2016					
5/24/2016		0.022 (J)			
5/25/2016	<0.1		0.443	0.0536 (J)	<0.1
7/21/2016					
7/22/2016	<0.05				
7/25/2016					
7/26/2016		<0.05	1.1	<0.05	
7/27/2016					<0.05
9/14/2016					
9/15/2016	<0.05		0.61		
9/16/2016					
9/19/2016		<0.05			
9/20/2016				<0.05	
11/9/2016					
11/10/2016					
11/11/2016					
11/15/2016					
11/16/2016	<0.05	<0.05			
11/17/2016			1	<0.05	
1/17/2017					
1/19/2017					
1/24/2017					
1/25/2017					
1/26/2017		<0.05			
1/31/2017	<0.05				
2/1/2017			0.29	0.023 (J)	
3/16/2017					
3/17/2017					
3/23/2017	<0.05	<0.05	0.44	0.042 (J)	
4/27/2017					
4/28/2017					
5/1/2017					
5/2/2017					
5/3/2017	<0.05	<0.05	0.44	0.034 (J)	
7/18/2017					
8/1/2017					<0.05
8/4/2017					
10/3/2017					<0.05
10/4/2017	0.022 (J)		0.95	0.044 (J)	
10/5/2017		<0.05			
1/19/2018					
1/22/2018					
1/23/2018					
1/24/2018	0.023 (J)	<0.05			

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-8	GWC-14	GWC-15	GWA-3 (bg)
1/25/2018			0.43	0.052	
6/19/2018					
6/20/2018			1.2	<0.05	<0.05
6/21/2018		<0.05			
6/26/2018	0.024 (J)				
6/27/2018					
9/25/2018					
9/26/2018		<0.05			
9/27/2018					
9/28/2018	<0.05				
10/1/2018			0.57	0.03 (J)	
10/2/2018					
1/17/2019					
1/18/2019					<0.05
1/21/2019					
1/22/2019		<0.05	0.63	0.1	
1/24/2019					
1/25/2019	0.036 (J)				
1/30/2019					
6/24/2019					
6/25/2019		<0.08	0.71	0.066 (J)	<0.08
6/26/2019	0.057 (J)				



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-4 (bg)	GWA-2 (bg)	GWC-33	GWA-1 (bg)	GWC-27	GWC-32	GWC-30
5/3/2017									
5/4/2017									
7/18/2017	<0.25 (*)								
7/19/2017									
8/1/2017	3.8								
8/4/2017					11				
10/3/2017	4.1	2.7	30	4.2			1.1		
10/4/2017						0.73			3.3
10/5/2017					16				
10/6/2017								15	
1/19/2018	3.7	2.6		3.8		0.7	2.5		
1/22/2018			33						
1/23/2018					10			12	
1/24/2018									3.2
1/25/2018									
1/26/2018									
6/19/2018	4.1	2.5	26	3.4		0.75			
6/20/2018									
6/21/2018									3.3
6/25/2018									
6/26/2018					13			7.1	
6/27/2018							2.4		
9/25/2018	4.6	2.8	29	4		0.73			
9/26/2018									
9/27/2018							3.4		
9/28/2018									
10/1/2018									
10/2/2018					15			7.7	
10/3/2018									3.3
1/17/2019			22	3.5		0.74			
1/18/2019	4.2								
1/21/2019		3							
1/22/2019									
1/24/2019							0.71		
1/25/2019									
1/28/2019									
1/30/2019					17			7	3.4
1/31/2019									
6/24/2019			27	5		0.76			
6/25/2019	4.8	3							
6/26/2019					19		3.7		
6/27/2019								7.6	3.6

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-35	GWC-26	GWC-25	GWC-5	GWC-6	GWC-23	GWC-13	GWC-9
3/22/2016									
3/23/2016									
3/24/2016	3.27	1.97	1.72						
3/28/2016				12.3	23.9	10.8			
3/29/2016							3.32	3.91	12.6
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			14.9
5/25/2016			1.68	7.2			3.4	4.06	
5/26/2016									
7/21/2016	2.6	1.7			21	12			
7/22/2016									
7/25/2016									23
7/26/2016			1.4					3.7	
7/27/2016				5.4			2.9		
9/14/2016									
9/15/2016	2.9	1.9			20	16		3.7	
9/16/2016									
9/19/2016			1.5	8.4					25
9/20/2016							3.3		
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			28
11/17/2016								3.5	
11/18/2016							2.9		
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			16	13			
1/31/2017								4.1	18
2/1/2017									
2/2/2017									
2/3/2017							3.3		
3/16/2017			1.7						
3/17/2017									
3/22/2017	2.7	1.8			17	12			
3/23/2017				13				3.9	19
3/24/2017									
3/28/2017							3.1		
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	3.1		1.6						
5/2/2017		2.1		41	38	12			18



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-11	GWC-12	GWC-7	GWC-10	GWC-31	GWC-16	GWC-15	GWC-18
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	27.2	15	32.6	70.8					
3/30/2016					27.6	11.3	6.72	13.3	6.88
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	30.8			63.2					
5/25/2016		18.5	38.3		28.5	12.9	7.09	10.6	
5/26/2016									6.42
7/21/2016									
7/22/2016			32	56					
7/25/2016		14							5.3
7/26/2016	24							7.2	
7/27/2016					29	12	6.4		
9/14/2016									
9/15/2016			33	60					
9/16/2016					27		6.7		
9/19/2016	30	18							5.4
9/20/2016								6.9	
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016	30	15	34	59					
11/17/2016					29		6.3	6.1	5.5
11/18/2016									
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017						8.3			
1/26/2017	29			61					
1/31/2017		8	40						
2/1/2017					26		6.8	9.6	7.3
2/2/2017									
2/3/2017									
3/16/2017									
3/17/2017									
3/22/2017				56					
3/23/2017	33	9.3	37			10		9.9	
3/24/2017					24		6.3		6.4
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		14		59		9.8			









# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-32	GWA-2 (bg)	GWC-30	GWA-4 (bg)	GWC-27
3/22/2016	1.5096	1.3716							
3/23/2016			1.8057	2.2604	1.0533	2.5102	1.3598	9.041	1.0825
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					1.1	4.52			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					1.1	4.1			
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					16	1
3/17/2017						4.4	1.3		
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 (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-32	GWA-2 (bg)	GWC-30	GWA-4 (bg)	GWC-27
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		17	0.96 (J)
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	0.98 (J)		1.2		
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					1.1		1.4		

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-35	GWC-34	GWC-6	GWC-5	GWC-25	GWC-11	GWC-8	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							3.4214	3.5914	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				3.16	
5/25/2016	2.93						5.33		10.5
5/26/2016						8.14			
7/21/2016		4.4	1.3	6.6	11				
7/22/2016									13
7/25/2016							5.8		
7/26/2016	3							5.9	
7/27/2016						6.3			
9/14/2016									
9/15/2016		4	1.2	6.1	10				13
9/16/2016									
9/19/2016	2.9					5.1	5.2	5.4	
9/20/2016									
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			6.7	6.2	14
11/17/2016									
11/18/2016									
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			3.6	
1/31/2017							2.1		17
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017	2.7								
3/17/2017									
3/22/2017		3.9	1.1	5.2	8.7				
3/23/2017						3.2	2	3.9	20
3/24/2017									
3/28/2017									
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	3.3		



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-9	GWC-23	GWC-20	GWC-15	GWC-21	GWC-16	GWC-31	GWC-19
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	1.3057	7.395	1.9463						
3/30/2016				2.0074	9.921	3.9326	1.4751	1.9069	2.2278
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016		16.4							
5/25/2016	1.27		1.96		6.31		1.43	1.89	
5/26/2016				2		3.59			1.53
7/21/2016									
7/22/2016									
7/25/2016		55		2.1					1.5
7/26/2016	1.4				3.6	3.3			
7/27/2016			2.1				1.7		
9/14/2016									
9/15/2016	1.3								
9/16/2016							1.5		
9/19/2016		73							1.4
9/20/2016			1.9	2	2.7	3.1			
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016		83							
11/17/2016	1.2			1.9	2.5	3	1.4		1.4
11/18/2016			1.8						
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017								1.9	
1/26/2017									
1/31/2017	1.2	17							
2/1/2017					5.4		1.4		
2/2/2017				1.9					3.1
2/3/2017			1.9						
3/16/2017									
3/17/2017									
3/22/2017									
3/23/2017	1.2	8.2			6.6				
3/24/2017							1.3		2.1
3/28/2017			1.8	1.8		3.4			
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		11							







# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-24	GWC-17	GWC-10	GWC-18	GWC-22	GWA-3 (bg)	GWC-7
5/3/2017	49		1.2	3.9	1.6	1.5		
5/4/2017		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	160		1.1	3.9				
10/5/2017		3.3			1.5	1.5		
10/6/2017								
1/19/2018								
1/22/2018								
1/23/2018								18
1/24/2018								
1/25/2018	52	3.1	0.99 (J)	4.2	1.6	1.3		
1/26/2018								
6/19/2018								
6/20/2018	150					1.5	12	
6/21/2018				4.6	1.5			
6/25/2018								19
6/26/2018			1.1					
6/27/2018		3.8						
9/25/2018								
9/26/2018								
9/27/2018				5.4				
9/28/2018		3.8			1.6			
10/1/2018	74					1.6		
10/2/2018			1.2					19
10/3/2018								
1/17/2019								
1/18/2019							19	
1/21/2019								17
1/22/2019	80							
1/24/2019			1.2			1.6		
1/25/2019								
1/28/2019					1.7			
1/30/2019								
1/31/2019		4.1		4				
6/24/2019								
6/25/2019	82		1.2			1.7	<1	16
6/26/2019		4.4		4.2				
6/27/2019					1.6			

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-4 (bg)	GWC-33	GWC-32	GWA-2 (bg)	GWC-30	GWA-1 (bg)	GWC-27
3/22/2016	1.4375	2.2163							
3/23/2016			0.0713 (J)	2.8158	2.1209	0.0276 (J)	0.0999 (J)	0.019 (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							0.104 (J)	0.02 (J)	
5/23/2016	1.62								
5/24/2016					2.71	0.023 (J)			0.198 (J)
5/25/2016									
5/26/2016									
7/21/2016		3.2	<0.2				0.11 (J)	<0.2	
7/22/2016					3.5				
7/25/2016	1.7								
7/26/2016							<0.2		1.2
7/27/2016									
9/14/2016			<0.2						
9/15/2016	1.6							<0.2	
9/16/2016					3.5	<0.2			
9/19/2016									0.64
9/20/2016							0.092 (J)		
11/9/2016	1.7								
11/10/2016			<0.2				<0.2		
11/11/2016								<0.2	1.2
11/14/2016							<0.2		
11/15/2016					3.2				
11/16/2016									
11/17/2016				4.1					
11/18/2016									
1/17/2017	1.6	2.6	<0.2						
1/19/2017							<0.2	<0.2	
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		<0.2					<0.2	0.32
3/17/2017							<0.2	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	<0.2						
4/28/2017							<0.2	<0.2	0.83
5/1/2017				4.2			0.092 (J)		
5/2/2017					3.5				

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-4 (bg)	GWC-33	GWC-32	GWA-2 (bg)	GWC-30	GWA-1 (bg)	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	<0.2			<0.2			0.18 (J)
10/4/2017							0.091 (J)	<0.2	
10/5/2017				3.9					
10/6/2017					3.5				
1/19/2018	1.4	2.1				<0.2		<0.2	0.6
1/22/2018			<0.2						
1/23/2018				3.4	3.1				
1/24/2018							<0.2		
1/25/2018									
1/26/2018									
6/19/2018	1.6	2.3	0.084 (J)			<0.2		<0.2	
6/20/2018									
6/21/2018							<0.2		
6/25/2018									
6/26/2018				2.1	2.6				
6/27/2018									0.73
9/25/2018	1.7	2.3	<0.2			<0.2		<0.2	
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)			<0.2		<0.2	
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)		

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/29/2019 3:15 PM View: State CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-35	GWC-26	GWC-6	GWC-25	GWC-5	GWC-8	GWC-11	GWC-9
3/22/2016									
3/23/2016									
3/24/2016	0.1653 (J)	0.0396 (J)	0.0318 (J)						
3/28/2016				0.0752 (J)	0.0542 (J)	0.1116 (J)			
3/29/2016							0.0698 (J)	0.1377 (J)	0.0671 (J)
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016	0.155 (J)	0.0343 (J)				0.1022 (J)			
5/24/2016				0.081 (J)			0.072 (J)		0.06 (J)
5/25/2016			0.0282 (J)					0.1521 (J)	
5/26/2016					0.034 (J)				
7/21/2016	0.19 (J)	<0.2		0.088 (J)		0.11 (J)			
7/22/2016									
7/25/2016								0.21	0.096 (J)
7/26/2016			<0.2				0.092 (J)		
7/27/2016					<0.2				
9/14/2016									
9/15/2016	0.16 (J)	<0.2		0.084 (J)		0.084 (J)			
9/16/2016									
9/19/2016			<0.2		<0.2		<0.2	0.15 (J)	<0.2
9/20/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016			<0.2						
11/15/2016	0.14 (J)	<0.2			<0.2	<0.2			
11/16/2016				<0.2			<0.2	0.14 (J)	<0.2
11/17/2016									
11/18/2016									
1/17/2017									
1/19/2017			<0.2						
1/20/2017									
1/24/2017					<0.2				
1/25/2017	0.16 (J)								
1/26/2017		<0.2		<0.2		<0.2	<0.2		
1/31/2017								<0.2	<0.2
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017			<0.2						
3/17/2017									
3/22/2017	0.14 (J)	<0.2		<0.2		<0.2			
3/23/2017					<0.2		<0.2	0.097 (J)	0.12 (J)
3/24/2017									
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	0.16 (J)		<0.2						
5/2/2017		<0.2		<0.2	<0.2	0.1 (J)		0.11 (J)	<0.2













# Intrawell Prediction Limit Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 7/29/2019, 3:31 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	GWC-18	6.184	5.79	6/27/2019	5.78	Yes	8	0	No	0.0001297	Param Intra 1 of 3
Sulfate (mg/L)	GWA-28	1.623	n/a	6/25/2019	2.2	Yes	9	11.11	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWA-29	14.38	n/a	6/25/2019	26	Yes	8	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-12	25	n/a	6/26/2019	25	Yes	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-17	1	n/a	6/25/2019	1.1	Yes	9	55.56	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-30	1.476	n/a	6/27/2019	1.7	Yes	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-5	28.38	n/a	6/26/2019	31	Yes	9	0	No	0.0002595	Param Intra 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 7/29/2019, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (S.U.)	GWA-1	5.89	4.924	6/24/2019	5.3	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWA-2	6.032	5.384	6/24/2019	5.75	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWA-28	6.819	5.59	6/25/2019	6.03	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWA-29	6.445	5.85	6/25/2019	5.96	No	8	0	n/a	0.01182	NP Intra (normality) 1 of 3
pH (S.U.)	GWA-4	6.737	5.889	6/24/2019	6.12	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-10	7.052	5.712	6/26/2019	5.78	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-11	6.62	5.665	6/26/2019	5.97	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-12	8.157	6.211	6/26/2019	7.28	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-13	7.864	5.917	6/25/2019	6.54	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-14	6.434	4.646	6/25/2019	5.49	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-15	6.805	6.368	6/25/2019	6.43	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-16	6.446	5.744	6/25/2019	6.08	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-17	6.439	5.99	6/25/2019	6.12	No	9	0	No	0.0001297	Param Intra 1 of 3
<b>pH (S.U.)</b>	<b>GWC-18</b>	<b>6.184</b>	<b>5.79</b>	<b>6/27/2019</b>	<b>5.78</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.0001297</b>	<b>Param Intra 1 of 3</b>
pH (S.U.)	GWC-19	6.378	5.662	6/26/2019	5.78	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-20	7.121	6.08	6/25/2019	6.15	No	8	0	n/a	0.01182	NP Intra (normality) 1 of 3
pH (S.U.)	GWC-21	6.639	4.842	6/25/2019	5.35	No	9	0	ln(x)	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-22	6.93	6.307	6/25/2019	6.59	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-23	7.694	4.5	6/26/2019	5.86	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-24	7.997	4.166	6/26/2019	5.59	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-25	7.499	4.944	6/25/2019	5.66	No	11	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-26	6.074	5.364	6/25/2019	5.63	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-27	6.049	5.176	6/26/2019	5.72	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-30	6.78	5.9	6/27/2019	6.08	No	10	0	n/a	0.00688	NP Intra (normality) 1 of 3
pH (S.U.)	GWC-31	6.538	5.676	6/26/2019	6.18	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-32	6.455	5.918	6/27/2019	6.11	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-33	7.046	5.743	6/26/2019	6.3	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-34	6.666	5.244	6/26/2019	5.8	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-35	6.327	4.97	6/26/2019	5.55	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-5	7.504	5.579	6/26/2019	6.42	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-6	6.642	5.542	6/26/2019	5.82	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-7	6.539	6.191	6/25/2019	6.23	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-8	6.659	5.667	6/25/2019	5.85	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-9	6.468	5.402	6/25/2019	5.71	No	8	0	No	0.0001297	Param Intra 1 of 3
Sulfate (mg/L)	GWA-1	1	n/a	6/24/2019	1ND	No	9	100	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWA-2	2.432	n/a	6/24/2019	0.91	No	9	0	No	0.0002595	Param Intra 1 of 3
<b>Sulfate (mg/L)</b>	<b>GWA-28</b>	<b>1.623</b>	<b>n/a</b>	<b>6/25/2019</b>	<b>2.2</b>	<b>Yes</b>	<b>9</b>	<b>11.11</b>	<b>No</b>	<b>0.0002595</b>	<b>Param Intra 1 of 3</b>
<b>Sulfate (mg/L)</b>	<b>GWA-29</b>	<b>14.38</b>	<b>n/a</b>	<b>6/25/2019</b>	<b>26</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.0002595</b>	<b>Param Intra 1 of 3</b>
Sulfate (mg/L)	GWA-3	459.9	n/a	6/25/2019	1ND	No	4	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWA-4	15	n/a	6/24/2019	10	No	9	0	n/a	0.004675	NP Intra (normality) 1 of 3
Sulfate (mg/L)	GWC-10	54.19	n/a	6/26/2019	13	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-11	3.7	n/a	6/26/2019	0.47	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
<b>Sulfate (mg/L)</b>	<b>GWC-12</b>	<b>25</b>	<b>n/a</b>	<b>6/26/2019</b>	<b>25</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>No</b>	<b>0.0002595</b>	<b>Param Intra 1 of 3</b>
Sulfate (mg/L)	GWC-13	3.019	n/a	6/25/2019	3	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-14	40.29	n/a	6/25/2019	13	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-15	2.311	n/a	6/25/2019	2	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-16	1	n/a	6/25/2019	0.84	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
<b>Sulfate (mg/L)</b>	<b>GWC-17</b>	<b>1</b>	<b>n/a</b>	<b>6/25/2019</b>	<b>1.1</b>	<b>Yes</b>	<b>9</b>	<b>55.56</b>	<b>n/a</b>	<b>0.004675</b>	<b>NP Intra (NDs) 1 of 3</b>
Sulfate (mg/L)	GWC-18	1	n/a	6/27/2019	0.85	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-19	10.99	n/a	6/26/2019	0.88	No	9	33.33	ln(x)	0.0002595	Param Intra 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 7/29/2019, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	GWC-20	1.229	n/a	6/25/2019	0.99	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-21	1	n/a	6/25/2019	1ND	No	9	88.89	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-22	1	n/a	6/25/2019	0.76	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-23	1	n/a	6/26/2019	0.64	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-24	1.019	n/a	6/26/2019	0.71	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-25	37.52	n/a	6/25/2019	1.6	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-26	1	n/a	6/25/2019	0.78	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-27	4	n/a	6/26/2019	3.2	No	9	11.11	No	0.0002595	Param Intra 1 of 3
<b>Sulfate (mg/L)</b>	<b>GWC-30</b>	<b>1.476</b>	<b>n/a</b>	<b>6/27/2019</b>	<b>1.7</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>No</b>	<b>0.0002595</b>	<b>Param Intra 1 of 3</b>
Sulfate (mg/L)	GWC-31	30.01	n/a	6/26/2019	9.9	No	5	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-32	16.09	n/a	6/27/2019	9.9	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-33	51.84	n/a	6/26/2019	10	No	9	0	x^(1/3)	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-34	1.942	n/a	6/26/2019	1.9	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-35	3.045	n/a	6/26/2019	2.8	No	9	0	No	0.0002595	Param Intra 1 of 3
<b>Sulfate (mg/L)</b>	<b>GWC-5</b>	<b>28.38</b>	<b>n/a</b>	<b>6/26/2019</b>	<b>31</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>No</b>	<b>0.0002595</b>	<b>Param Intra 1 of 3</b>
Sulfate (mg/L)	GWC-6	19.18	n/a	6/26/2019	9.3	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-7	96.86	n/a	6/25/2019	59	No	8	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-8	54.3	n/a	6/25/2019	14	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-9	46.04	n/a	6/25/2019	11	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-1	34.17	n/a	6/24/2019	21	No	9	44.44	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-2	78.63	n/a	6/24/2019	72	No	9	22.22	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-28	113.8	n/a	6/25/2019	88	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-29	134.7	n/a	6/25/2019	97	No	8	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-3	1139	n/a	6/25/2019	130	No	4	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-4	207.3	n/a	6/24/2019	170	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-10	279.8	n/a	6/26/2019	46	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-11	289.2	n/a	6/26/2019	87	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-12	259.8	n/a	6/26/2019	140	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-13	87.6	n/a	6/25/2019	56	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-14	619.1	n/a	6/25/2019	280	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-15	120.9	n/a	6/25/2019	99	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	157.4	n/a	6/25/2019	91	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-17	157.3	n/a	6/25/2019	110	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-18	117.1	n/a	6/27/2019	77	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-19	116.9	n/a	6/26/2019	5ND	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-20	126.6	n/a	6/25/2019	100	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-21	79.36	n/a	6/25/2019	63	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-22	126.6	n/a	6/25/2019	110	No	9	11.11	x^3	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-23	73.94	n/a	6/26/2019	44	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-24	45.46	n/a	6/26/2019	5ND	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-25	121.1	n/a	6/25/2019	58	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-26	84.21	n/a	6/25/2019	49	No	9	11.11	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-27	75.8	n/a	6/26/2019	5ND	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-30	90.38	n/a	6/27/2019	30	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-31	169.9	n/a	6/26/2019	110	No	5	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-32	139.5	n/a	6/27/2019	47	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-33	185.8	n/a	6/26/2019	100	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-34	98.43	n/a	6/26/2019	61	No	9	11.11	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-35	70.88	n/a	6/26/2019	46	No	9	11.11	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-5	231.8	n/a	6/26/2019	120	No	9	0	No	0.0002595	Param Intra 1 of 3

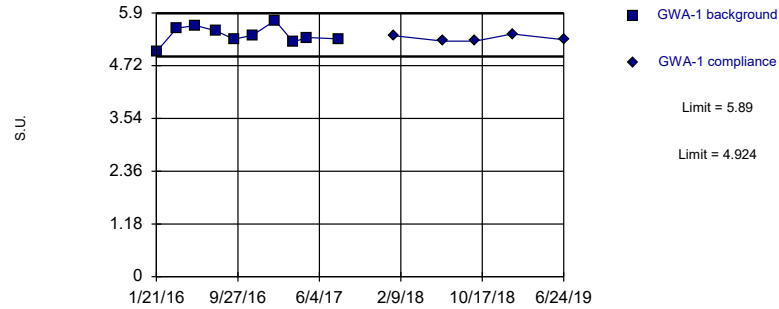
# Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 7/29/2019, 3:31 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	GWC-6	171.4	n/a	6/26/2019	41	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-7	548.9	n/a	6/25/2019	400	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-8	271.5	n/a	6/25/2019	200	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-9	390.3	n/a	6/25/2019	160	No	9	0	No	0.0002595	Param Intra 1 of 3

Within Limits

pH  
Intrawell Parametric

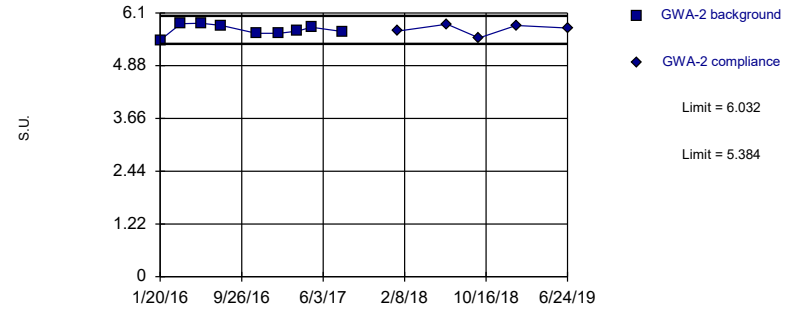


Background Data Summary: Mean=5.407, Std. Dev.=0.2025, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9795, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

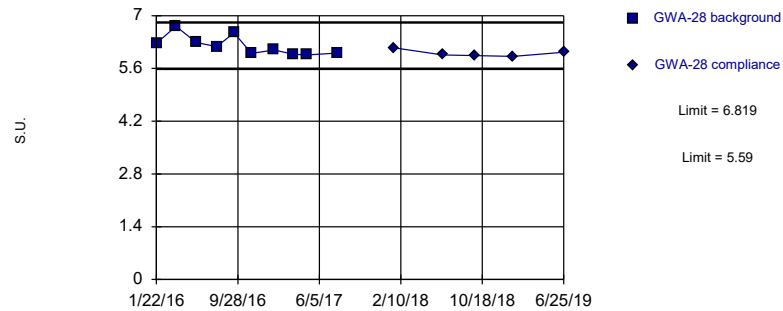


Background Data Summary: Mean=5.708, Std. Dev.=0.1266, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9321, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

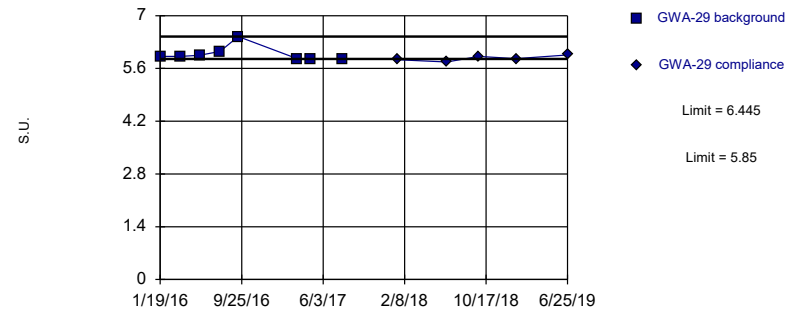


Background Data Summary: Mean=6.204, Std. Dev.=0.2576, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8673, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Non-parametric

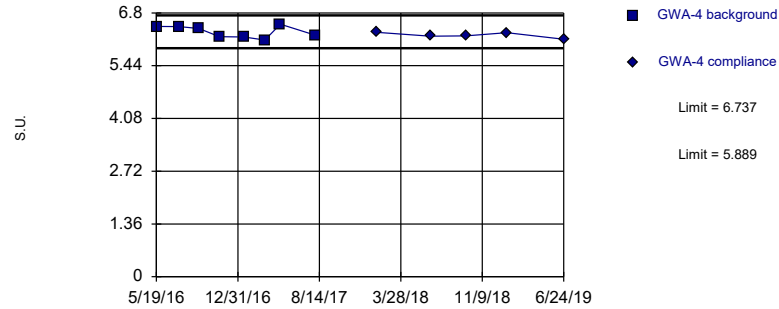


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

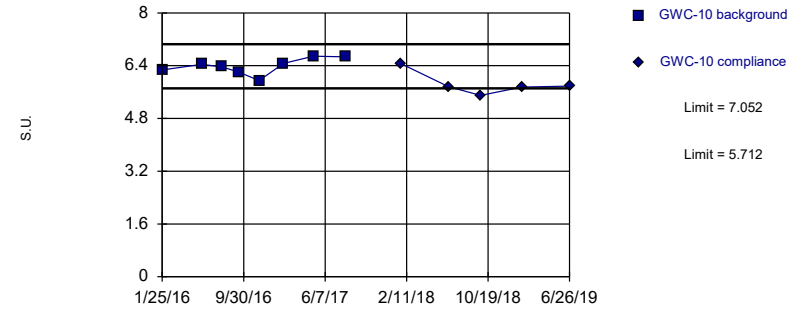


Background Data Summary: Mean=6.313, Std. Dev.=0.1551, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8952, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

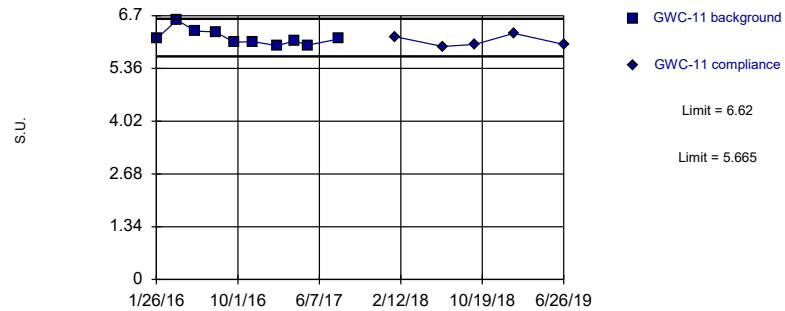


Background Data Summary: Mean=6.382, Std. Dev.=0.2451, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

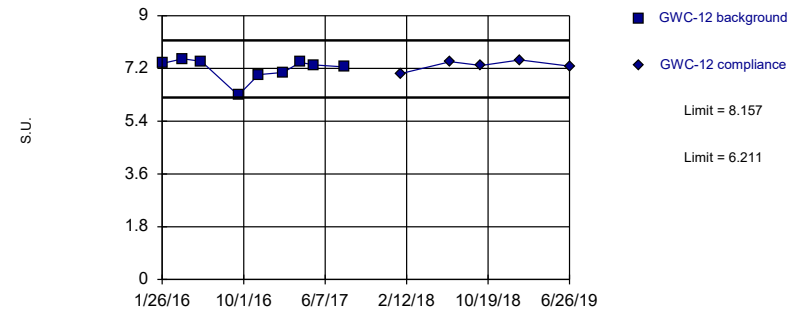


Background Data Summary: Mean=6.143, Std. Dev.=0.2, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8639, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric



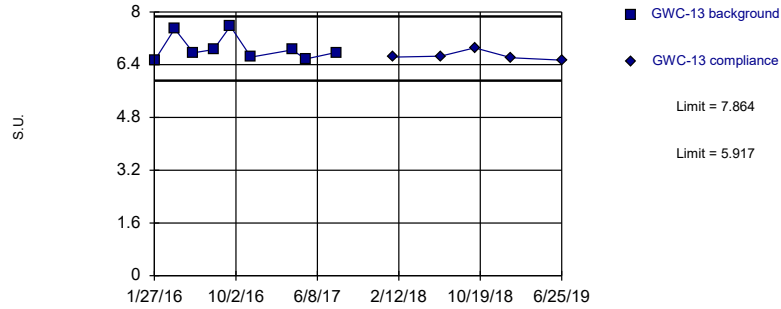
Background Data Summary: Mean=7.184, Std. Dev.=0.3803, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.796, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limits

### pH Intrawell Parametric

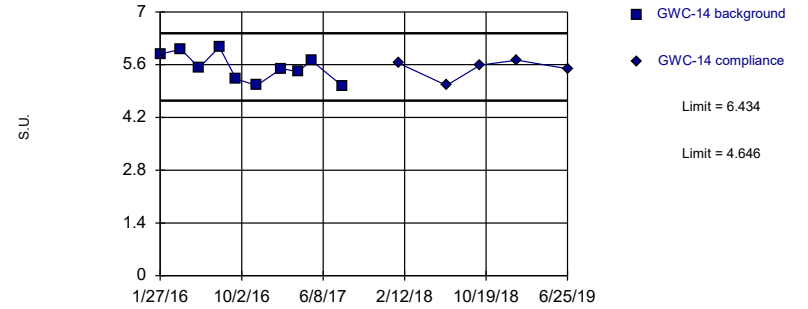


Background Data Summary: Mean=6.891, Std. Dev.=0.3804, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8096, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

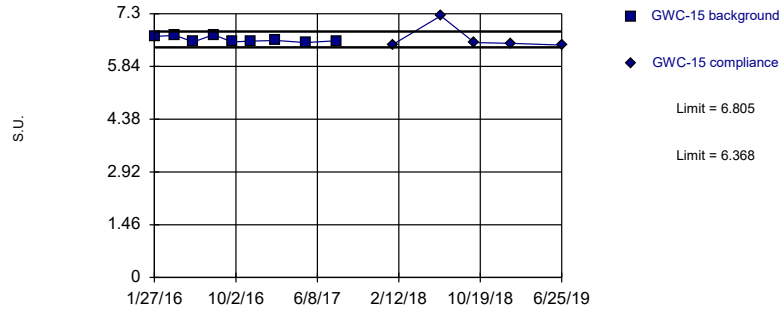


Background Data Summary: Mean=5.54, Std. Dev.=0.3747, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9394, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

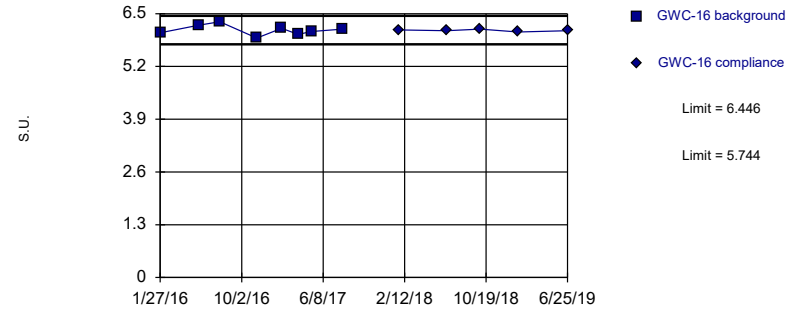


Background Data Summary: Mean=6.587, Std. Dev.=0.08535, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8279, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

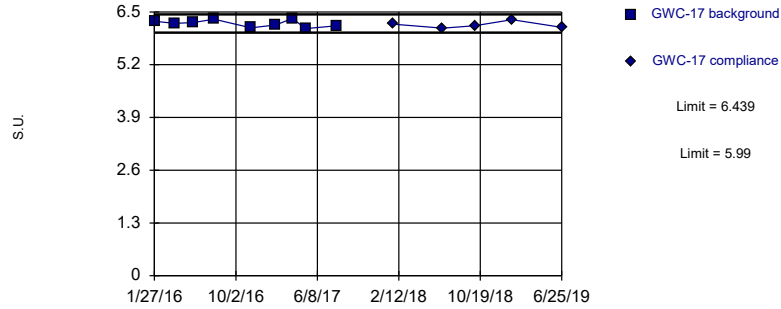


Background Data Summary: Mean=6.095, Std. Dev.=0.1285, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9916, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

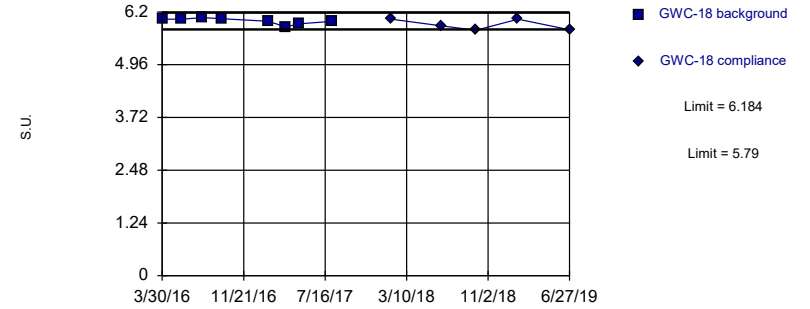


Background Data Summary: Mean=6.215, Std. Dev.=0.08769, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9614, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limits

pH  
Intrawell Parametric

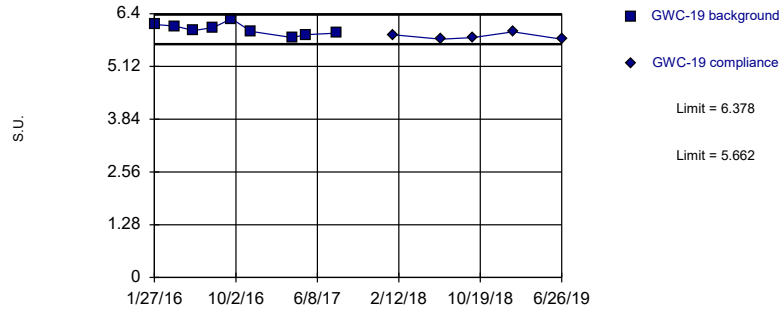


Background Data Summary: Mean=5.987, Std. Dev.=0.07194, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9006, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

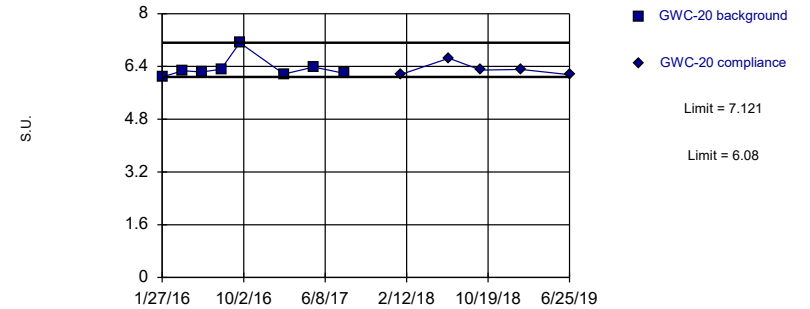


Background Data Summary: Mean=6.02, Std. Dev.=0.1401, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9811, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Non-parametric

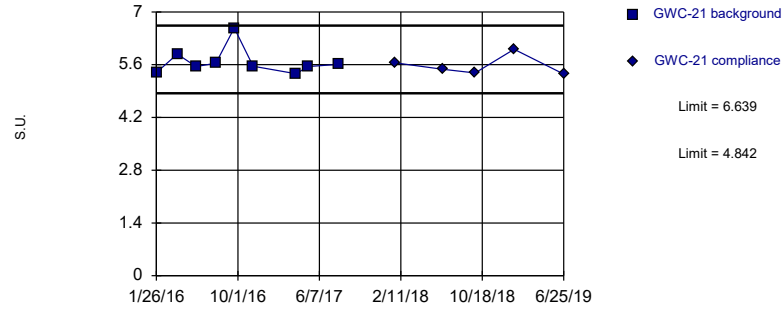


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

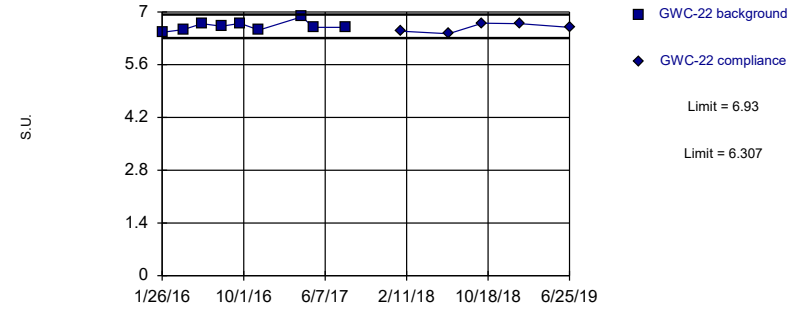


Background Data Summary (based on natural log transformation): Mean=1.735, Std. Dev.=0.06166, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7668, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

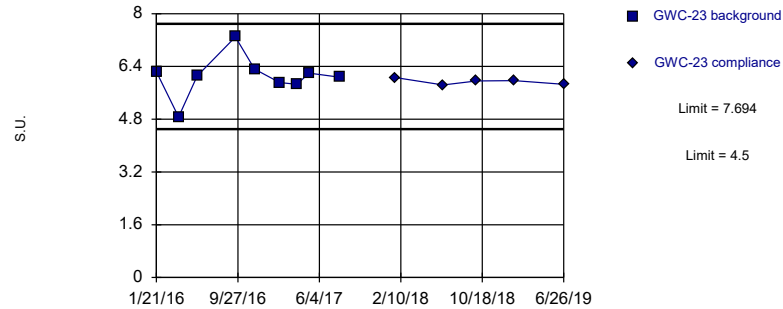


Background Data Summary: Mean=6.619, Std. Dev.=0.1218, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

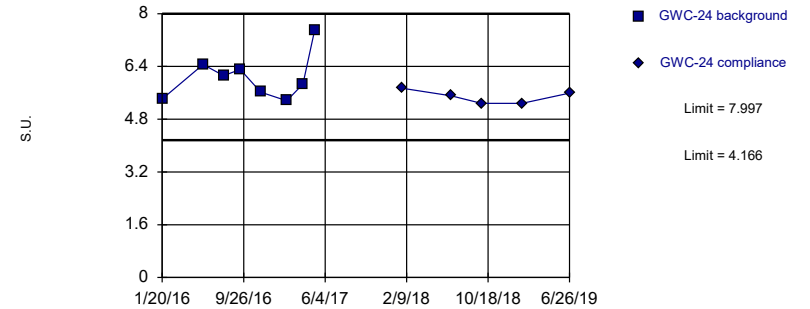


Background Data Summary: Mean=6.097, Std. Dev.=0.6239, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8793, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

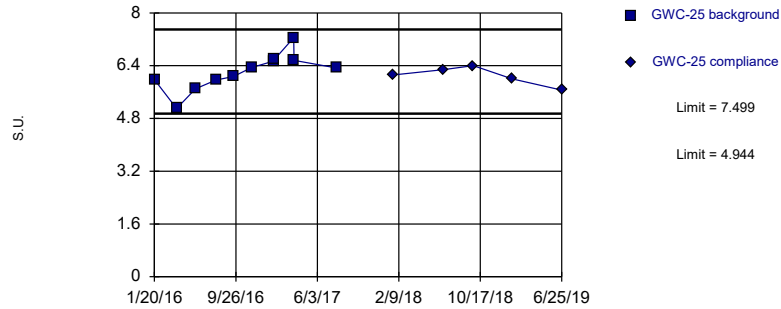


Background Data Summary: Mean=6.081, Std. Dev.=0.7008, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9026, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:18 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

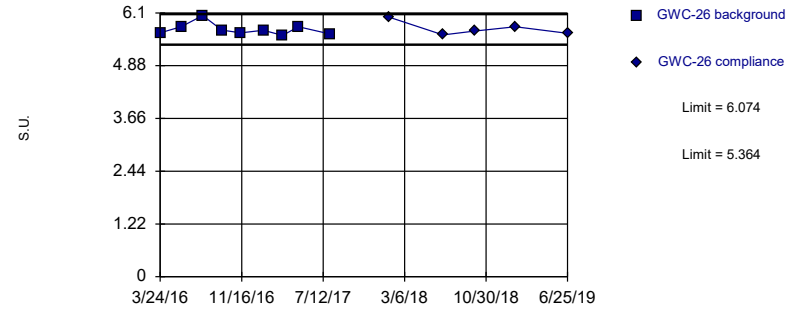


Background Data Summary: Mean=6.221, Std. Dev.=0.558, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.792. Kappa = 2.289 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

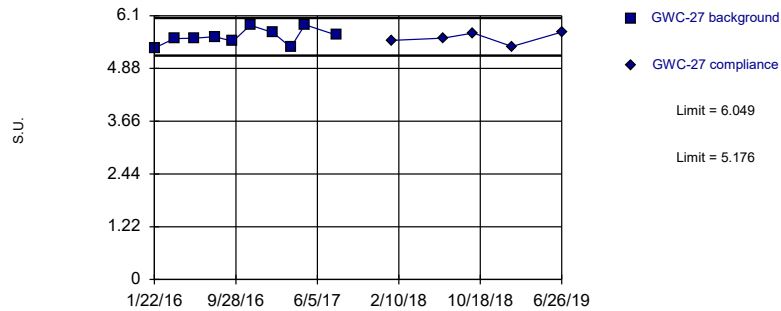


Background Data Summary: Mean=5.719, Std. Dev.=0.1386, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8363, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

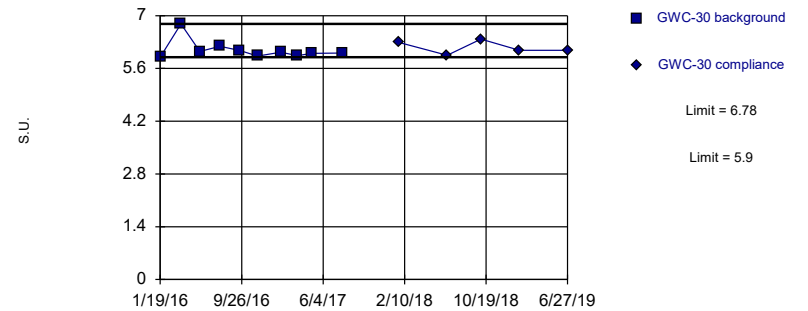


Background Data Summary: Mean=5.612, Std. Dev.=0.1829, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.941, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Non-parametric

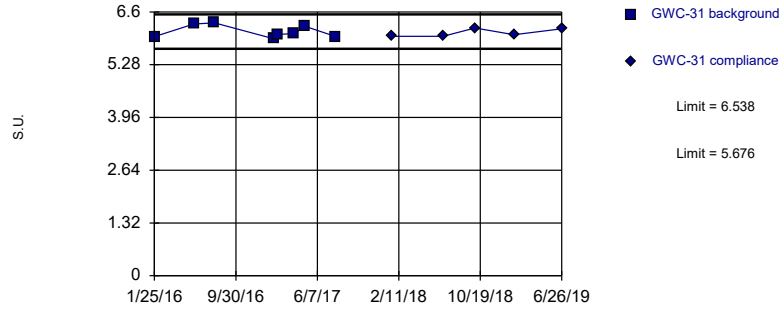


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 10 background values. Well-constituent pair annual alpha = 0.01374. Individual comparison alpha = 0.00688 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

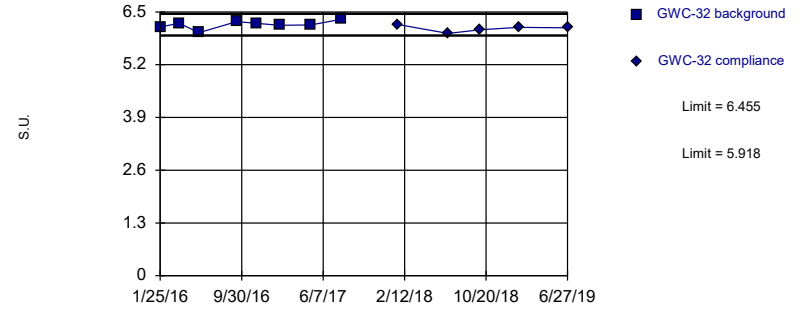


Background Data Summary: Mean=6.107, Std. Dev.=0.1577, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8673, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

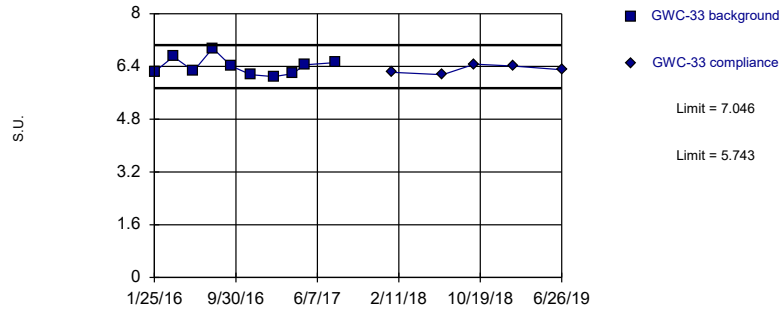


Background Data Summary: Mean=6.186, Std. Dev.=0.0983, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9382, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

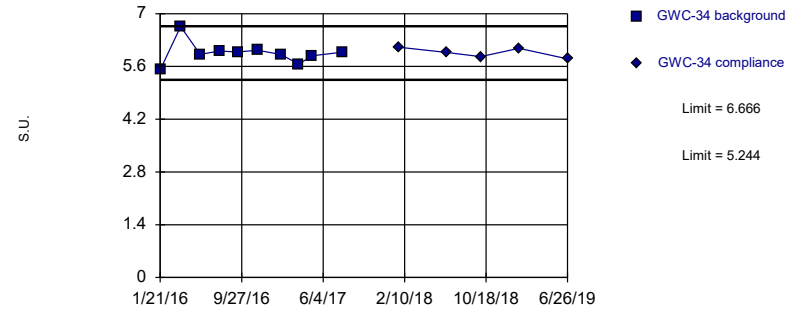


Background Data Summary: Mean=6.395, Std. Dev.=0.2731, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.915, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

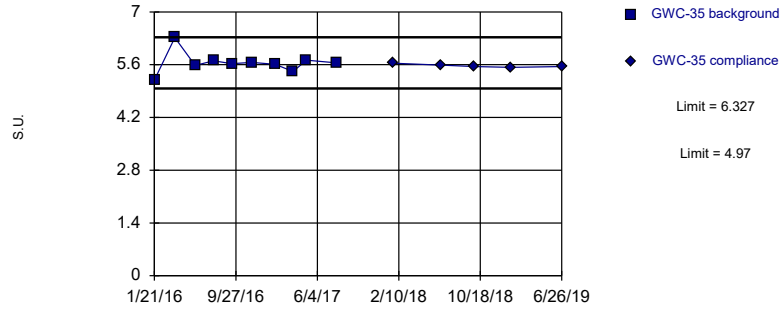


Background Data Summary: Mean=5.955, Std. Dev.=0.2981, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.839, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

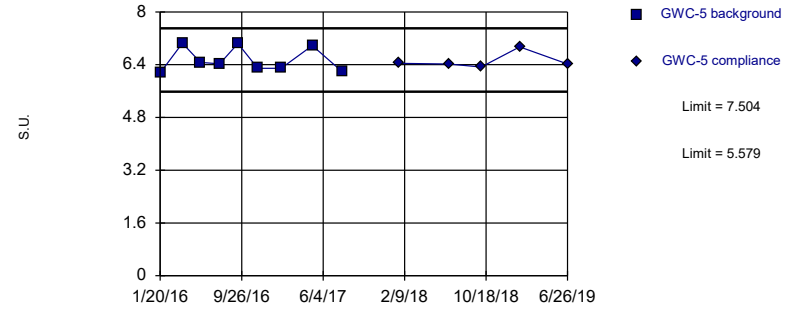


Background Data Summary: Mean=5.648, Std. Dev.=0.2844, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8362, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

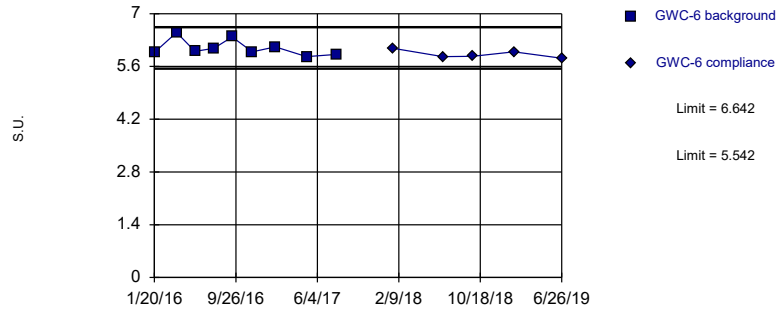


Background Data Summary: Mean=6.542, Std. Dev.=0.3761, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8199, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

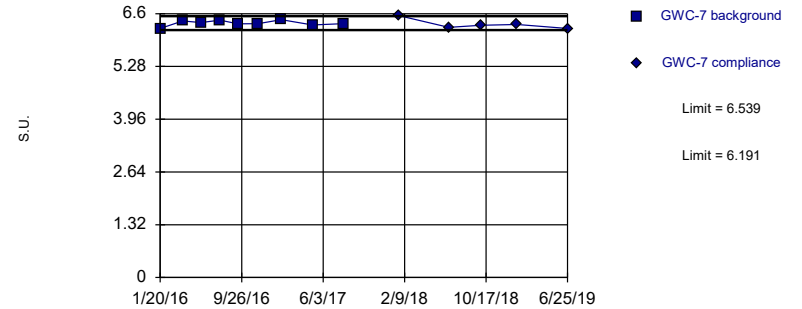


Background Data Summary: Mean=6.092, Std. Dev.=0.2149, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8657, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

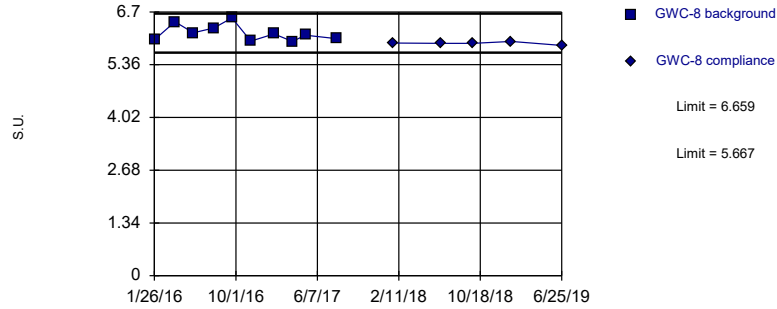


Background Data Summary: Mean=6.365, Std. Dev.=0.06791, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9294, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

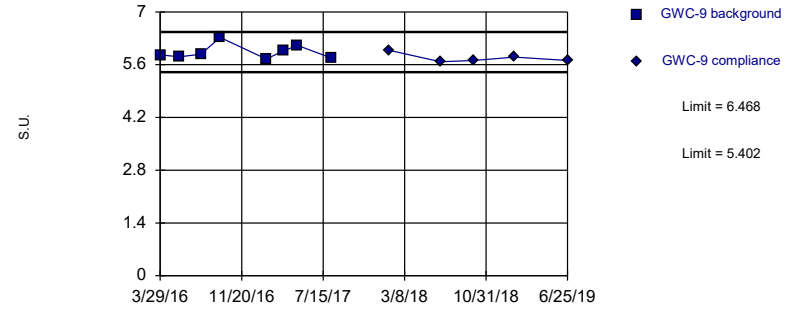


Background Data Summary: Mean=6.163, Std. Dev.=0.2079, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.894, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

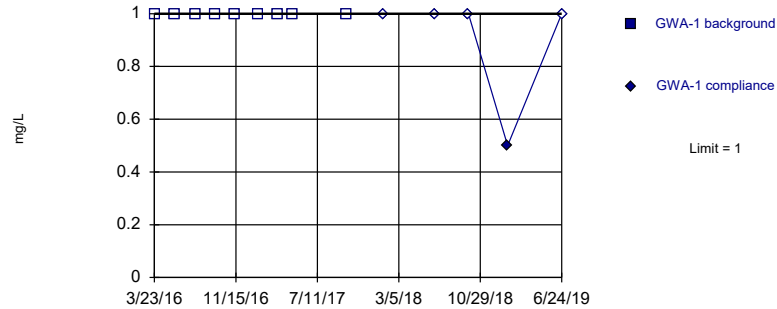


Background Data Summary: Mean=5.935, Std. Dev.=0.1949, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.868, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

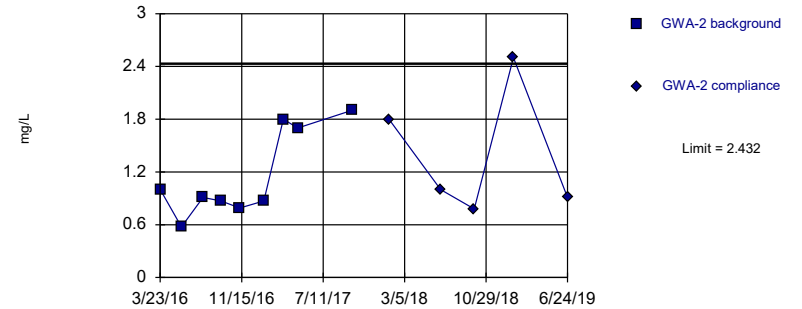


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

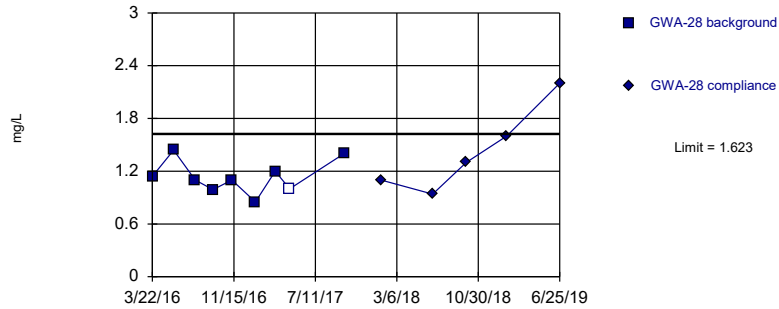


Background Data Summary: Mean=1.157, Std. Dev.=0.4978, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.831, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Sulfate  
Intrawell Parametric

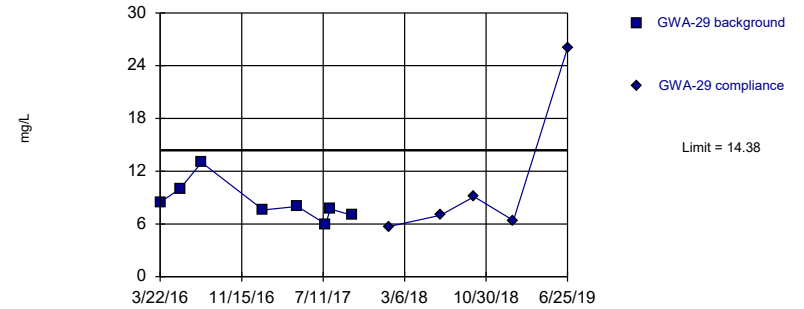


Background Data Summary: Mean=1.136, Std. Dev.=0.1905, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9451, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Sulfate  
Intrawell Parametric

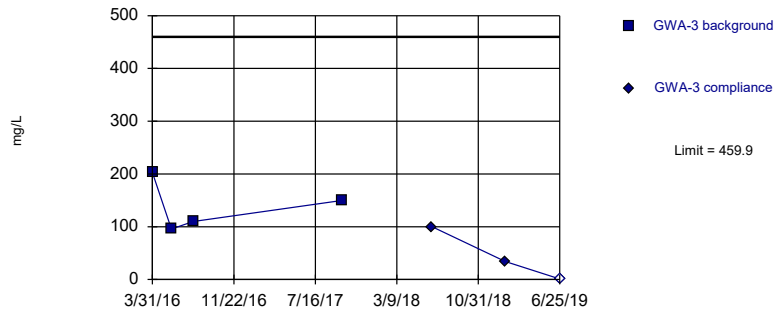


Background Data Summary: Mean=8.471, Std. Dev.=2.161, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8766, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

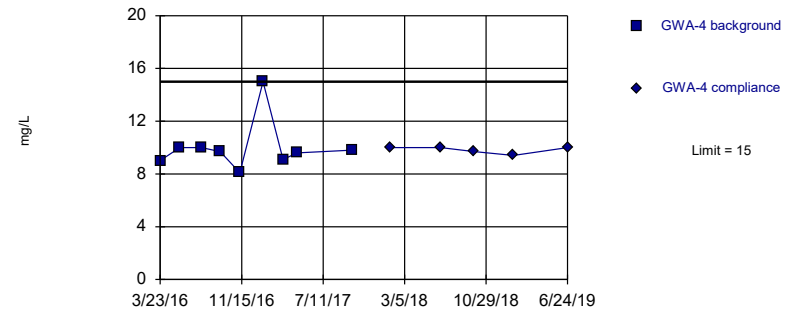


Background Data Summary: Mean=139.7, Std. Dev.=48.06, n=4. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9337, critical = 0.687. Kappa = 6.664 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric



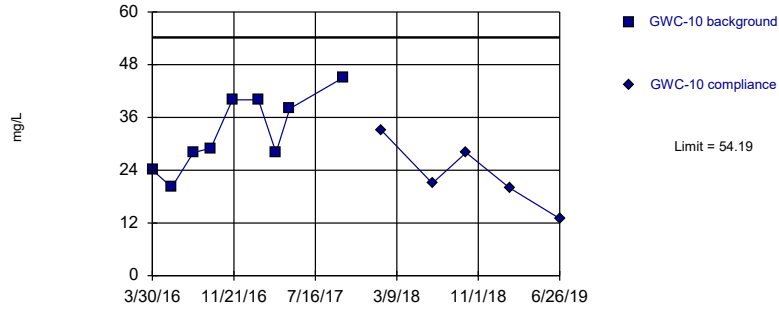
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Sulfate  
Intrawell Parametric

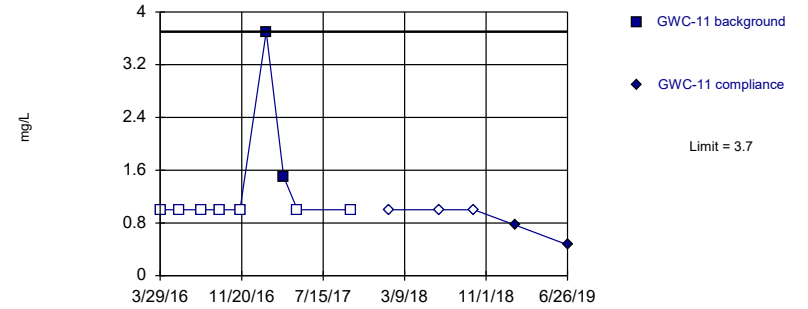


Background Data Summary: Mean=32.46, Std. Dev.=8.49, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9293, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

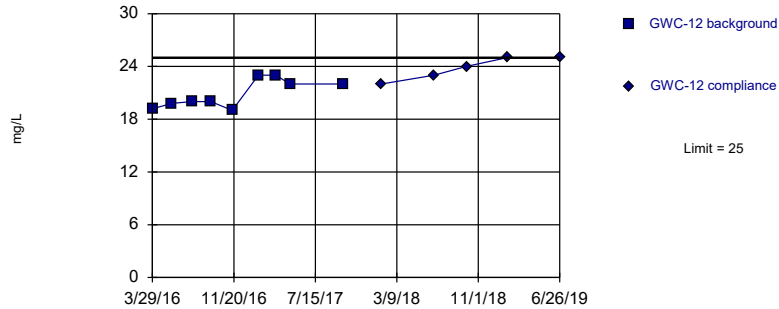


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Sulfate  
Intrawell Parametric

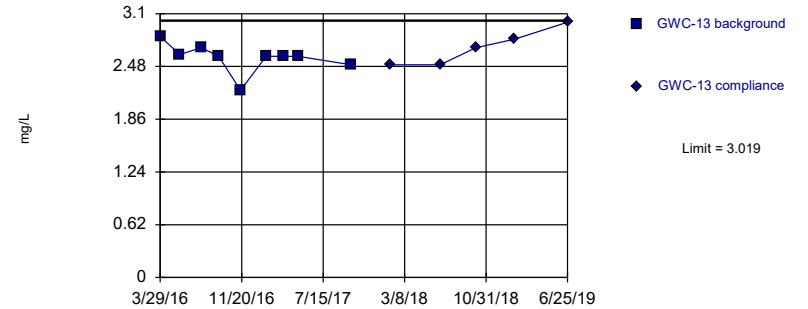


Background Data Summary: Mean=20.89, Std. Dev.=1.605, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8624, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

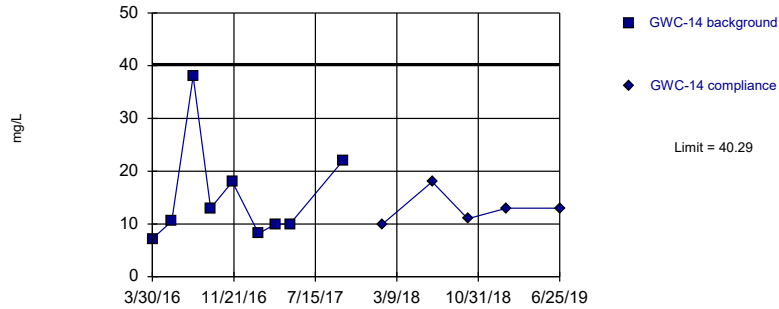


Background Data Summary: Mean=2.584, Std. Dev.=0.1701, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8387, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

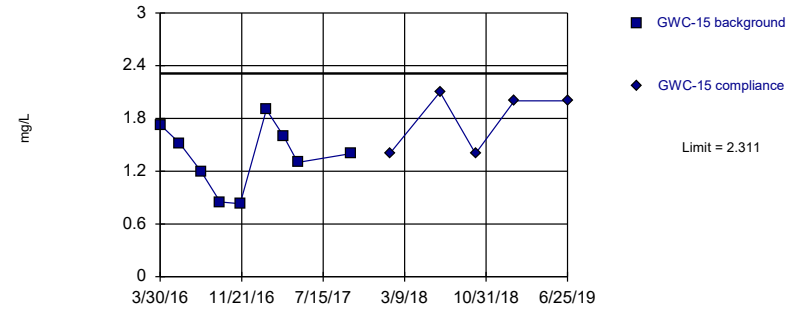


Background Data Summary: Mean=15.21, Std. Dev.=9.797, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7801, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:19 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

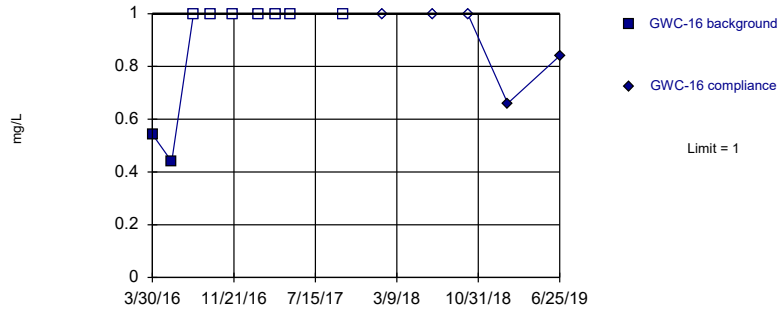


Background Data Summary: Mean=1.37, Std. Dev.=0.3678, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9523, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

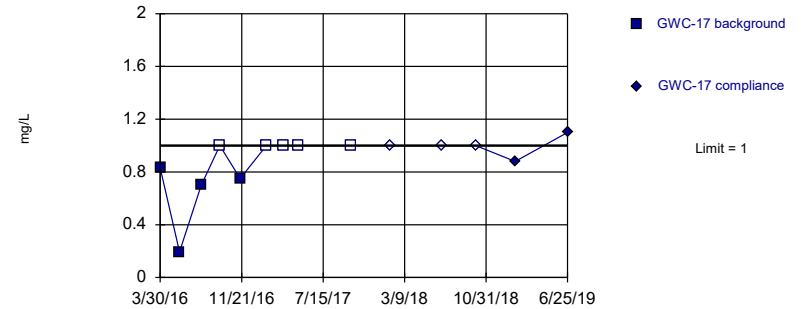


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Sulfate  
Intrawell Non-parametric

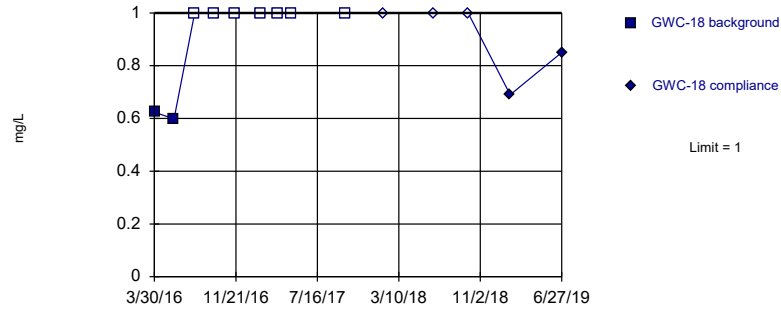


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

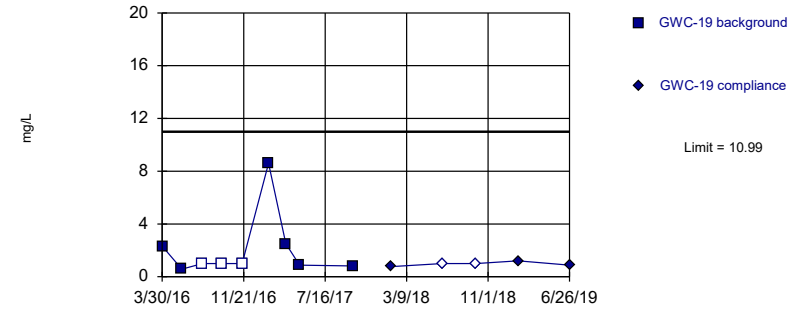


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

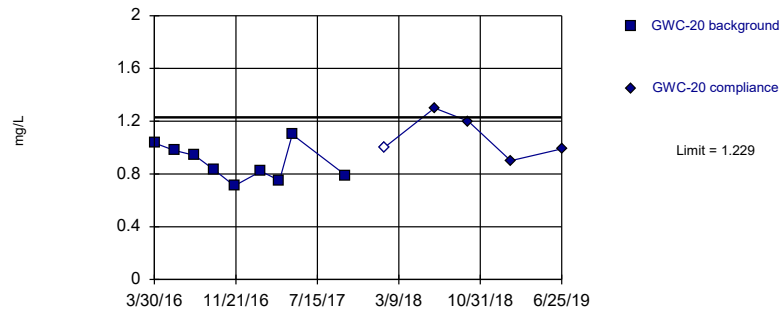


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=0.236, Std. Dev.=0.8444, n=9, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8357, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

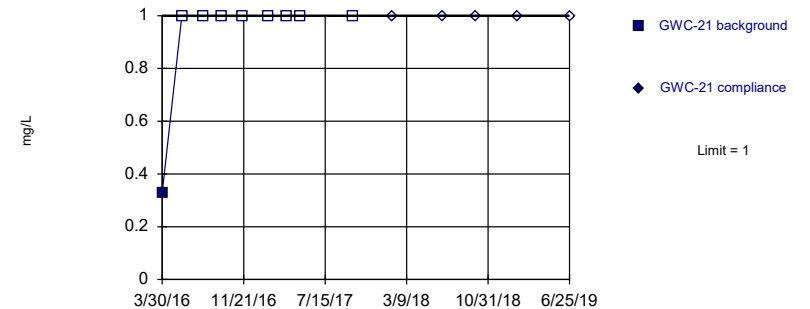


Background Data Summary: Mean=0.8838, Std. Dev.=0.135, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9435, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

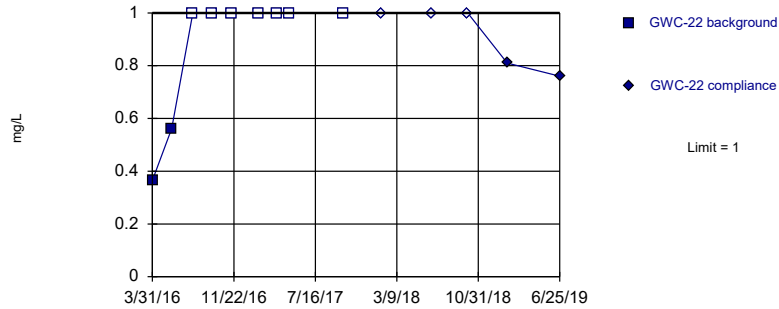


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

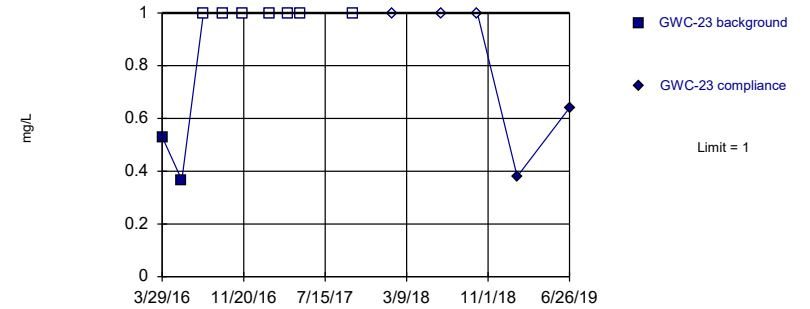


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

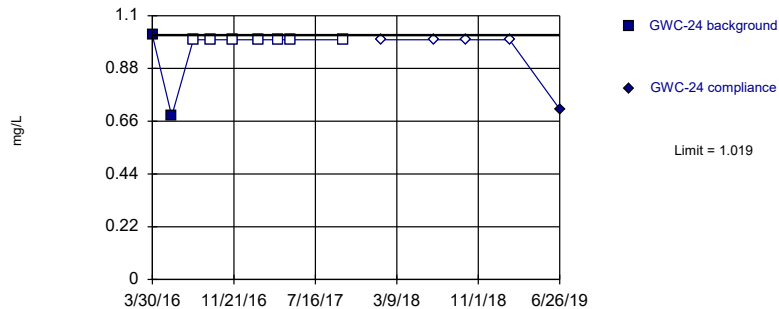


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

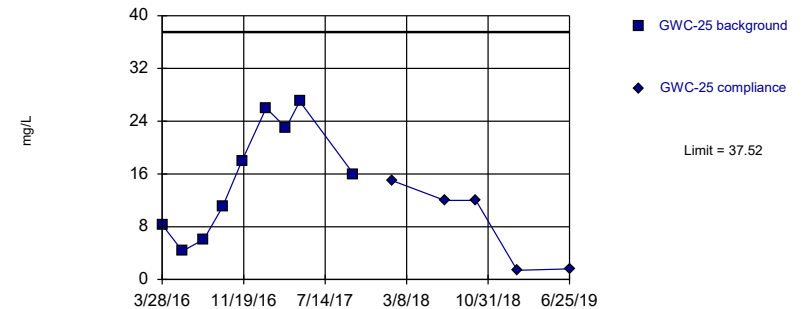


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

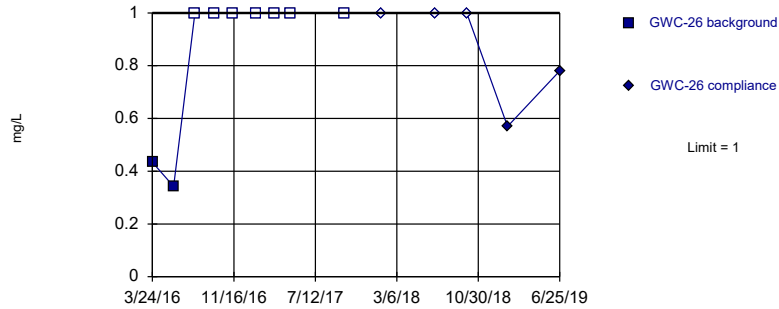


Background Data Summary: Mean=15.53, Std. Dev.=8.593, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9254, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

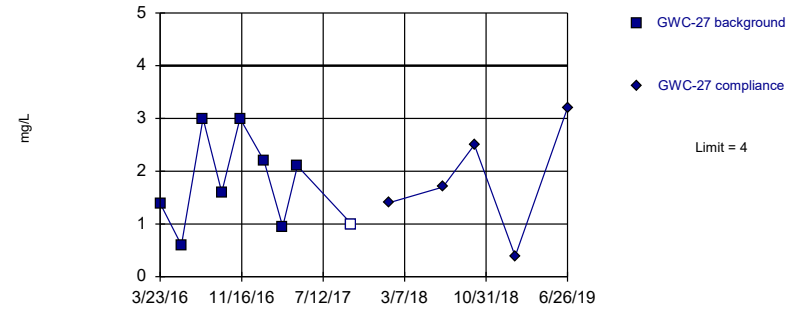


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

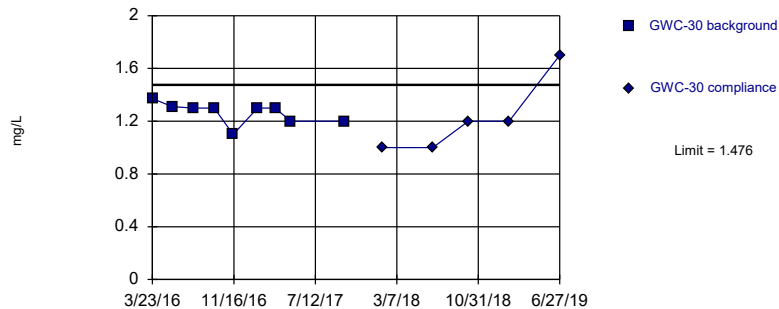


Background Data Summary: Mean=1.76, Std. Dev.=0.8754, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9268, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Sulfate  
Intrawell Parametric

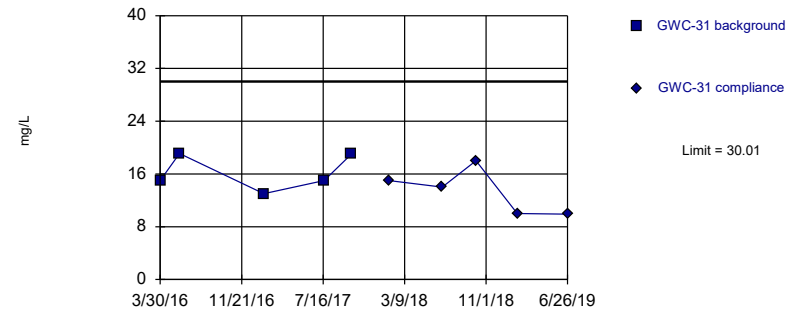


Background Data Summary: Mean=1.265, Std. Dev.=0.08234, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8612, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

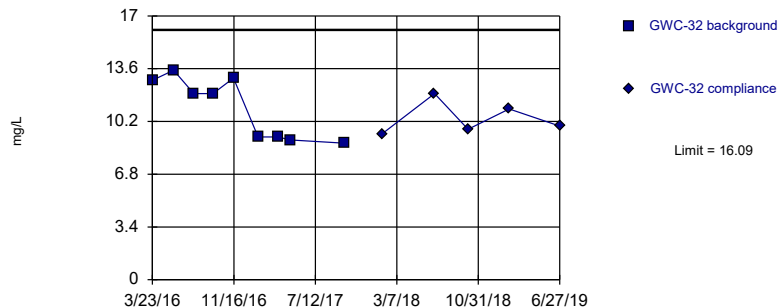


Background Data Summary: Mean=16.22, Std. Dev.=2.708, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8586, critical = 0.686. Kappa = 5.09 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

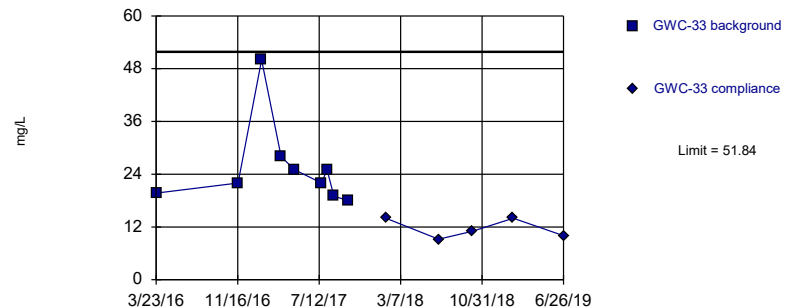


Background Data Summary: Mean=11.06, Std. Dev.=1.967, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8243, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

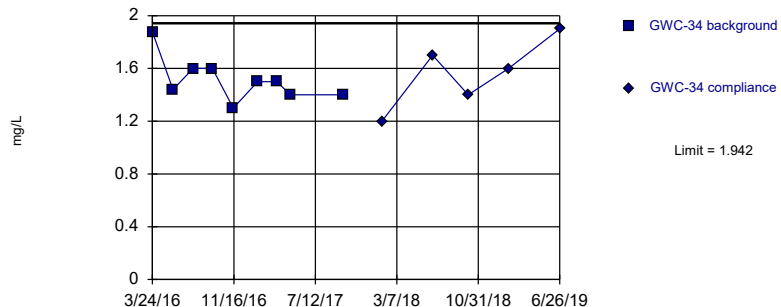


Background Data Summary (based on cube root transformation): Mean=2.907, Std. Dev.=0.3211, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7784, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

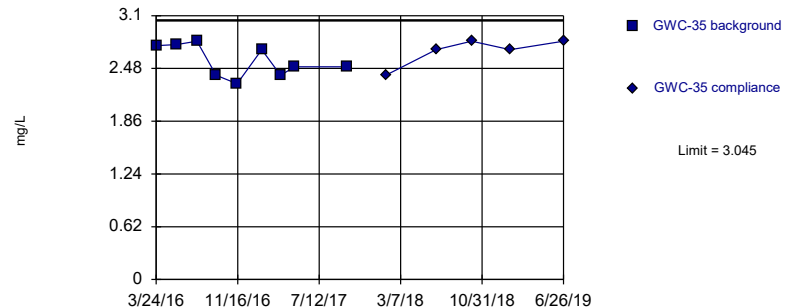


Background Data Summary: Mean=1.513, Std. Dev.=0.1677, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9018, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

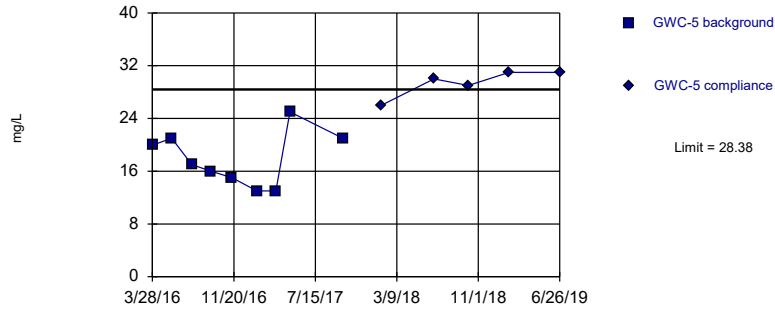


Background Data Summary: Mean=2.568, Std. Dev.=0.1864, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8951, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Sulfate Intrawell Parametric

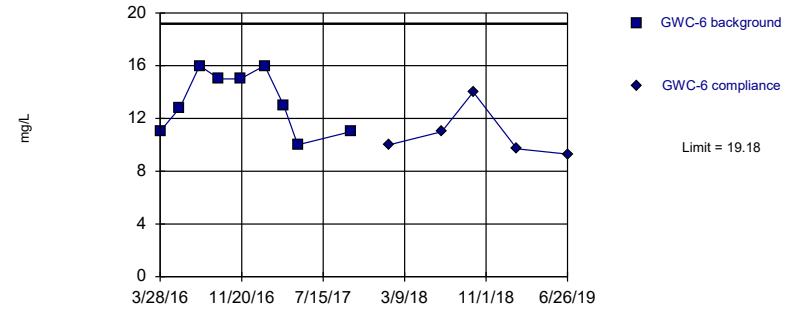


Background Data Summary: Mean=17.88, Std. Dev.=4.102, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

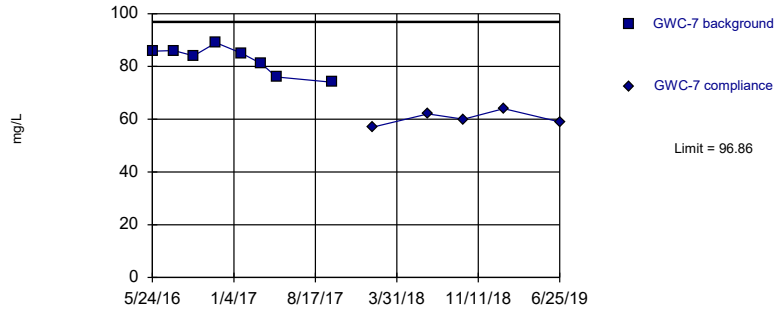


Background Data Summary: Mean=13.32, Std. Dev.=2.291, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8994, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

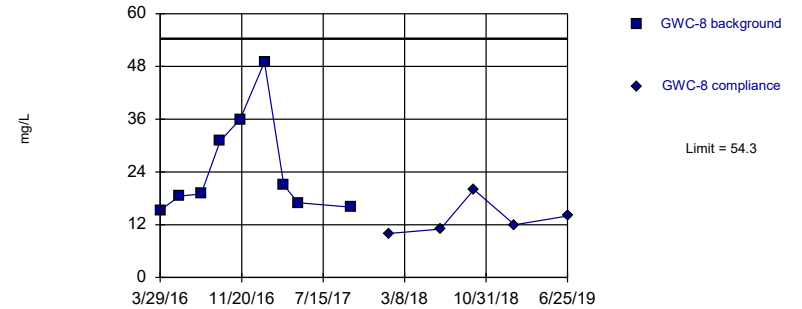


Background Data Summary: Mean=82.6, Std. Dev.=5.218, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9053, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

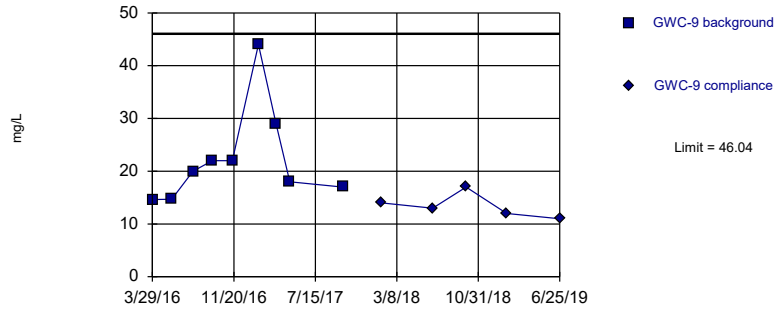


Background Data Summary: Mean=24.76, Std. Dev.=11.54, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8074, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric

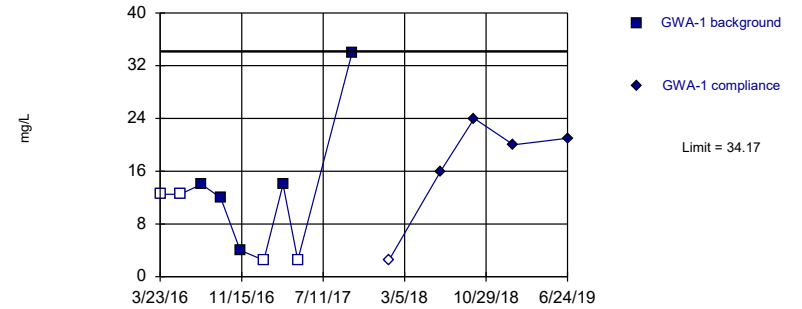


Background Data Summary: Mean=22.37, Std. Dev.=9.25, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7934, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric



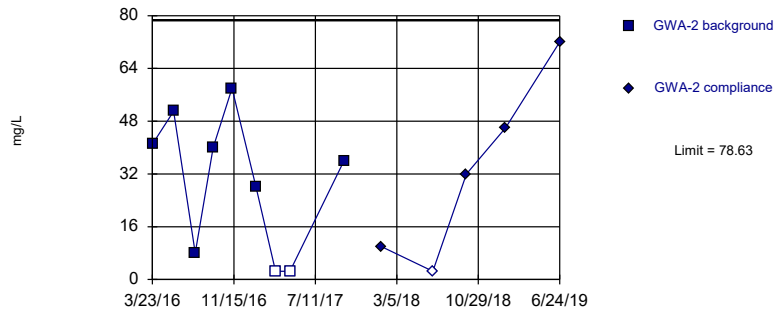
Background Data Summary (after Kaplan-Meier Adjustment): Mean=10.3, Std. Dev.=9.329, n=9, 44.44% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8013, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:20 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric

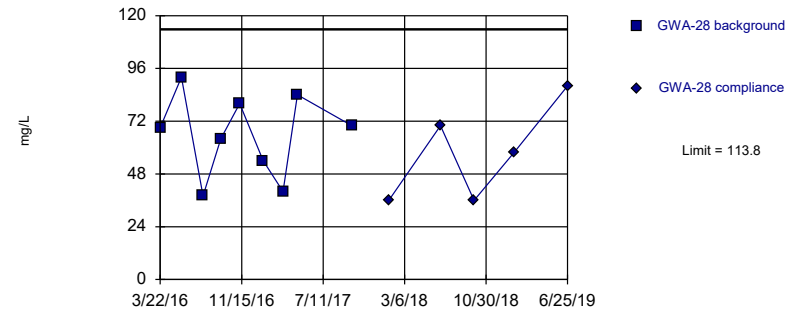


Background Data Summary (after Kaplan-Meier Adjustment): Mean=30.22, Std. Dev.=18.91, n=9, 22.22% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.903, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric



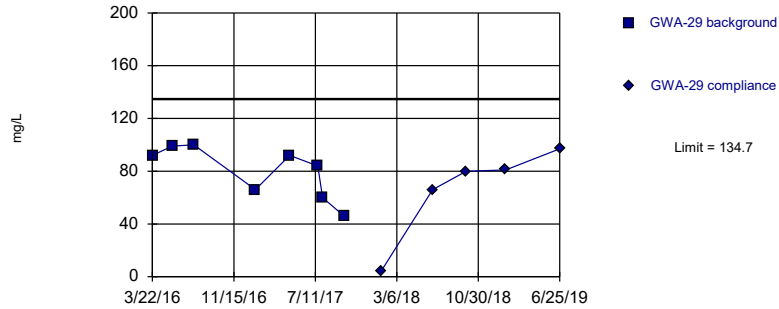
Background Data Summary: Mean=65.67, Std. Dev.=18.8, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

**Total Dissolved Solids**  
Intrawell Parametric

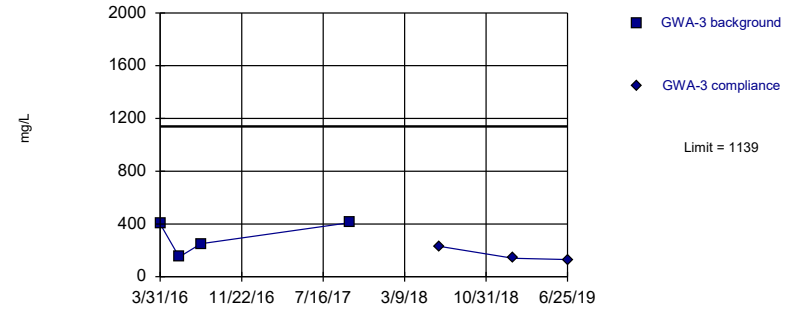


Background Data Summary: Mean=79.88, Std. Dev.=20.06, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8875, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric

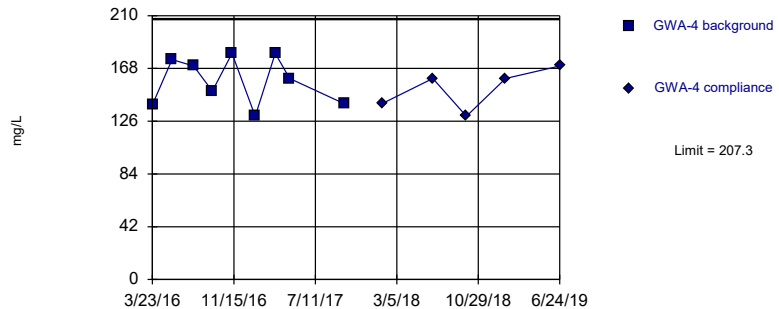


Background Data Summary: Mean=302.8, Std. Dev.=125.5, n=4. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8803, critical = 0.687. Kappa = 6.664 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric

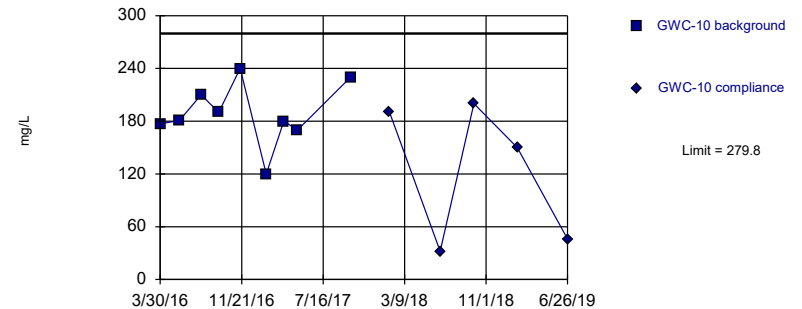


Background Data Summary: Mean=158.2, Std. Dev.=19.16, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9046, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric

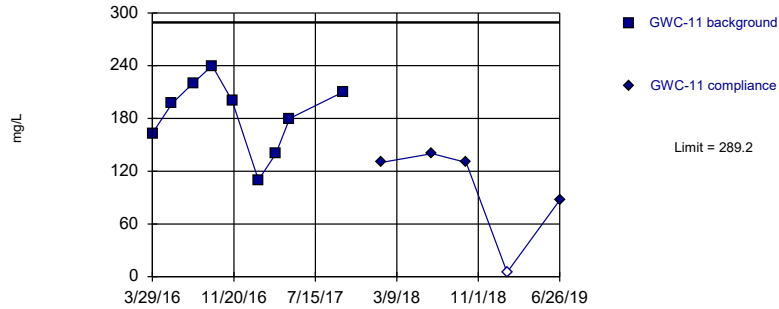


Background Data Summary: Mean=188.7, Std. Dev.=35.59, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9397, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

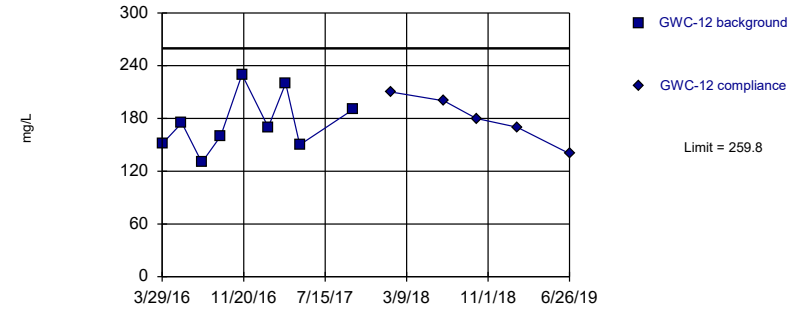


Background Data Summary: Mean=184.4, Std. Dev.=40.93, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

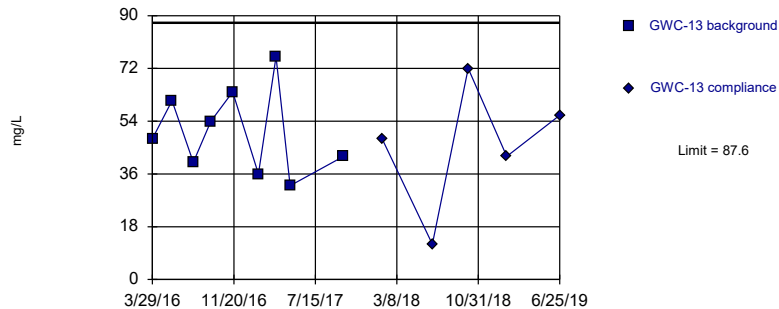


Background Data Summary: Mean=175.1, Std. Dev.=33.07, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9404, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

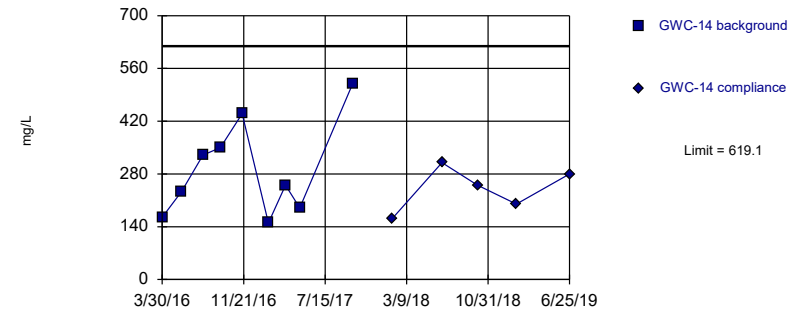


Background Data Summary: Mean=50.33, Std. Dev.=14.56, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

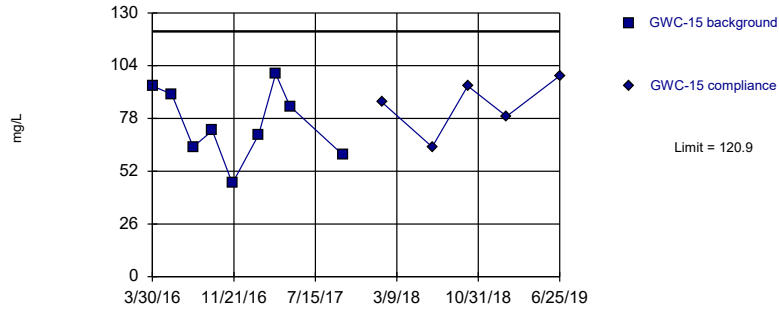


Background Data Summary: Mean=292, Std. Dev.=127.8, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9263, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

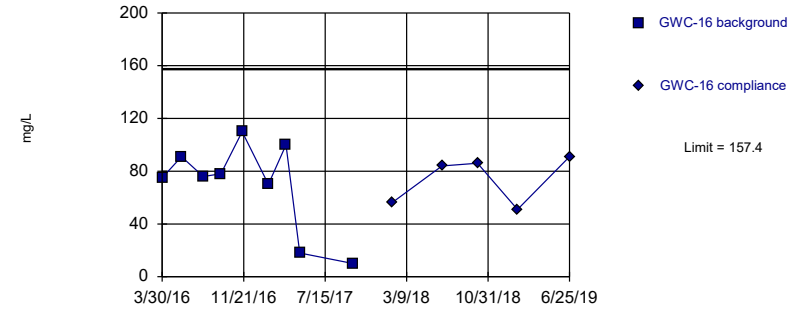


Background Data Summary: Mean=75.56, Std. Dev.=17.71, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9678, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

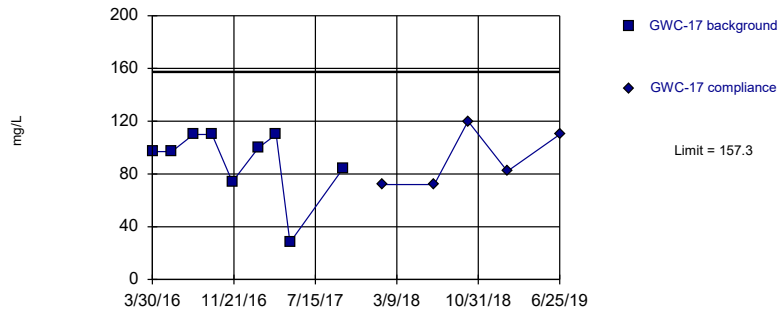


Background Data Summary: Mean=69.78, Std. Dev.=34.22, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8629, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

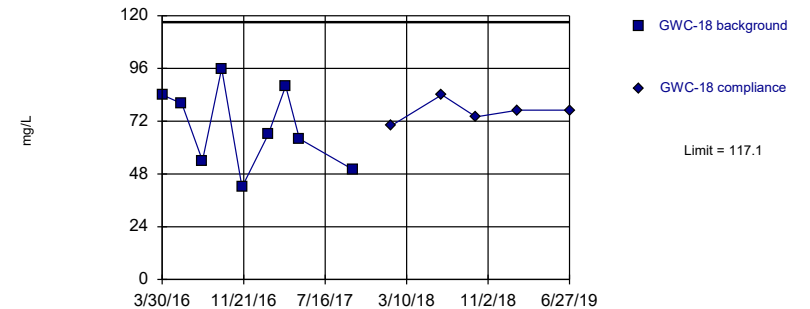


Background Data Summary: Mean=90, Std. Dev.=26.3, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7725, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

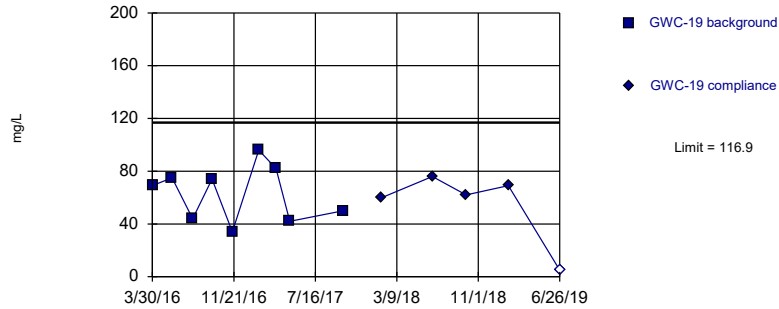


Background Data Summary: Mean=69.33, Std. Dev.=18.65, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

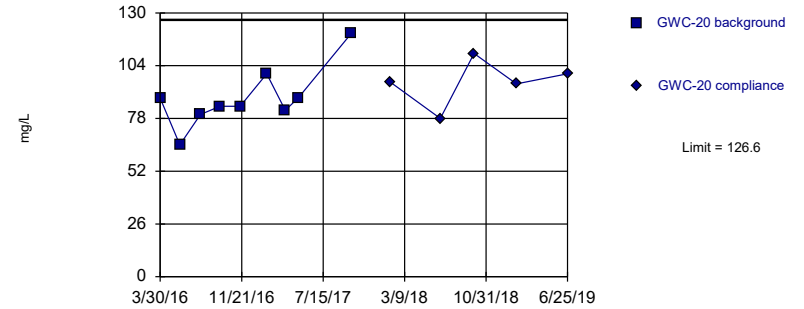


Background Data Summary: Mean=62.89, Std. Dev.=21.1, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

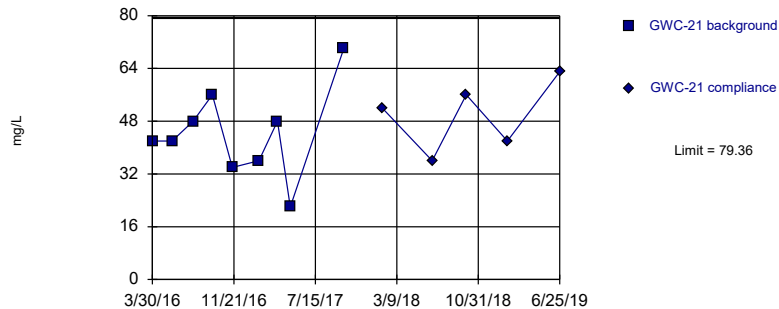


Background Data Summary: Mean=87.89, Std. Dev.=15.12, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.894, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

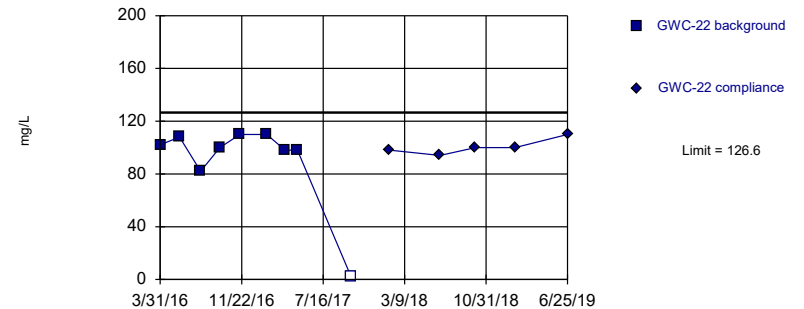


Background Data Summary: Mean=44.22, Std. Dev.=13.73, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.975, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

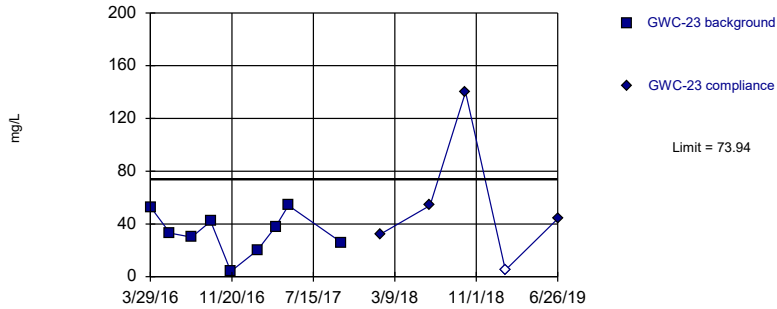


Background Data Summary (based on cube transformation): Mean=935188, Std. Dev.=427298, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

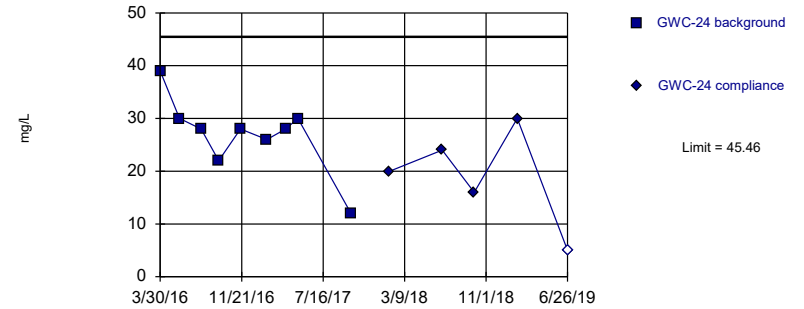


Background Data Summary: Mean=33.33, Std. Dev.=15.87, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9641, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

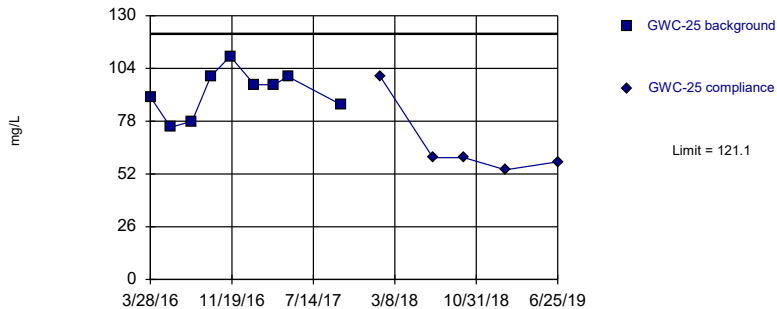


Background Data Summary: Mean=27, Std. Dev.=7.211, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8939, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

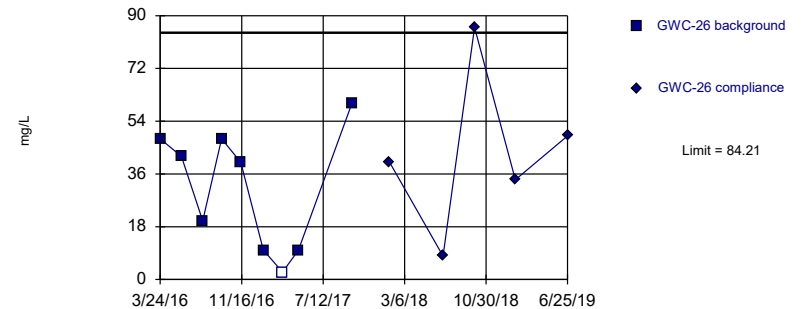


Background Data Summary: Mean=92.33, Std. Dev.=11.22, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9583, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

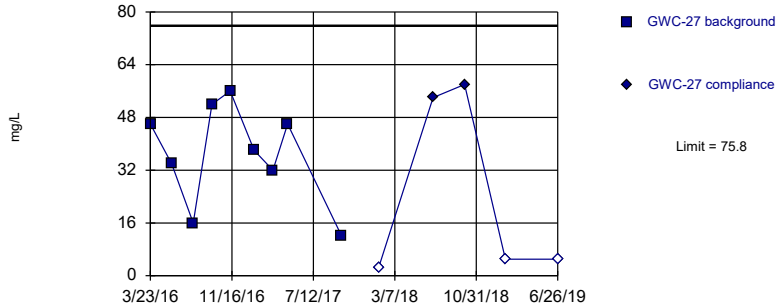


Background Data Summary: Mean=31.17, Std. Dev.=20.72, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9054, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

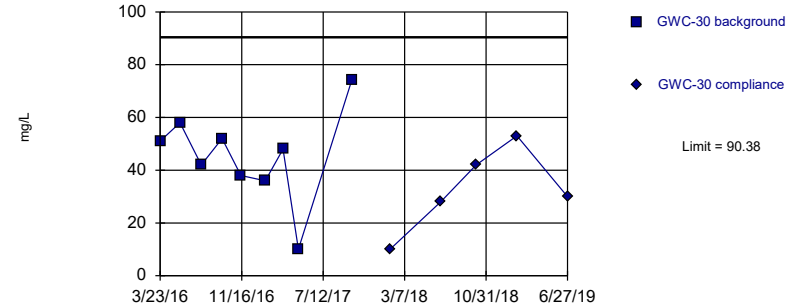


Background Data Summary: Mean=36.89, Std. Dev.=15.2, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.931, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

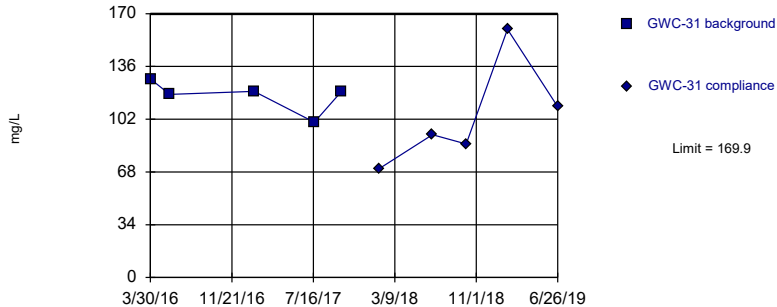


Background Data Summary: Mean=45.44, Std. Dev.=17.56, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

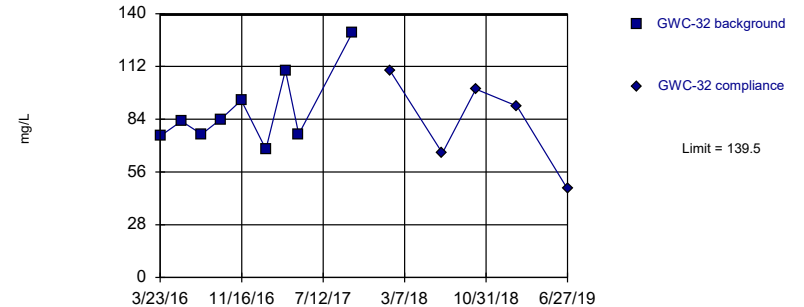


Background Data Summary: Mean=117.2, Std. Dev.=10.35, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.85, critical = 0.686. Kappa = 5.09 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:21 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

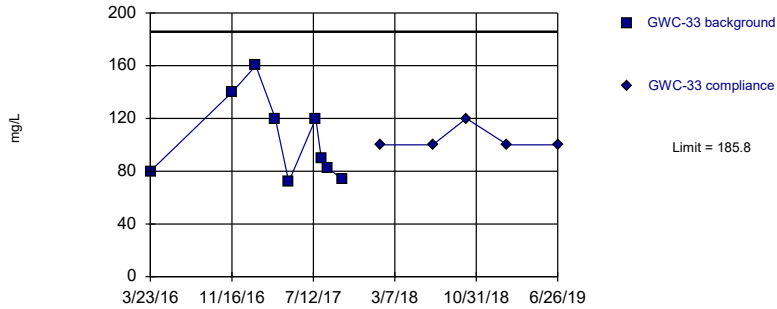


Background Data Summary: Mean=88.44, Std. Dev.=19.94, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.856, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

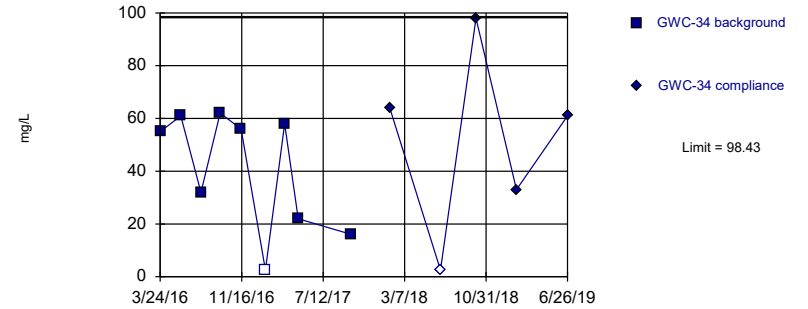


Background Data Summary: Mean=104.2, Std. Dev.=31.87, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8837, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric



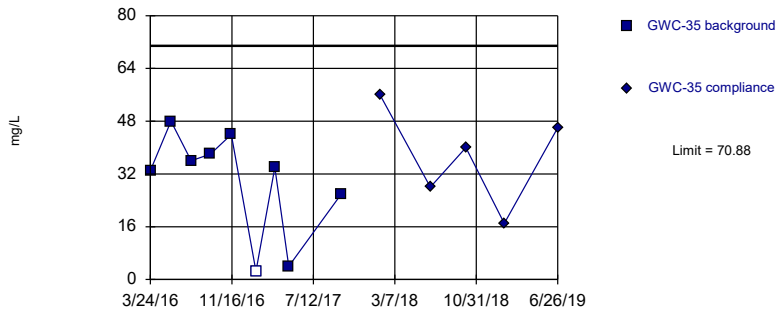
Background Data Summary: Mean=40.5, Std. Dev.=22.63, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.85, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Total Dissolved Solids  
Intrawell Parametric

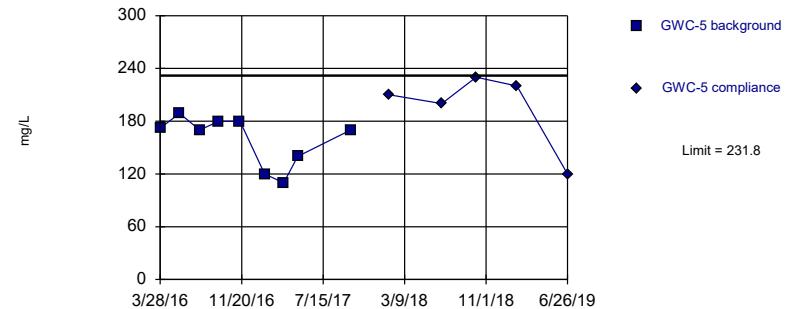


Background Data Summary: Mean=29.5, Std. Dev.=16.17, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8606, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

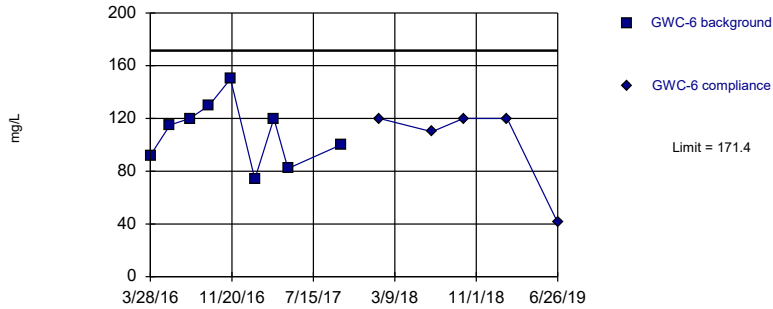


Background Data Summary: Mean=159, Std. Dev.=28.45, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8472, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

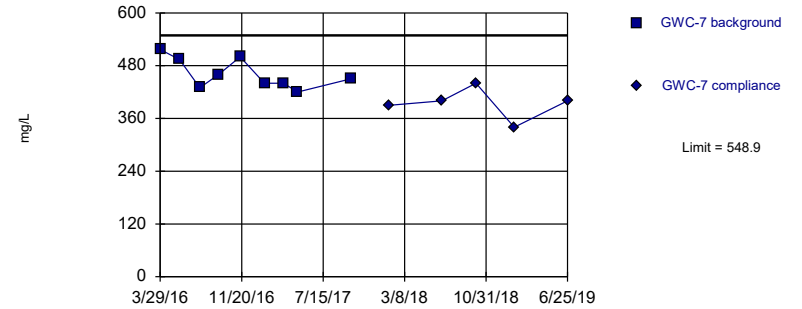


Background Data Summary: Mean=109.2, Std. Dev.=24.3, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

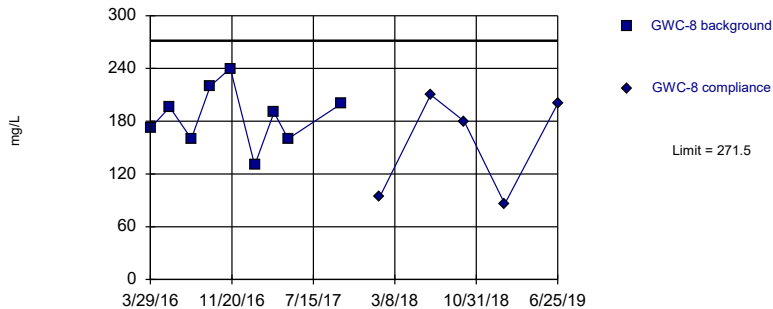


Background Data Summary: Mean=461.2, Std. Dev.=34.26, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9088, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

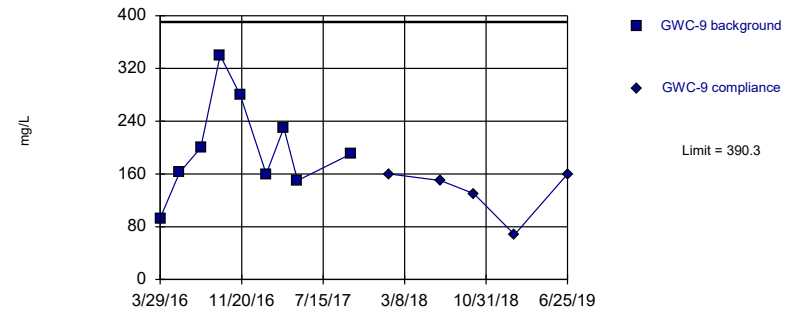


Background Data Summary: Mean=185.3, Std. Dev.=33.66, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9833, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric



Background Data Summary: Mean=200.6, Std. Dev.=74.15, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9557, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 7/29/2019 3:22 PM View: State CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



# Prediction Limit

Constituent: pH Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29
1/19/2016							5.92	
1/20/2016			5.47					
1/21/2016	5.03							
1/22/2016					6.27			
3/22/2016					6.72		5.92	
3/23/2016	5.56		5.85					
5/19/2016							5.95	
5/20/2016	5.62							
5/23/2016					6.29			
5/24/2016			5.86					
7/21/2016	5.500376						6.049508	
7/25/2016					6.178217			
7/26/2016			5.808275					
9/15/2016	5.31						6.444541	
9/16/2016					6.545359			
11/9/2016					6			
11/10/2016			5.63					
11/11/2016	5.4							
1/17/2017					6.09			
1/19/2017	5.73		5.63					
3/15/2017							5.86	
3/16/2017	5.25				5.98			
3/17/2017			5.68					
4/27/2017					5.96		5.85	
4/28/2017	5.35		5.77					
8/1/2017					6.01 (D)		5.86 (D)	
8/2/2017			5.67 (D)					
8/3/2017	5.32 (D)							
1/19/2018		5.39 (D)		5.68 (D)		6.15 (D)		5.83 (D)
6/19/2018		5.27		5.84		5.96		5.77
9/25/2018		5.27		5.52		5.94		5.92
1/17/2019		5.43		5.81				
1/18/2019								5.86
1/21/2019						5.92		
6/24/2019		5.3		5.75				
6/25/2019						6.03		5.96

# Prediction Limit

Constituent: pH Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12
1/25/2016			6.27					
1/26/2016					6.11		7.37	
3/29/2016					6.59		7.53	
5/19/2016	6.45							
5/25/2016			6.44		6.31		7.44	
7/21/2016	6.449699							
7/25/2016					6.287783			
7/27/2016			6.364588					
9/14/2016	6.396439							
9/15/2016							6.283325	
9/16/2016			6.202937					
9/19/2016					6.027665			
11/10/2016	6.19							
11/16/2016					6.04		6.99	
11/17/2016			5.95					
1/17/2017	6.18							
1/31/2017			6.47		5.94		7.065 (D)	
3/16/2017	6.1							
3/23/2017					6.06		7.41	
4/28/2017	6.51							
5/2/2017			6.69		5.95			
5/3/2017							7.32	
8/2/2017	6.23 (D)							
8/7/2017					6.11 (D)		7.25 (D)	
8/8/2017			6.67 (D)					
1/22/2018		6.3 (D)						
1/24/2018				6.47 (D)		6.17 (D)		7.02 (D)
6/19/2018		6.2						
6/20/2018						5.92		
6/21/2018				5.76				
6/26/2018								7.43
9/25/2018		6.21						
9/27/2018				5.5		5.97		
9/28/2018								7.3
1/17/2019		6.29						
1/24/2019						6.25		
1/25/2019								7.49
1/31/2019				5.75				
6/24/2019		6.12						
6/26/2019				5.78		5.97		7.28

# Prediction Limit

Constituent: pH Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16
1/27/2016	6.52		5.88		6.67		6.03	
3/29/2016	7.49							
3/30/2016			6.01		6.7			
5/25/2016	6.76		5.52		6.52		6.22	
7/26/2016	6.859244		6.066915		6.719922			
7/27/2016							6.30178	
9/15/2016	7.565879		5.220961					
9/20/2016					6.519229			
11/17/2016	6.63		5.05		6.54		5.9	
2/1/2017			5.5		6.56		6.14	
3/23/2017	6.85		5.41					
3/24/2017							5.99	
5/3/2017	6.57		5.71		6.5		6.06	
8/4/2017	6.77 (D)				6.55 (D)			
8/7/2017			5.03 (D)				6.12 (D)	
1/25/2018		6.63 (D)		5.64 (D)		6.45 (D)		6.1 (D)
6/20/2018		6.66		5.05		7.24		6.08
10/1/2018				5.59		6.5		6.12
10/2/2018		6.91						
1/22/2019		6.61		5.72		6.48		
1/25/2019								6.05
6/25/2019		6.54		5.49		6.43		6.08

# Prediction Limit

Constituent: pH Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20
1/27/2016	6.27				6.14		6.08	
3/30/2016	6.22		6.03		6.1		6.27	
5/25/2016	6.24							
5/26/2016			6.03		5.99		6.23	
7/25/2016			6.066342		6.063209		6.3145	
7/27/2016	6.321385							
9/19/2016			6.040669		6.276656			
9/20/2016							7.120962	
11/17/2016	6.11				5.97			
2/1/2017	6.18		5.98					
2/2/2017							6.17	
3/24/2017	6.34		5.85		5.82			
5/3/2017	6.09		5.92		5.89			
5/4/2017							6.38	
8/7/2017	6.16 (D)		5.98 (D)		5.93 (D)		6.19 (D)	
1/25/2018		6.2 (D)		6.03 (D)		5.89 (D)		
1/26/2018								6.16 (D)
6/21/2018				5.87		5.78		6.65
6/26/2018		6.1						
9/27/2018						5.82		6.29
9/28/2018				5.77				
10/2/2018		6.16						
1/24/2019		6.31						
1/28/2019				6.03		5.96		6.31
6/25/2019		6.12						6.15
6/26/2019						5.78		
6/27/2019				5.78				

# Prediction Limit

Constituent: pH Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24
1/20/2016							5.41	
1/21/2016					6.24			
1/26/2016	5.39		6.46					
3/29/2016					4.87			
3/30/2016	5.88							
3/31/2016			6.53					
5/25/2016					6.11		6.46	
5/26/2016	5.55		6.69					
7/26/2016	5.64011		6.620398					
7/27/2016							6.119047	
9/16/2016							6.310241	
9/20/2016	6.575025		6.696588		7.295281			
11/17/2016	5.56		6.52					
11/18/2016					6.32		5.62	
2/3/2017					5.91			
2/6/2017							5.36	
3/28/2017	5.36		6.87		5.86		5.87	
5/3/2017			6.59				7.5	
5/4/2017	5.55				6.2			
8/7/2017	5.61 (D)							
8/8/2017			6.59 (D)		6.07 (D)			
1/25/2018				6.49 (D)		6.06 (D)		5.74 (D)
1/26/2018		5.65 (D)						
6/20/2018		5.48		6.42		5.84		
6/27/2018								5.51
9/27/2018		5.38						
9/28/2018								5.28
10/1/2018				6.7		5.96		
1/24/2019		6.01		6.69				
1/25/2019						5.97		
1/31/2019								5.28
6/25/2019		5.35		6.59				
6/26/2019						5.86		5.59



# Prediction Limit

Constituent: pH Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33	GWC-34	GWC-34
1/21/2016							5.51	
1/25/2016	5.98		6.13		6.23			
3/23/2016			6.22		6.7			
3/24/2016							6.66	
5/23/2016			5.99				5.92	
5/24/2016					6.26			
5/25/2016	6.3							
7/21/2016							6.008569	
7/22/2016					6.956045			
7/27/2016	6.327805							
9/15/2016							5.982305	
9/16/2016			6.260319		6.411956			
11/15/2016			6.22				6.03	
11/16/2016					6.15			
1/24/2017	5.93							
1/25/2017			6.17		6.09		5.92	
2/6/2017	6.04							
3/22/2017					6.18		5.66	
3/28/2017	6.06							
5/1/2017	6.24		6.18		6.45		5.88	
8/3/2017	5.98 (D)		6.32 (D)		6.52 (D)		5.98 (D)	
1/22/2018		5.99 (D)		6.19 (D)		6.22 (D)		
1/23/2018								6.11 (D)
6/20/2018								5.97
6/26/2018				5.97		6.15		
6/27/2018		5.99						
10/2/2018				6.06		6.47		5.86
10/3/2018		6.2						
1/28/2019								6.08
1/30/2019				6.12		6.41		
1/31/2019		6.03						
6/26/2019		6.18				6.3		5.8
6/27/2019				6.11				

# Prediction Limit

Constituent: pH Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7
1/20/2016			6.15		5.97		6.23	
1/21/2016	5.19							
3/24/2016	6.32							
3/28/2016			7.05		6.5			
3/29/2016							6.42	
5/23/2016			6.47					
5/24/2016					6		6.38	
5/25/2016	5.58							
7/21/2016	5.701591		6.424029		6.08222			
7/22/2016							6.438562	
9/15/2016	5.629095		7.042684		6.383623		6.347438	
11/15/2016	5.66		6.29					
11/16/2016					5.99		6.35	
1/26/2017	5.61		6.29		6.12		6.45	
3/22/2017	5.42							
5/2/2017	5.72		6.98		5.86		6.32	
8/3/2017	5.65 (D)		6.18 (D)		5.92 (D)			
8/4/2017							6.35 (D)	
1/23/2018		5.64 (D)		6.44 (D)		6.08 (D)		6.55 (D)
6/19/2018		5.59						
6/25/2018				6.42		5.86		6.26
9/25/2018						5.87		
10/1/2018		5.55						
10/2/2018								6.31
10/3/2018				6.33				
1/21/2019		5.53						6.33
1/30/2019				6.94		5.99		
6/25/2019								6.23
6/26/2019		5.55		6.42		5.82		



# Prediction Limit

Constituent: pH, Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1	GWA-2	GWA-2
1/26/2016	5.99							
3/23/2016					<1		1.001	
3/29/2016	6.45		5.86					
5/20/2016					<1			
5/24/2016	6.17		5.81				0.576 (J)	
7/21/2016					<1			
7/25/2016			5.876175					
7/26/2016	6.291124						0.91 (J)	
9/15/2016					<1			
9/16/2016							0.87 (J)	
9/19/2016	6.550086		6.323668					
11/10/2016							0.79 (J)	
11/11/2016					<1			
11/16/2016	5.96							
1/19/2017					<1		0.87 (J)	
1/26/2017	6.14							
1/31/2017			5.75					
3/16/2017					<1			
3/17/2017							1.8	
3/23/2017	5.95		5.97					
4/28/2017					<1		1.7	
5/2/2017	6.11		6.11					
8/7/2017	6.02 (D)		5.78 (D)					
10/3/2017							1.9	
10/4/2017					<1			
1/19/2018						<1		1.8
1/24/2018		5.91 (D)		5.98 (D)				
6/19/2018					<1			1
6/21/2018		5.9		5.68				
9/25/2018					<1			0.78 (J)
9/26/2018		5.9		5.71				
1/17/2019						0.5 (J)		2.5
1/22/2019		5.95		5.8				
6/24/2019					<1			0.91 (J)
6/25/2019		5.85		5.71				

# Prediction Limit

Constituent: Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28	GWA-29	GWA-29	GWA-3	GWA-3	GWA-4	GWA-4
3/22/2016	1.1423		8.4662					
3/23/2016							9.0208	
3/31/2016					202.982			
5/19/2016			10				10	
5/23/2016	1.44							
5/25/2016					95.7			
7/21/2016			13				10	
7/25/2016	1.1							
7/27/2016					110			
9/14/2016							9.7	
9/15/2016	0.99 (J)							
11/9/2016	1.1							
11/10/2016							8.1	
1/17/2017	0.85 (J)		7.6				15	
3/16/2017	1.2						9.1	
4/27/2017	<1		8				9.6	
7/18/2017			6					
8/1/2017			7.7					
10/3/2017	1.4		7		150		9.8	
1/19/2018		1.1		5.7				
1/22/2018								10
6/19/2018		0.94 (J)		7				10
6/20/2018						100		
9/25/2018		1.3		9.1				9.7
1/17/2019								9.4
1/18/2019				6.4		34		
1/21/2019		1.6						
6/24/2019								10
6/25/2019		2.2		26		<1		

# Prediction Limit

Constituent: Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
3/29/2016			<1		19.1889		2.8316	
3/30/2016	24.0688							
5/25/2016	20.1		<1		19.8		2.62	
7/22/2016					20			
7/25/2016			<1					
7/26/2016							2.7	
7/27/2016	28							
9/15/2016					20		2.6	
9/16/2016	29							
9/19/2016			<1					
11/16/2016			<1		19			
11/17/2016	40						2.2	
1/31/2017			3.7		23		2.6	
2/1/2017	40							
3/23/2017			1.5		23		2.6	
3/24/2017	28							
5/2/2017			<1					
5/3/2017	38				22		2.6	
10/4/2017	45		<1		22			
10/5/2017							2.5	
1/24/2018				<1		22		
1/25/2018		33						2.5
6/20/2018				<1				2.5
6/21/2018		21						
6/26/2018						23		
9/27/2018		28		<1				
9/28/2018						24		
10/2/2018								2.7
1/22/2019								2.8
1/24/2019				0.77 (J)				
1/25/2019						25		
1/31/2019		20						
6/25/2019								3
6/26/2019		13		0.47 (J)		25		

# Prediction Limit

Constituent: Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17
3/30/2016	7.2023		1.7296		0.5433 (J)		0.8313 (J)	
5/25/2016	10.5		1.52		0.4393 (J)		0.195 (J)	
7/26/2016	38		1.2					
7/27/2016					<1		0.7 (J)	
9/15/2016	13							
9/16/2016					<1			
9/19/2016							<1	
9/20/2016			0.85 (J)					
11/17/2016	18		0.83 (J)		<1		0.75 (J)	
2/1/2017	8.2		1.9		<1		<1	
3/23/2017	10		1.6					
3/24/2017					<1		<1	
5/3/2017	10		1.3		<1		<1	
10/4/2017	22		1.4				<1	
10/5/2017					<1			
1/25/2018		9.9		1.4		<1		<1
6/20/2018		18		2.1		<1		
6/26/2018								<1
10/1/2018		11		1.4		<1		
10/2/2018								<1
1/22/2019		13		2				
1/24/2019								0.88 (J)
1/25/2019						0.66 (J)		
6/25/2019		13		2		0.84 (J)		1.1

# Prediction Limit

Constituent: Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20	GWC-21	GWC-21
3/30/2016	0.6239 (J)		2.3237		1.0356		0.3269 (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							<1	
9/19/2016	<1		<1					
9/20/2016					0.83 (J)		<1	
11/17/2016	<1		<1		0.71 (J)		<1	
2/1/2017	<1							
2/2/2017			8.6		0.82 (J)		<1	
3/24/2017	<1		2.5					
3/28/2017					0.75 (J)		<1	
5/3/2017	<1		0.88 (J)					
5/4/2017					1.1		<1	
10/5/2017	<1		0.81 (J)					
10/6/2017					0.79 (J)		<1	
1/25/2018		<1		0.77 (J)				
1/26/2018						<1		<1
6/20/2018								<1
6/21/2018		<1		<1		1.3		
9/27/2018				<1		1.2		<1
9/28/2018		<1						
1/24/2019								<1
1/28/2019		0.69 (J)		1.2		0.9 (J)		
6/25/2019						0.99 (J)		<1
6/26/2019				0.88 (J)				
6/27/2019		0.85 (J)						

# Prediction Limit

Constituent: Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25
3/28/2016							8.3151	
3/29/2016			0.5302 (J)					
3/30/2016					1.0189			
3/31/2016	0.3648 (J)							
5/25/2016			0.3659 (J)		0.6811 (J)			
5/26/2016	0.562 (J)						4.31	
7/26/2016	<1							
7/27/2016			<1		<1		6.1	
9/16/2016					<1			
9/19/2016							11	
9/20/2016	<1		<1					
11/15/2016							18	
11/17/2016	<1							
11/18/2016			<1		<1			
1/24/2017							26	
2/3/2017	<1		<1		<1			
3/23/2017							23	
3/28/2017	<1		<1					
3/29/2017					<1			
5/2/2017							27	
5/3/2017	<1							
5/4/2017			<1		<1			
10/5/2017	<1		<1		<1		16	
1/25/2018		<1		<1		<1		15
6/20/2018		<1		<1				
6/27/2018						<1		12
9/26/2018								12
9/28/2018						<1		
10/1/2018		<1		<1				
1/24/2019		0.81 (J)						1.4
1/25/2019				0.38 (J)				
1/31/2019						<1		
6/25/2019		0.76 (J)						1.6
6/26/2019				0.64 (J)		0.71 (J)		

# Prediction Limit

Constituent: Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26	GWC-27	GWC-27	GWC-30	GWC-30	GWC-31	GWC-31
3/23/2016			1.3897		1.3729			
3/24/2016	0.4337 (J)							
3/30/2016							15.0114	
5/20/2016					1.31			
5/24/2016			0.598 (J)					
5/25/2016	0.3421 (J)						19.1	
7/21/2016					1.3			
7/26/2016	<1		3					
9/19/2016	<1		1.6					
9/20/2016					1.3			
11/11/2016			3					
11/14/2016	<1				1.1			
1/19/2017	<1							
1/20/2017			2.2					
1/24/2017					1.3			
1/25/2017							13	
3/16/2017	<1		0.95 (J)					
3/17/2017					1.3			
4/28/2017			2.1					
5/1/2017	<1				1.2			
7/19/2017							15	
10/3/2017			<1					
10/4/2017	<1				1.2			
10/6/2017							19	
1/19/2018				1.4				
1/22/2018		<1						
1/23/2018								15
1/24/2018						1		
6/21/2018						1		
6/27/2018		<1		1.7				14
9/27/2018		<1		2.5				
10/3/2018						1.2		18
1/24/2019		0.57 (J)		0.39 (J)				
1/30/2019						1.2		
1/31/2019								10
6/25/2019		0.78 (J)						
6/26/2019				3.2				9.9
6/27/2019						1.7		

# Prediction Limit

Constituent: Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35
3/23/2016	12.8473		19.6956					
3/24/2016					1.8782		2.7482	
5/23/2016					1.44		2.76	
5/24/2016	13.5							
7/21/2016					1.6		2.8	
7/22/2016	12							
9/15/2016					1.6		2.4	
9/16/2016	12							
11/15/2016	13				1.3		2.3	
11/17/2016			22					
1/25/2017			50		1.5			
1/26/2017	9.2						2.7	
3/22/2017					1.5		2.4	
3/23/2017			28					
3/24/2017	9.2							
5/1/2017			25		1.4			
5/2/2017	9						2.5	
7/19/2017			22					
8/4/2017			25					
8/24/2017			19					
10/3/2017					1.4		2.5	
10/5/2017			18					
10/6/2017	8.8							
1/23/2018		9.4		14		1.2		2.4
6/19/2018								2.7
6/20/2018						1.7		
6/26/2018		12		9.2				
10/1/2018								2.8
10/2/2018		9.7		11		1.4		
1/21/2019								2.7
1/28/2019						1.6		
1/30/2019		11		14				
6/26/2019				10		1.9		2.8
6/27/2019		9.9						



# Prediction Limit

Constituent: Sulfate Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7	GWC-8	GWC-8
3/28/2016	19.9405		11.0351					
3/29/2016							15.2958	
5/23/2016	21							
5/24/2016			12.8		85.8		18.5	
7/21/2016	17		16					
7/22/2016					86			
7/26/2016							19	
9/15/2016	16		15		84			
9/19/2016							31	
11/15/2016	15							
11/16/2016			15		89		36	
1/26/2017	13		16		85		49	
3/22/2017	13		13		81			
3/23/2017							21	
5/2/2017	25		10		76			
5/3/2017							17	
10/3/2017	21		11		74			
10/5/2017							16	
1/23/2018		26		10		57		
1/24/2018								10
6/21/2018								11
6/25/2018		30		11		62		
9/25/2018				14				
9/26/2018								20
10/2/2018						60		
10/3/2018		29						
1/21/2019						64		
1/22/2019								12
1/30/2019		31		9.7				
6/25/2019						59		14
6/26/2019		31		9.3				

# Prediction Limit

Constituent: Sulfate, Total Dissolved Solids Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28
3/22/2016							69	
3/23/2016			<25		41			
3/29/2016	14.6203							
5/20/2016			<25					
5/23/2016							92	
5/24/2016	14.7				51			
7/21/2016			14					
7/25/2016	20						38	
7/26/2016					8			
9/15/2016			12				64	
9/16/2016					40			
9/19/2016	22							
11/9/2016							80	
11/10/2016					58			
11/11/2016			4 (J)					
11/16/2016	22							
1/17/2017							54	
1/19/2017			<5		28			
1/31/2017	44							
3/16/2017			14				40	
3/17/2017					<5			
3/23/2017	29							
4/27/2017							84	
4/28/2017			<5		<5			
5/2/2017	18							
10/3/2017	17				36		70	
10/4/2017			34					
1/19/2018				<5		10		36
1/24/2018		14						
6/19/2018				16		<5		70
6/21/2018		13						
9/25/2018				24		32		36
9/26/2018		17						
1/17/2019				20		46		
1/21/2019								58
1/22/2019		12						
6/24/2019				21		72		
6/25/2019		11						88



# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14
3/29/2016	163		151		48			
3/30/2016							165	
5/25/2016	197		175		61		233	
7/22/2016			130					
7/25/2016	220							
7/26/2016					40		330	
9/15/2016			160		54		350	
9/19/2016	240							
11/16/2016	200		230					
11/17/2016					64		440	
1/31/2017	110		170		36			
2/1/2017							150	
3/23/2017	140		220		76		250	
5/2/2017	180							
5/3/2017			150		32		190	
10/4/2017	210		190				520	
10/5/2017					42			
1/24/2018		130		210				
1/25/2018						48		160
6/20/2018		140				12		310
6/26/2018				200				
9/27/2018		130						
9/28/2018				180				
10/1/2018								250
10/2/2018						72		
1/22/2019						42		200
1/24/2019		<10						
1/25/2019				170				
6/25/2019						56		280
6/26/2019		87		140				



# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22
3/30/2016	69		88		42			
3/31/2016							102	
5/26/2016	75		65		42		108	
7/25/2016	44		80					
7/26/2016					48		82	
9/19/2016	74							
9/20/2016			84		56		100	
11/17/2016	34		84		34		110	
2/2/2017	96		100		36			
2/3/2017							110	
3/24/2017	82							
3/28/2017			82		48		98	
5/3/2017	42						98	
5/4/2017			88		22			
10/5/2017	50						<5	
10/6/2017			120		70			
1/25/2018		60						98
1/26/2018				96		52		
6/20/2018						36		94
6/21/2018		76		78				
9/27/2018		62		110		56		
10/1/2018								100
1/24/2019						42		100
1/28/2019		69		95				
6/25/2019				100		63		110
6/26/2019		<10						

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26
3/24/2016							48	
3/28/2016					90			
3/29/2016	53							
3/30/2016			39					
5/25/2016	33		30				42	
5/26/2016					75			
7/26/2016							20	
7/27/2016	30		28		78			
9/16/2016			22					
9/19/2016					100		48	
9/20/2016	42							
11/14/2016							40	
11/15/2016					110			
11/18/2016	4 (J)		28					
1/19/2017							10	
1/24/2017					96			
2/3/2017	20		26					
3/16/2017							<5	
3/23/2017					96			
3/28/2017	38							
3/29/2017			28					
5/1/2017							10	
5/2/2017					100			
5/4/2017	54		30					
10/4/2017							60	
10/5/2017	26		12		86			
1/22/2018								40
1/25/2018		32		20		100		
6/20/2018		54						
6/27/2018				24		60		8
9/26/2018						60		
9/27/2018								86
9/28/2018				16				
10/1/2018		140						
1/24/2019						54		34
1/25/2019		<10						
1/31/2019				30				
6/25/2019						58		49
6/26/2019		44		<10				

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32
3/23/2016	46		51				75	
3/30/2016					128			
5/20/2016			58					
5/24/2016	34						83	
5/25/2016					118			
7/21/2016			42					
7/22/2016							76	
7/26/2016	16							
9/16/2016							84	
9/19/2016	52							
9/20/2016			52					
11/11/2016	56							
11/14/2016			38					
11/15/2016							94	
1/20/2017	38							
1/24/2017			36					
1/25/2017					120			
1/26/2017							68	
3/16/2017	32							
3/17/2017			48					
3/24/2017							110	
4/28/2017	46							
5/1/2017			10					
5/2/2017							76	
7/19/2017					100			
10/3/2017	12							
10/4/2017			74					
10/6/2017					120		130	
1/19/2018		<5						
1/23/2018						70		110
1/24/2018				10				
6/21/2018				28				
6/26/2018								66
6/27/2018		54				92		
9/27/2018		58						
10/2/2018								100
10/3/2018				42		86		
1/24/2019		<10						
1/30/2019				53				91
1/31/2019						160		
6/26/2019		<10				110		
6/27/2019				30				47



# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/29/2019 3:31 PM View: State CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5
3/23/2016	80							
3/24/2016			55		33			
3/28/2016							172	
5/23/2016			61		48		189	
7/21/2016			32		36		170	
9/15/2016			62		38		180	
11/15/2016			56		44		180	
11/17/2016	140							
1/25/2017	160		<5					
1/26/2017					<5		120	
3/22/2017			58		34		110	
3/23/2017	120							
5/1/2017	72		22					
5/2/2017					4 (J)		140	
7/19/2017	120							
8/4/2017	90							
8/24/2017	82							
10/3/2017			16		26		170	
10/5/2017	74							
1/23/2018		100		64		56		210
6/19/2018						28		
6/20/2018				<5				
6/25/2018								200
6/26/2018		100						
10/1/2018						40		
10/2/2018		120		98				
10/3/2018								230
1/21/2019						17		
1/28/2019				33				
1/30/2019		100						220
6/26/2019		100		61		46		120

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/29/2019 3:31 PM View: State CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9
3/28/2016	92							
3/29/2016			517		172		93	
5/24/2016	115		494		196		162	
7/21/2016	120							
7/22/2016			430					
7/25/2016							200	
7/26/2016					160			
9/15/2016	130		460					
9/19/2016					220		340	
11/16/2016	150		500		240		280	
1/26/2017	74		440		130			
1/31/2017							160	
3/22/2017	120		440					
3/23/2017					190		230	
5/2/2017	82		420				150	
5/3/2017					160			
10/3/2017	100		450				190	
10/5/2017					200			
1/23/2018		120		390				
1/24/2018						94		160
6/21/2018						210		150
6/25/2018		110		400				
9/25/2018		120						
9/26/2018						180		130
10/2/2018				440				
1/21/2019				340				
1/22/2019						86		68
1/30/2019		120						
6/25/2019				400		200		160
6/26/2019		41						

# Intrawell Prediction Limit Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium (mg/L)	GWC-21	0.0348	6/25/2019	0.046	Yes	23	0	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWC-32	0.001638	6/27/2019	0.0017	Yes	23	30.43	No	0.0001135	Param Intra 1 of 3
Chromium (mg/L)	GWA-1	0.0025	6/24/2019	0.0042	Yes	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-3	0.0025	6/25/2019	0.0027	Yes	9	88.89	n/a	0.004675	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-16	0.002696	6/25/2019	0.0045	Yes	21	0	No	0.0001135	Param Intra 1 of 3
Chromium (mg/L)	GWC-17	0.0025	6/25/2019	0.0042	Yes	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-22	0.0027	6/25/2019	0.003	Yes	23	60.87	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-24	0.0025	6/26/2019	0.0027	Yes	14	92.86	n/a	0.0016	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-26	0.0025	6/25/2019	0.003	Yes	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-5	0.0025	6/26/2019	0.0029	Yes	22	86.36	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-6	0.0025	6/26/2019	0.0027	Yes	22	100	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-9	0.0029	6/25/2019	0.0048	Yes	23	47.83	n/a	0.0004078	NP Intra (normality) 1 of 3
Copper (mg/L)	GWA-3	0.002	6/25/2019	0.004	Yes	5	80	n/a	0.01896	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-26	0.0025	6/25/2019	0.0031	Yes	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-8	0.003953	6/25/2019	0.0053	Yes	15	40	No	0.0001135	Param Intra 1 of 3
Vanadium (mg/L)	GWA-1	0.0025	6/24/2019	0.0028	Yes	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-3	0.0025	6/25/2019	0.0028	Yes	5	100	n/a	0.01896	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-17	0.004392	6/25/2019	0.005	Yes	16	50	sqrt(x)	0.0001135	Param Intra 1 of 3
Vanadium (mg/L)	GWC-18	0.0025	6/27/2019	0.0031	Yes	15	80	n/a	0.001313	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-19	0.0021	6/26/2019	0.0023	Yes	16	75	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-22	0.008541	6/25/2019	0.0092	Yes	16	18.75	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-14	0.01302	6/25/2019	0.014	Yes	16	18.75	sqrt(x)	0.0001135	Param Intra 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.0021	6/24/2019	0.002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-28	0.0021	6/25/2019	0.002ND	No	23	86.96	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-29	0.002	6/25/2019	0.002ND	No	21	85.71	n/a	0.000511	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-3	0.002	6/25/2019	0.002ND	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-10	0.002	6/26/2019	0.002ND	No	12	91.67	n/a	0.002173	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-11	0.0023	6/26/2019	0.002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-18	0.0022	6/27/2019	0.002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-22	0.002	6/25/2019	0.002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-23	0.002	6/26/2019	0.002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-24	0.002	6/26/2019	0.002ND	No	14	64.29	n/a	0.0016	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-25	0.002	6/25/2019	0.002ND	No	22	95.45	n/a	0.0004594	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-26	0.002	6/25/2019	0.002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-27	0.002	6/26/2019	0.002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-30	0.002	6/27/2019	0.002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-31	0.0027	6/26/2019	0.002ND	No	18	88.89	n/a	0.0007943	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-32	0.002	6/27/2019	0.002ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-33	0.002	6/26/2019	0.002ND	No	22	100	n/a	0.0004594	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-5	0.0024	6/26/2019	0.002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-6	0.002	6/26/2019	0.002ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-1	0.0013	6/24/2019	0.00054	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-2	0.0013	6/24/2019	0.00043	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-28	0.001	6/25/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-29	0.001	6/25/2019	0.001ND	No	21	90.48	n/a	0.000511	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-3	0.001	6/25/2019	0.001ND	No	9	88.89	n/a	0.004675	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-4	0.0013	6/24/2019	0.00032	No	23	86.96	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-11	0.005	6/26/2019	0.0015	No	23	52.17	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-12	0.0024	6/26/2019	0.001ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-13	0.0012	6/25/2019	0.001ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-14	0.0013	6/25/2019	0.00048	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-16	0.001	6/25/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-18	0.001	6/27/2019	0.001ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-19	0.0013	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-20	0.001	6/25/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-22	0.001	6/25/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-23	0.001	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-24	0.001	6/26/2019	0.001ND	No	14	92.86	n/a	0.0016	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-25	0.001	6/25/2019	0.001ND	No	22	90.91	n/a	0.0004594	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-26	0.001	6/25/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-31	0.0012	6/26/2019	0.001ND	No	18	83.33	n/a	0.0007943	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-32	0.001	6/27/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-33	0.0013	6/26/2019	0.001ND	No	22	95.45	n/a	0.0004594	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-34	0.0012	6/26/2019	0.001ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-35	0.001	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-5	0.0014	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-6	0.001	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-7	0.0013	6/25/2019	0.00035	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-8	0.0013	6/25/2019	0.00045	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-9	0.0013	6/25/2019	0.00086	No	23	78.26	n/a	0.0004078	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-1	0.01292	6/24/2019	0.0096	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWA-2	0.02156	6/24/2019	0.011	No	23	0	No	0.0001135	Param Intra 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium (mg/L)	GWA-28	0.005	6/25/2019	0.005ND	No	23	39.13	n/a	0.0004078	NP Intra (normality) 1 of 3
Barium (mg/L)	GWA-29	0.004768	6/25/2019	0.005ND	No	21	9.524	ln(x)	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWA-3	0.1	6/25/2019	0.082	No	9	0	n/a	0.004675	NP Intra (normality) 1 of 3
Barium (mg/L)	GWA-4	0.1824	6/24/2019	0.12	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-10	0.0357	6/26/2019	0.02	No	12	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-11	0.4492	6/26/2019	0.26	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-12	0.02403	6/26/2019	0.02	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-13	0.004459	6/25/2019	0.0069	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-14	0.2948	6/25/2019	0.16	No	23	4.348	sqrt(x)	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-15	0.01334	6/25/2019	0.0096	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-16	0.019	6/25/2019	0.018	No	23	0	n/a	0.0004078	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-17	0.01934	6/25/2019	0.017	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-18	0.0383	6/27/2019	0.035	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-19	0.1105	6/26/2019	0.077	No	22	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-20	0.03851	6/25/2019	0.034	No	23	0	No	0.0001135	Param Intra 1 of 3
<b>Barium (mg/L)</b>	<b>GWC-21</b>	<b>0.0348</b>	<b>6/25/2019</b>	<b>0.046</b>	<b>Yes</b>	<b>23</b>	<b>0</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Barium (mg/L)	GWC-22	0.02915	6/25/2019	0.026	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-23	0.01113	6/26/2019	0.0041	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-24	0.03462	6/26/2019	0.0093	No	14	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-25	0.05225	6/25/2019	0.032	No	22	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-26	0.04031	6/25/2019	0.038	No	23	0	x^2	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-27	0.01993	6/26/2019	0.017	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-30	0.009529	6/27/2019	0.0071	No	23	0	sqrt(x)	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-31	0.008406	6/26/2019	0.005ND	No	18	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-32	0.005408	6/27/2019	0.005ND	No	23	13.04	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-33	0.01448	6/26/2019	0.0057	No	22	4.545	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-34	0.01295	6/26/2019	0.011	No	22	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-35	0.02169	6/26/2019	0.021	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-5	0.0325	6/26/2019	0.02	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-6	0.06792	6/26/2019	0.045	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-7	0.1475	6/25/2019	0.075	No	23	0	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-8	0.1142	6/25/2019	0.06	No	23	0	sqrt(x)	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-9	0.2145	6/25/2019	0.18	No	23	0	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWA-1	0.0025	6/24/2019	0.00029	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-2	0.0025	6/24/2019	0.00023	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-28	0.0025	6/25/2019	0.00039	No	23	43.48	n/a	0.0004078	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWA-29	0.002857	6/25/2019	0.0023	No	21	9.524	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWC-11	0.001	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-14	0.0025	6/25/2019	0.00041	No	23	65.22	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-16	0.001	6/25/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-19	0.001	6/26/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-21	0.001	6/25/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-23	0.001	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-24	0.0025	6/26/2019	0.00017	No	14	78.57	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-25	0.001	6/25/2019	0.001ND	No	22	100	n/a	0.0004594	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-26	0.001	6/25/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-27	0.007589	6/26/2019	0.0056	No	23	13.04	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWC-30	0.001	6/27/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-31	0.003	6/26/2019	0.00084	No	18	33.33	n/a	0.0007943	NP Intra (normality) 1 of 3
<b>Beryllium (mg/L)</b>	<b>GWC-32</b>	<b>0.001638</b>	<b>6/27/2019</b>	<b>0.0017</b>	<b>Yes</b>	<b>23</b>	<b>30.43</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>

# Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GWC-33	0.0025	6/26/2019	0.00027	No	22	40.91	n/a	0.0004594	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-34	0.0025	6/26/2019	0.00032	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-35	0.0025	6/26/2019	0.00022	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-6	0.001	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-8	0.001	6/25/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-9	0.001	6/25/2019	0.001ND	No	23	82.61	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-1	0.001	6/24/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-29	0.001	6/25/2019	0.001ND	No	21	95.24	n/a	0.000511	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-3	0.0025	6/25/2019	0.00014	No	9	66.67	n/a	0.004675	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-11	0.0022	6/26/2019	0.001ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-14	0.0025	6/25/2019	0.00021	No	23	73.91	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-24	0.0021	6/26/2019	0.001ND	No	14	85.71	n/a	0.0016	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWA-1</b>	<b>0.0025</b>	<b>6/24/2019</b>	<b>0.0042</b>	<b>Yes</b>	<b>23</b>	<b>95.65</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWA-2	0.0025	6/24/2019	0.0022	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-28	0.0082	6/25/2019	0.0024	No	23	86.96	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-29	0.00684	6/25/2019	0.003	No	21	85.71	n/a	0.000511	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWA-3</b>	<b>0.0025</b>	<b>6/25/2019</b>	<b>0.0027</b>	<b>Yes</b>	<b>9</b>	<b>88.89</b>	<b>n/a</b>	<b>0.004675</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWA-4	0.0025	6/24/2019	0.0022	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-10	0.0029	6/26/2019	0.0021	No	12	91.67	n/a	0.002173	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-11	0.01	6/26/2019	0.0041	No	23	17.39	n/a	0.0004078	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-12	0.0025	6/26/2019	0.0021	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-13	0.0025	6/25/2019	0.0022	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-14	0.0025	6/25/2019	0.0023	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-15	0.0025	6/25/2019	0.0022	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWA-16</b>	<b>0.002696</b>	<b>6/25/2019</b>	<b>0.0045</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
<b>Chromium (mg/L)</b>	<b>GWC-17</b>	<b>0.0025</b>	<b>6/25/2019</b>	<b>0.0042</b>	<b>Yes</b>	<b>23</b>	<b>95.65</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-18	0.0025	6/27/2019	0.0022	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-19	0.0025	6/26/2019	0.0023	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-20	0.0025	6/25/2019	0.0023	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-21	0.0025	6/25/2019	0.0021	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-22</b>	<b>0.0027</b>	<b>6/25/2019</b>	<b>0.003</b>	<b>Yes</b>	<b>23</b>	<b>60.87</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-23	0.0025	6/26/2019	0.0023	No	23	78.26	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-24</b>	<b>0.0025</b>	<b>6/26/2019</b>	<b>0.0027</b>	<b>Yes</b>	<b>14</b>	<b>92.86</b>	<b>n/a</b>	<b>0.0016</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-25	0.015	6/25/2019	0.003	No	21	71.43	n/a	0.000511	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-26</b>	<b>0.0025</b>	<b>6/25/2019</b>	<b>0.003</b>	<b>Yes</b>	<b>23</b>	<b>95.65</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-27	0.0025	6/26/2019	0.0022	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-30	0.0025	6/27/2019	0.0025	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-31	0.008613	6/26/2019	0.0037	No	18	16.67	ln(x)	0.0001135	Param Intra 1 of 3
Chromium (mg/L)	GWC-32	0.0053	6/27/2019	0.0022	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-33	0.0034	6/26/2019	0.0022	No	22	77.27	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-34	0.0025	6/26/2019	0.0022	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-35	0.0025	6/26/2019	0.0022	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-5</b>	<b>0.0025</b>	<b>6/26/2019</b>	<b>0.0029</b>	<b>Yes</b>	<b>22</b>	<b>86.36</b>	<b>n/a</b>	<b>0.0004594</b>	<b>NP Intra (NDs) 1 of 3</b>
<b>Chromium (mg/L)</b>	<b>GWC-6</b>	<b>0.0025</b>	<b>6/26/2019</b>	<b>0.0027</b>	<b>Yes</b>	<b>22</b>	<b>100</b>	<b>n/a</b>	<b>0.0004594</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-7	0.0025	6/25/2019	0.0021	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-8	0.0025	6/25/2019	0.0024	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-9</b>	<b>0.0029</b>	<b>6/25/2019</b>	<b>0.0048</b>	<b>Yes</b>	<b>23</b>	<b>47.83</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (normality) 1 of 3</b>
Cobalt (mg/L)	GWA-1	0.0025	6/24/2019	0.00019	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-2	0.0025	6/24/2019	0.00019	No	23	78.26	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-29	0.0025	6/25/2019	0.00012	No	21	100	n/a	0.000511	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	GWA-3	0.0028	6/25/2019	0.00042	No	9	66.67	n/a	0.004675	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-4	0.01261	6/24/2019	0.006	No	23	8.696	sqrt(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-10	0.0143	6/26/2019	0.0051	No	12	0	No	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-11	0.01525	6/26/2019	0.0037	No	23	0	No	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-12	0.0025	6/26/2019	0.00039	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-15	0.0025	6/25/2019	0.00012	No	23	65.22	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-16	0.0005	6/25/2019	0.0005ND	No	22	100	n/a	0.0004594	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-19	0.004909	6/26/2019	0.00042	No	23	39.13	ln(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-20	0.0025	6/25/2019	0.00012	No	23	78.26	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-21	0.004852	6/25/2019	0.0028	No	23	30.43	No	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-23	0.0037	6/26/2019	0.0005ND	No	23	60.87	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-24	0.01526	6/26/2019	0.001	No	14	14.29	ln(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-25	0.04937	6/25/2019	0.001	No	22	9.091	sqrt(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-26	0.0025	6/25/2019	0.00017	No	23	86.96	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-27	0.003584	6/26/2019	0.0023	No	22	18.18	x^(1/3)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-31	0.0015	6/26/2019	0.0005ND	No	18	94.44	n/a	0.0007943	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-32	0.0025	6/27/2019	0.00017	No	23	69.57	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-33	0.01175	6/26/2019	0.0025	No	22	18.18	sqrt(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-34	0.027	6/26/2019	0.0005ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-35	0.0025	6/26/2019	0.00028	No	23	60.87	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-5	0.04515	6/26/2019	0.0054	No	23	0	sqrt(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-6	0.037	6/26/2019	0.012	No	23	0	n/a	0.0004078	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-7	0.02666	6/25/2019	0.0039	No	23	17.39	x^(1/3)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-8	0.07133	6/25/2019	0.035	No	21	0	No	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-9	0.1558	6/25/2019	0.043	No	22	4.545	sqrt(x)	0.0001135	Param Intra 1 of 3
Copper (mg/L)	GWA-2	0.002	6/24/2019	0.0011	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-28	0.002	6/25/2019	0.002ND	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-29	0.01582	6/25/2019	0.0085	No	16	18.75	No	0.0001135	Param Intra 1 of 3
<b>Copper (mg/L)</b>	<b>GWA-3</b>	<b>0.002</b>	<b>6/25/2019</b>	<b>0.004</b>	<b>Yes</b>	<b>5</b>	<b>80</b>	<b>n/a</b>	<b>0.01896</b>	<b>NP Intra (NDs) 1 of 3</b>
Copper (mg/L)	GWC-11	0.002	6/26/2019	0.002ND	No	16	81.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-13	0.0021	6/25/2019	0.002ND	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-14	0.0068	6/25/2019	0.0008	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-15	0.002	6/25/2019	0.002ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-17	0.002	6/25/2019	0.002ND	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-20	0.0054	6/25/2019	0.002ND	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-23	0.002	6/26/2019	0.002ND	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-24	0.0028	6/26/2019	0.00094	No	7	71.43	n/a	0.008668	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-25	0.0034	6/25/2019	0.0029	No	15	73.33	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-26	0.0027	6/25/2019	0.002	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-27	0.0038	6/26/2019	0.002ND	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-31	0.0048	6/26/2019	0.0019	No	12	58.33	n/a	0.002173	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-33	0.002	6/26/2019	0.002ND	No	15	93.33	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-35	0.002	6/26/2019	0.002ND	No	16	75	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-5	0.002	6/26/2019	0.002ND	No	16	81.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-6	0.0031	6/26/2019	0.002ND	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-8	0.0035	6/25/2019	0.00074	No	16	62.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-9	0.0026	6/25/2019	0.002ND	No	16	81.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-29	0.001	6/25/2019	0.00029	No	21	100	n/a	0.000511	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-3	0.001	6/25/2019	0.001ND	No	9	100	n/a	0.004675	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-10	0.0013	6/26/2019	0.001ND	No	12	91.67	n/a	0.002173	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Lead (mg/L)	GWC-17	0.001	6/25/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-18	0.0026	6/27/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-19	0.0013	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-20	0.011	6/25/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-24	0.0013	6/26/2019	0.00016	No	14	100	n/a	0.0016	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-25	0.0021	6/25/2019	0.001ND	No	22	95.45	n/a	0.0004594	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-26	0.001	6/25/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-27	0.001	6/26/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-31	0.0013	6/26/2019	0.00022	No	18	66.67	n/a	0.0007943	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-34	0.001	6/26/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-5	0.001	6/26/2019	0.001ND	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-8	0.001	6/25/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-1	0.0002	6/24/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-2	0.0002	6/24/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-28	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-3	0.0002	6/25/2019	0.0002ND	No	9	88.89	n/a	0.004675	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-4	0.0002	6/24/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-10	0.0002	6/26/2019	0.0002ND	No	12	83.33	n/a	0.002173	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-11	0.0002	6/26/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-12	0.0002	6/26/2019	0.0002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-13	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-14	0.0002	6/25/2019	0.0002ND	No	23	78.26	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-15	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-16	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-17	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-18	0.0002	6/27/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-19	0.0002	6/26/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-20	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-21	0.0002	6/25/2019	0.0002ND	No	23	82.61	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-22	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-23	0.0002	6/26/2019	0.0002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-24	0.0002	6/26/2019	0.0002ND	No	14	92.86	n/a	0.0016	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-25	0.0002	6/25/2019	0.0002ND	No	22	95.45	n/a	0.0004594	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-26	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-27	0.0002	6/26/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-30	0.0002	6/27/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-31	0.0002	6/26/2019	0.0002ND	No	18	94.44	n/a	0.0007943	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-32	0.0002	6/27/2019	0.0002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-33	0.0002	6/26/2019	0.0002ND	No	22	95.45	n/a	0.0004594	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-34	0.0002	6/26/2019	0.0002ND	No	23	86.96	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-35	0.0002	6/26/2019	0.0002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-5	0.0002	6/26/2019	0.0002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-6	0.0002	6/26/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-7	0.0002	6/25/2019	0.0002ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-8	0.0002	6/25/2019	0.0002ND	No	23	86.96	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-9	0.0002	6/25/2019	0.0002ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-1	0.0025	6/24/2019	0.00095	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-2	0.0028	6/24/2019	0.0013	No	16	68.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-28	0.0025	6/25/2019	0.00088	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-29	0.005537	6/25/2019	0.0028	No	16	18.75	No	0.0001135	Param Intra 1 of 3



# Intrawell Prediction Limit All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Nickel (mg/L)	GWA-3	0.0056	6/25/2019	0.0021	No	5	60	n/a	0.01896	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-4	0.0025	6/24/2019	0.0022	No	14	85.71	n/a	0.0016	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-10	0.01272	6/26/2019	0.0014	No	5	0	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-11	0.001	6/26/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-13	0.0025	6/25/2019	0.00068	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-19	0.0025	6/26/2019	0.00051	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-21	0.0025	6/25/2019	0.00085	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-23	0.001	6/26/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-24	0.004597	6/26/2019	0.0016	No	7	14.29	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-25	0.01984	6/25/2019	0.0021	No	15	33.33	sqrt(x)	0.0001135	Param Intra 1 of 3
<b>Nickel (mg/L)</b>	<b>GWC-26</b>	<b>0.0025</b>	<b>6/25/2019</b>	<b>0.0031</b>	<b>Yes</b>	<b>16</b>	<b>100</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
Nickel (mg/L)	GWC-27	0.001	6/26/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-31	0.01227	6/26/2019	0.00034	No	12	25	ln(x)	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-32	0.0025	6/27/2019	0.00059	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-33	0.0025	6/26/2019	0.00068	No	15	93.33	n/a	0.001313	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-34	0.012	6/26/2019	0.00047	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-35	0.004883	6/26/2019	0.0013	No	16	25	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-5	0.009764	6/26/2019	0.0051	No	16	25	x^2	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-6	0.00721	6/26/2019	0.0052	No	16	6.25	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-7	0.02327	6/25/2019	0.01	No	16	25	No	0.0001135	Param Intra 1 of 3
<b>Nickel (mg/L)</b>	<b>GWC-8</b>	<b>0.003953</b>	<b>6/25/2019</b>	<b>0.0053</b>	<b>Yes</b>	<b>15</b>	<b>40</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Nickel (mg/L)	GWC-9	0.04652	6/25/2019	0.01	No	15	6.667	ln(x)	0.0001135	Param Intra 1 of 3
Selenium (mg/L)	GWA-1	0.005	6/24/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-28	0.005	6/25/2019	0.005ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-29	0.005	6/25/2019	0.005ND	No	21	85.71	n/a	0.000511	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-4	0.005	6/24/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-11	0.005	6/26/2019	0.005ND	No	23	82.61	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-12	0.005	6/26/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-13	0.005	6/25/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-14	0.0071	6/25/2019	0.005ND	No	24	75	n/a	0.0003562	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-15	0.005	6/25/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-16	0.005	6/25/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-18	0.005	6/27/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-21	0.005	6/25/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-22	0.005	6/25/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-25	0.005	6/25/2019	0.005ND	No	22	95.45	n/a	0.0004594	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-26	0.005	6/25/2019	0.005ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-27	0.005	6/26/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-30	0.005	6/27/2019	0.005ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-31	0.005	6/26/2019	0.005ND	No	18	72.22	n/a	0.0007943	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-32	0.005	6/27/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-33	0.005	6/26/2019	0.005ND	No	22	81.82	n/a	0.0004594	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-35	0.005	6/26/2019	0.005ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-5	0.005	6/26/2019	0.005ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-6	0.005	6/26/2019	0.005ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-8	0.005	6/25/2019	0.005ND	No	23	82.61	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-9	0.005	6/25/2019	0.005ND	No	22	81.82	n/a	0.0004594	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-29	0.002329	6/25/2019	0.0017	No	16	37.5	sqrt(x)	0.0001135	Param Intra 1 of 3
Silver (mg/L)	GWC-10	0.001	6/26/2019	0.001ND	No	5	100	n/a	0.01896	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-11	0.001	6/26/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Silver (mg/L)	GWC-12	0.001	6/26/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-14	0.001	6/25/2019	0.001ND	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-16	0.001	6/25/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-17	0.001	6/25/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-21	0.001	6/25/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-22	0.001	6/25/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-23	0.001	6/26/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-24	0.001	6/26/2019	0.001ND	No	7	100	n/a	0.008668	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-25	0.001	6/25/2019	0.001ND	No	15	100	n/a	0.001313	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-26	0.001	6/25/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-27	0.001	6/26/2019	0.001ND	No	15	100	n/a	0.001313	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-31	0.001	6/26/2019	0.001ND	No	11	54.55	n/a	0.002806	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-32	0.001	6/27/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-33	0.001	6/26/2019	0.001ND	No	15	100	n/a	0.001313	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-5	0.001	6/26/2019	0.001ND	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-6	0.001	6/26/2019	0.001ND	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-1	0.0005	6/24/2019	0.0002	No	23	100	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-4	0.001	6/24/2019	0.001ND	No	23	91.3	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-14	0.001564	6/25/2019	0.00046	No	23	30.43	sqrt(x)	0.0001135	Param Intra 1 of 3
Thallium (mg/L)	GWC-19	0.001	6/26/2019	0.001ND	No	23	95.65	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-27	0.0005	6/26/2019	0.00019	No	21	47.62	n/a	0.000511	NP Intra (normality) 1 of 3
Thallium (mg/L)	GWC-33	0.0005	6/26/2019	0.0002	No	20	45	n/a	0.0005627	NP Intra (normality) 1 of 3
Thallium (mg/L)	GWC-35	0.0005	6/26/2019	0.00019	No	22	95.45	n/a	0.0004594	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-6	0.001	6/26/2019	0.001ND	No	23	82.61	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-7	0.001	6/25/2019	0.001ND	No	21	95.24	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-8	0.001	6/25/2019	0.001ND	No	21	80.95	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-9	0.001	6/25/2019	0.001ND	No	21	85.71	n/a	0.000511	NP Intra (NDs) 1 of 3
<b>Vanadium (mg/L)</b>	<b>GWA-1</b>	<b>0.0025</b>	<b>6/24/2019</b>	<b>0.0028</b>	<b>Yes</b>	<b>16</b>	<b>100</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
Vanadium (mg/L)	GWA-2	0.0025	6/24/2019	0.0018	No	16	81.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-28	0.0025	6/25/2019	0.0025	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-29	0.0025	6/25/2019	0.0023	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
<b>Vanadium (mg/L)</b>	<b>GWA-3</b>	<b>0.0025</b>	<b>6/25/2019</b>	<b>0.0028</b>	<b>Yes</b>	<b>5</b>	<b>100</b>	<b>n/a</b>	<b>0.01896</b>	<b>NP Intra (NDs) 1 of 3</b>
Vanadium (mg/L)	GWA-4	0.0025	6/24/2019	0.002	No	16	68.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-10	0.006504	6/26/2019	0.0014	No	5	40	No	0.0001135	Param Intra 1 of 3
Vanadium (mg/L)	GWC-11	0.0064	6/26/2019	0.0035	No	16	31.25	n/a	0.001026	NP Intra (normality) 1 of 3
Vanadium (mg/L)	GWC-13	0.0025	6/25/2019	0.0021	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-14	0.002	6/25/2019	0.0014	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-15	0.003	6/25/2019	0.0019	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-16	0.006174	6/25/2019	0.0056	No	16	37.5	No	0.0001135	Param Intra 1 of 3
<b>Vanadium (mg/L)</b>	<b>GWC-17</b>	<b>0.004392</b>	<b>6/25/2019</b>	<b>0.005</b>	<b>Yes</b>	<b>16</b>	<b>50</b>	<b>sqrt(x)</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
<b>Vanadium (mg/L)</b>	<b>GWC-18</b>	<b>0.0025</b>	<b>6/27/2019</b>	<b>0.0031</b>	<b>Yes</b>	<b>15</b>	<b>80</b>	<b>n/a</b>	<b>0.001313</b>	<b>NP Intra (NDs) 1 of 3</b>
<b>Vanadium (mg/L)</b>	<b>GWC-19</b>	<b>0.0021</b>	<b>6/26/2019</b>	<b>0.0023</b>	<b>Yes</b>	<b>16</b>	<b>75</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
Vanadium (mg/L)	GWC-20	0.005	6/25/2019	0.0038	No	16	43.75	n/a	0.001026	NP Intra (normality) 1 of 3
Vanadium (mg/L)	GWC-21	0.0028	6/25/2019	0.0021	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
<b>Vanadium (mg/L)</b>	<b>GWC-22</b>	<b>0.008541</b>	<b>6/25/2019</b>	<b>0.0092</b>	<b>Yes</b>	<b>16</b>	<b>18.75</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Vanadium (mg/L)	GWC-23	0.0025	6/26/2019	0.0019	No	16	81.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-24	0.0025	6/26/2019	0.0014	No	7	85.71	n/a	0.008668	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-25	0.0025	6/25/2019	0.0019	No	13	69.23	n/a	0.001886	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-26	0.0025	6/25/2019	0.0024	No	16	100	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-30	0.0059	6/27/2019	0.0029	No	16	75	n/a	0.001026	NP Intra (NDs) 1 of 3

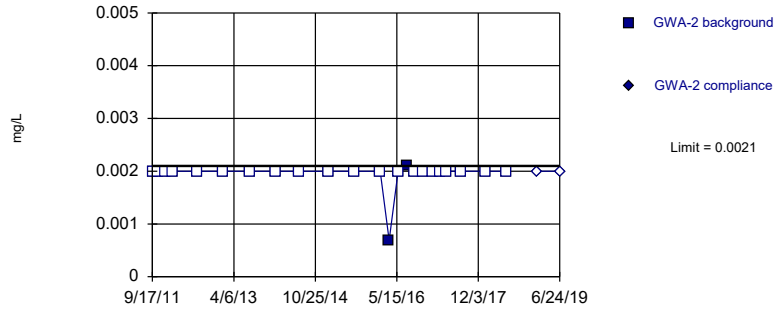
# Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 8/9/2019, 3:18 PM

Constituent	Well	Upper Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Vanadium (mg/L)	GWC-31	0.0043	6/26/2019	0.0015	No	12	75	n/a	0.002173	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-32	0.003	6/27/2019	0.0021	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-33	0.0052	6/26/2019	0.0017	No	15	86.67	n/a	0.001313	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-34	0.0055	6/26/2019	0.002	No	16	93.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-35	0.0026	6/26/2019	0.0015	No	16	81.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-5	0.006406	6/26/2019	0.0033	No	16	43.75	No	0.0001135	Param Intra 1 of 3
Vanadium (mg/L)	GWC-6	0.0064	6/26/2019	0.0016	No	16	81.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-7	0.0057	6/25/2019	0.0035	No	16	62.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-8	0.0038	6/25/2019	0.0026	No	16	75	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-9	0.0025	6/25/2019	0.002	No	16	75	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-1	0.02139	6/24/2019	0.0048	No	16	12.5	ln(x)	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWA-2	0.02	6/24/2019	0.0046	No	16	25	n/a	0.001026	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWA-28	0.02	6/25/2019	0.011	No	16	25	n/a	0.001026	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWA-29	0.05409	6/25/2019	0.041	No	16	0	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWA-3	0.1074	6/25/2019	0.014	No	5	40	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWA-4	0.0093	6/24/2019	0.0036	No	15	60	n/a	0.001313	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-10	0.02	6/26/2019	0.0044	No	5	80	n/a	0.01896	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-11	0.005	6/26/2019	0.005ND	No	15	73.33	n/a	0.001313	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-12	0.005	6/26/2019	0.005ND	No	15	86.67	n/a	0.001313	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-13	0.005	6/25/2019	0.005ND	No	16	75	n/a	0.001026	NP Intra (NDs) 1 of 3
<b>Zinc (mg/L)</b>	<b>GWC-14</b>	<b>0.01302</b>	<b>6/25/2019</b>	<b>0.014</b>	<b>Yes</b>	<b>16</b>	<b>18.75</b>	<b>sqrt(x)</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Zinc (mg/L)	GWC-15	0.005	6/25/2019	0.005ND	No	16	87.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-16	0.005	6/25/2019	0.005ND	No	15	66.67	n/a	0.001313	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-17	0.005	6/25/2019	0.005ND	No	16	62.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-18	0.005	6/27/2019	0.005ND	No	16	68.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-19	0.02	6/26/2019	0.0038	No	16	56.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-20	0.013	6/25/2019	0.005ND	No	16	62.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-21	0.01217	6/25/2019	0.0039	No	16	25	x^(1/3)	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-22	0.0068	6/25/2019	0.005ND	No	16	62.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-23	0.007288	6/26/2019	0.005ND	No	16	31.25	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-24	0.01585	6/26/2019	0.0062	No	7	28.57	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-25	0.02893	6/25/2019	0.01	No	15	6.667	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-26	0.005969	6/25/2019	0.0045	No	14	42.86	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-27	0.012	6/26/2019	0.005ND	No	14	28.57	n/a	0.0016	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-30	0.009	6/27/2019	0.005ND	No	16	62.5	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-31	0.03796	6/26/2019	0.011	No	12	8.333	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-32	0.1273	6/27/2019	0.082	No	16	0	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-33	0.01087	6/26/2019	0.0056	No	15	26.67	ln(x)	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-34	0.005	6/26/2019	0.005ND	No	16	68.75	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-35	0.006162	6/26/2019	0.005ND	No	16	25	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-5	0.005	6/26/2019	0.005ND	No	16	56.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-6	0.005	6/26/2019	0.0033	No	16	56.25	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-7	0.005	6/25/2019	0.005ND	No	15	60	n/a	0.001313	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-8	0.007153	6/25/2019	0.0043	No	16	43.75	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-9	0.008549	6/25/2019	0.005	No	15	46.67	No	0.0001135	Param Intra 1 of 3

Within Limit

### Antimony Intrawell Non-parametric

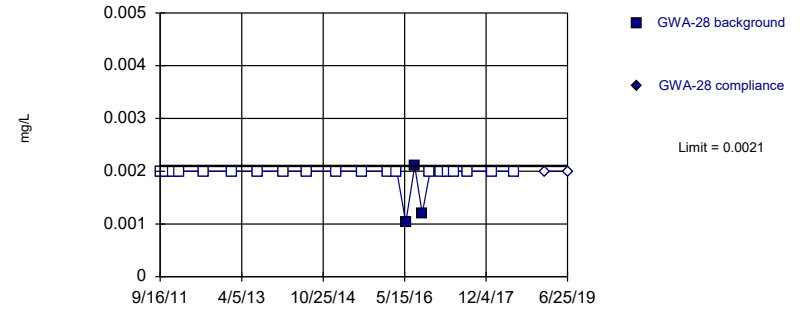


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

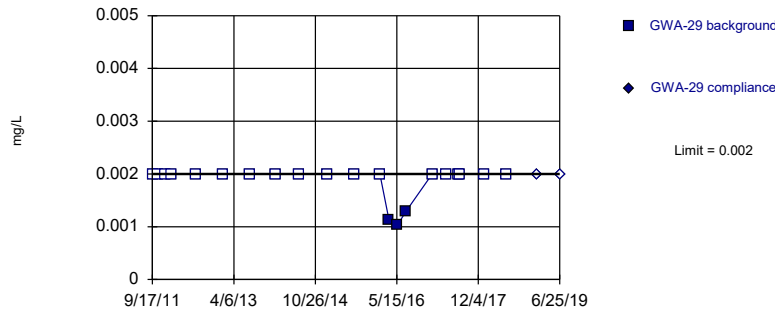


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

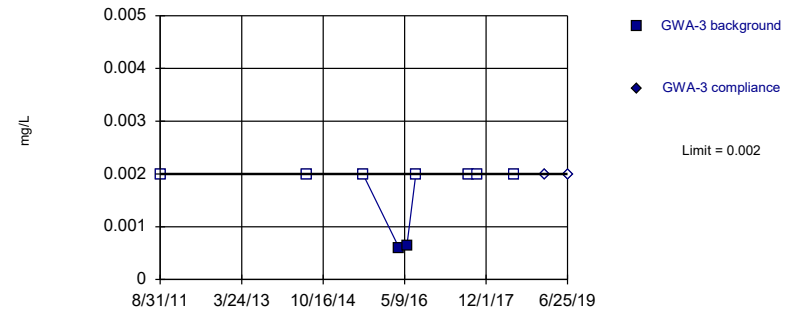


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

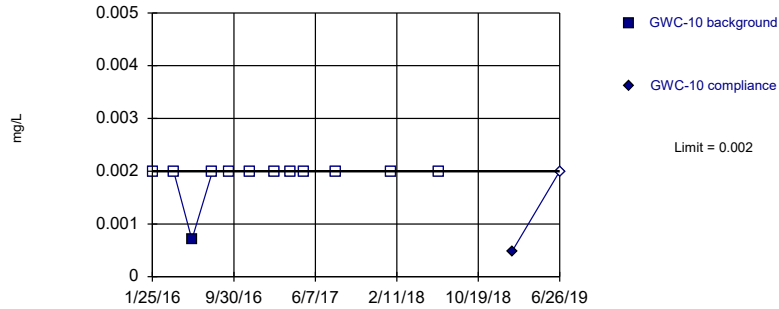


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

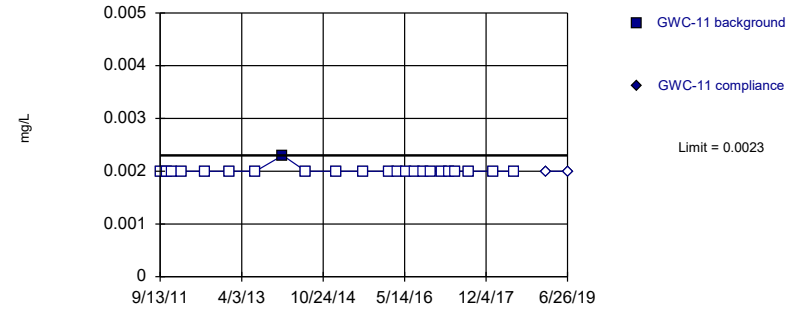


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

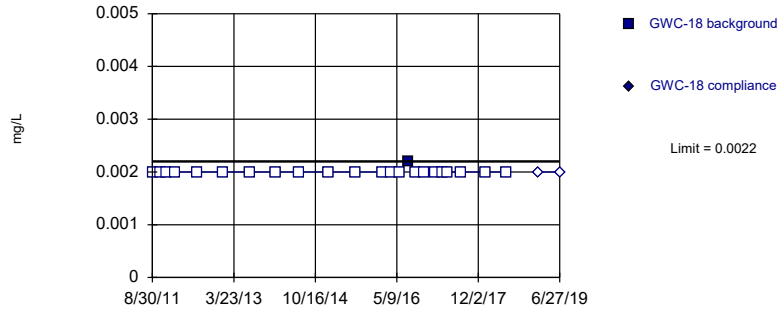


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

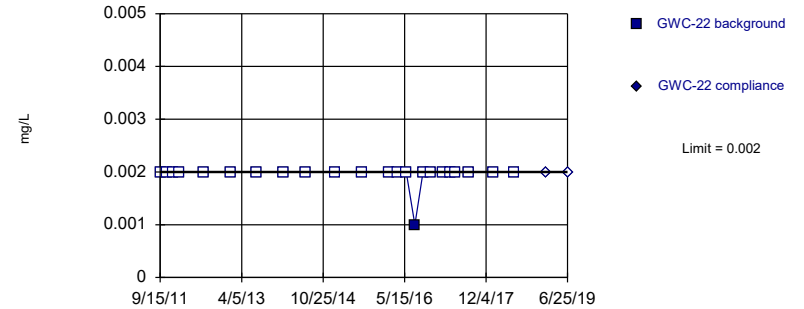


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

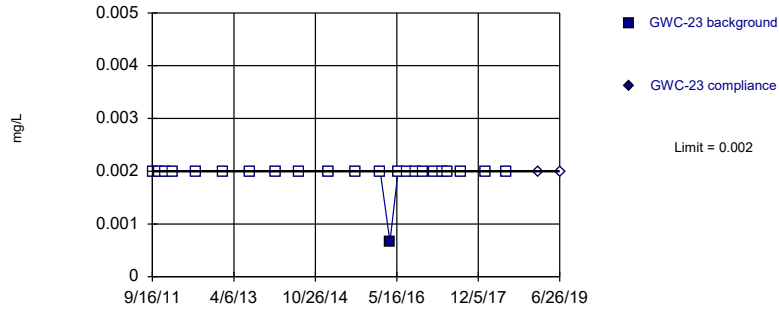


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

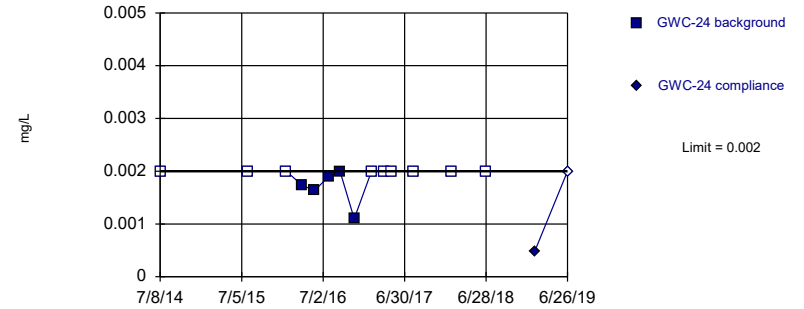


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

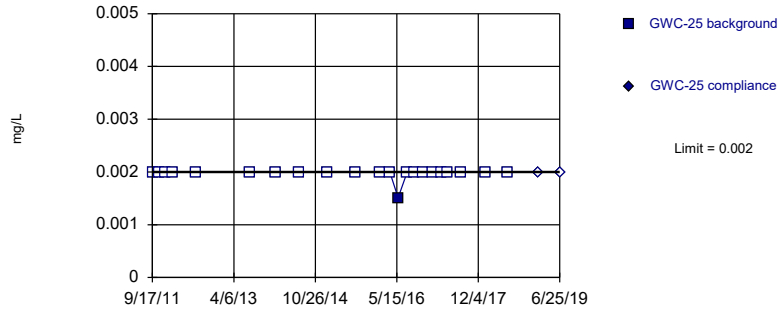


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

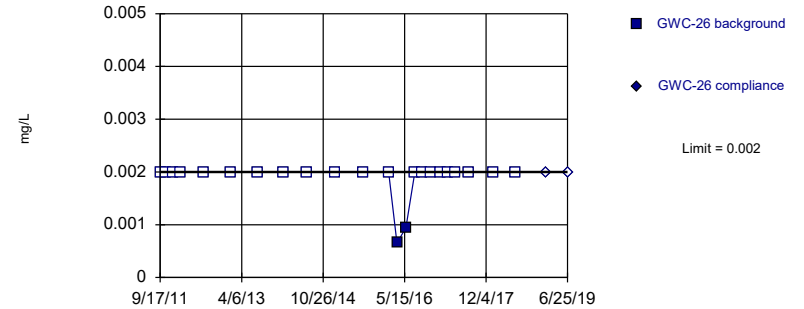


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

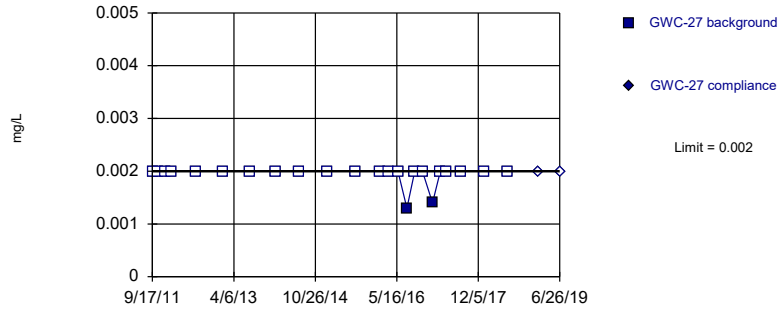


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

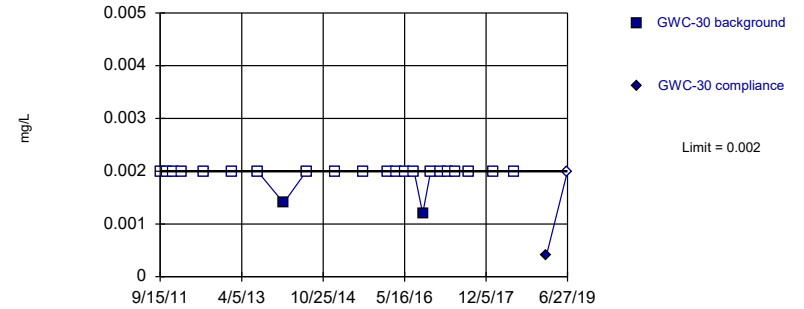


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

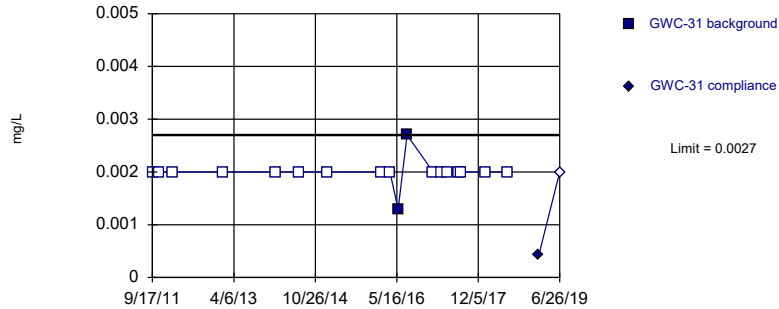


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

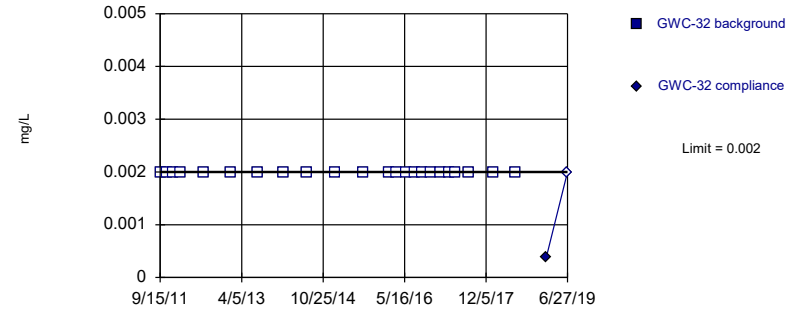


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

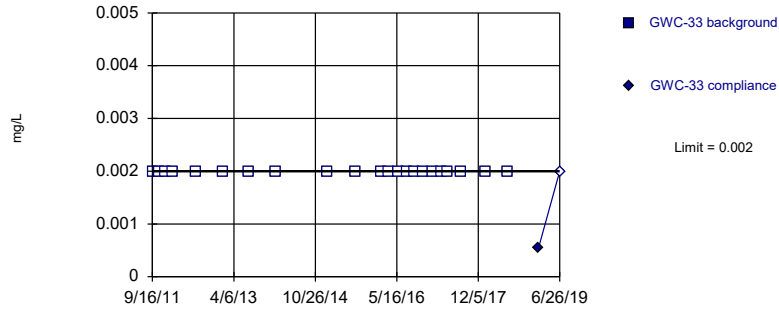


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

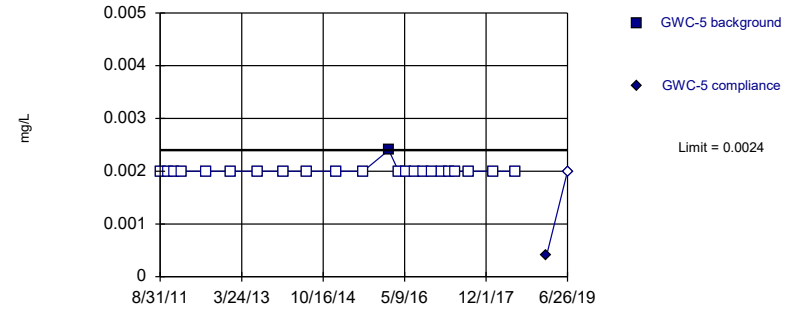


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

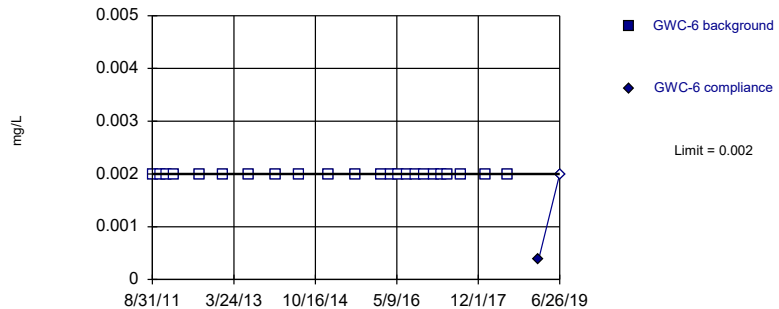


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Antimony Intrawell Non-parametric

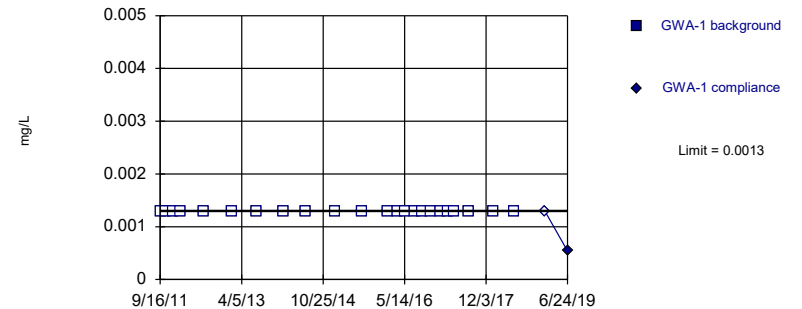


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric



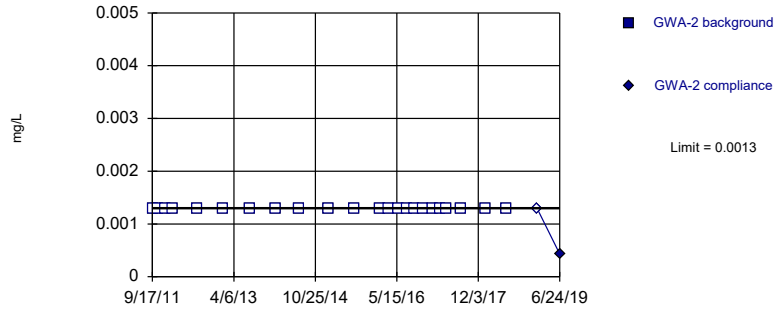
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

### Arsenic Intrawell Non-parametric

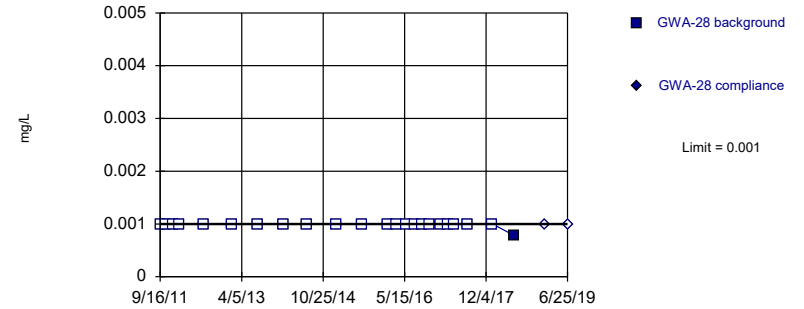


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

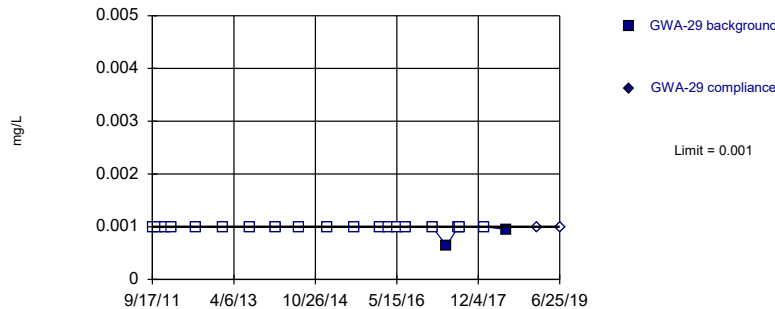


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

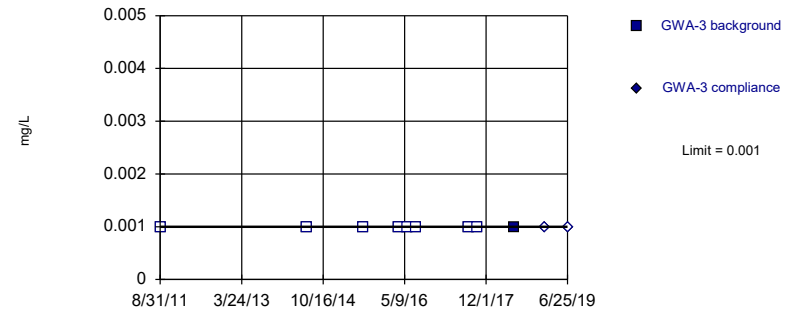


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 90.48% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:46 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

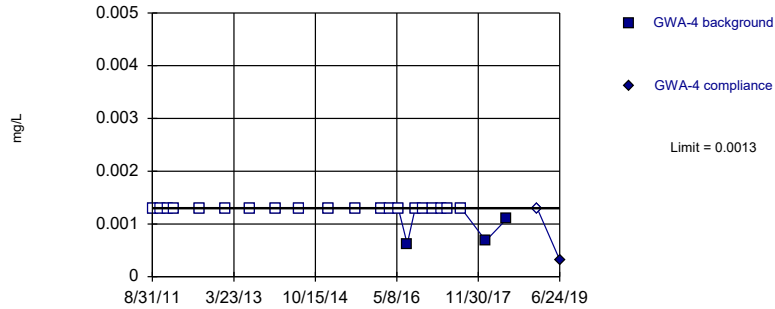


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

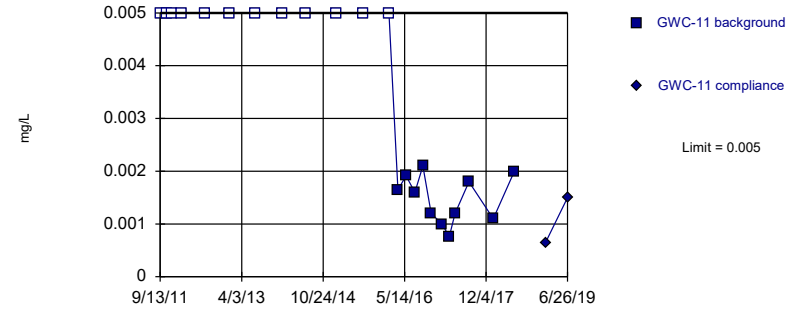


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

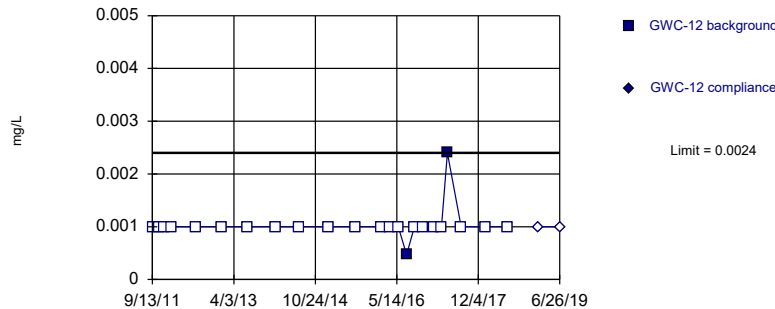


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 52.17% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

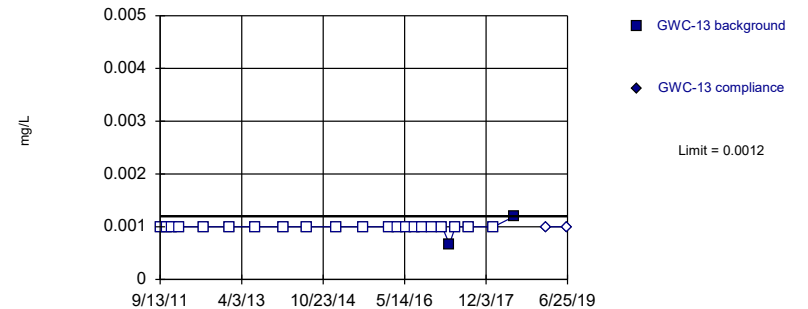


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

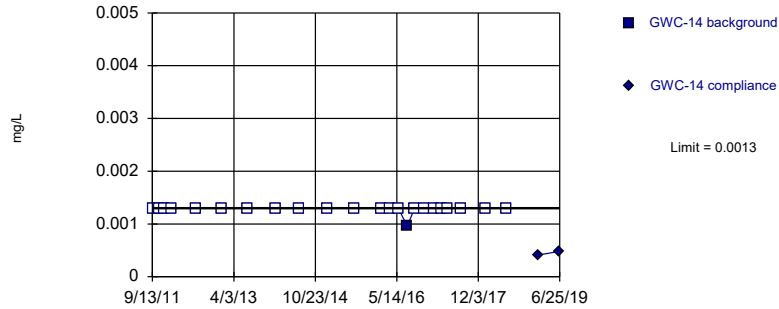


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

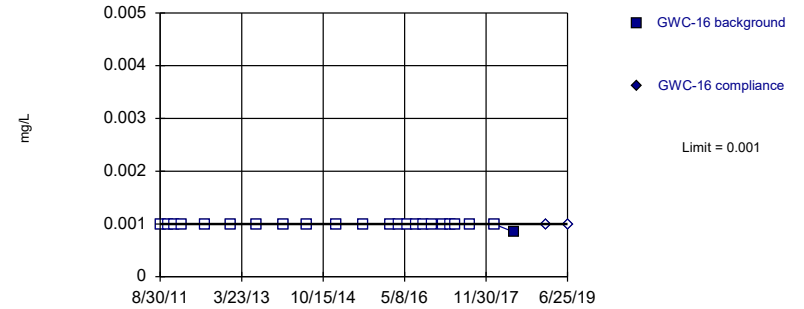


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

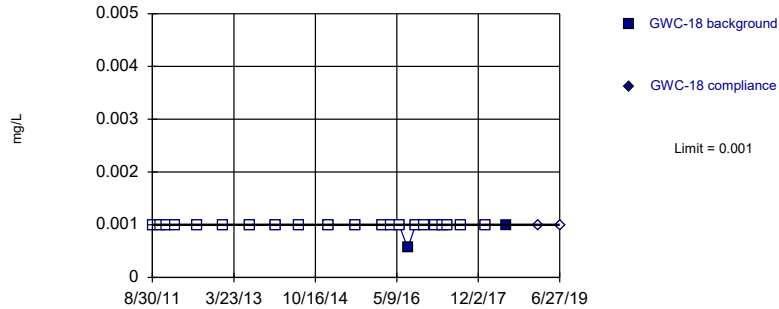


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

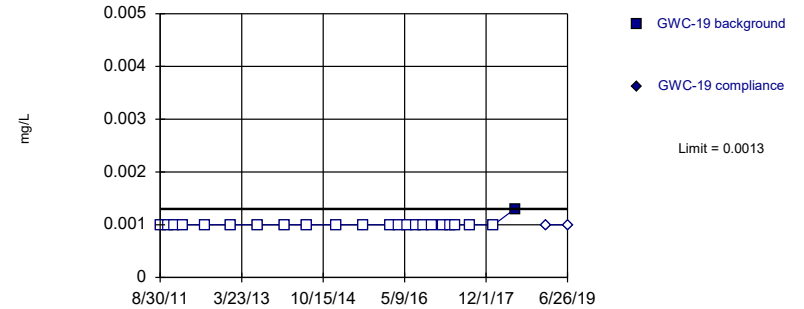


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

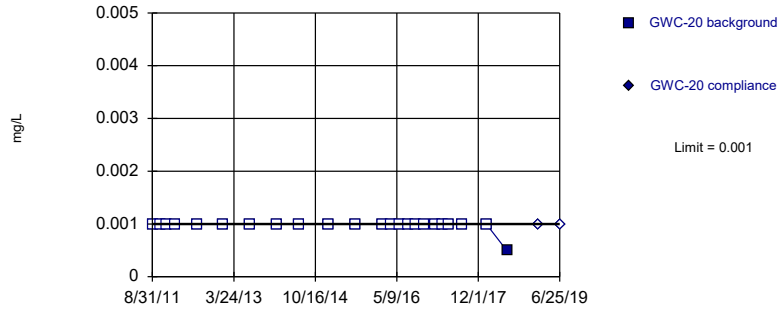


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

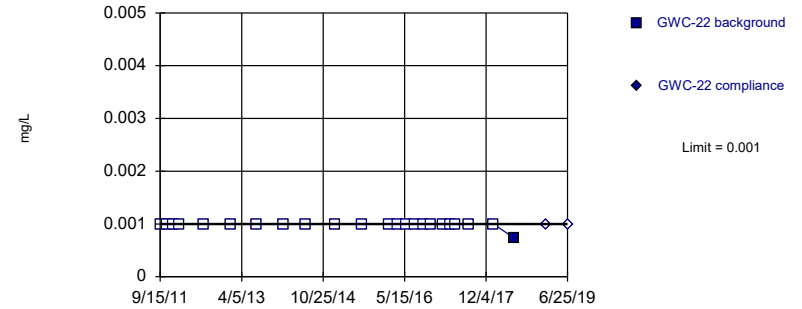


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

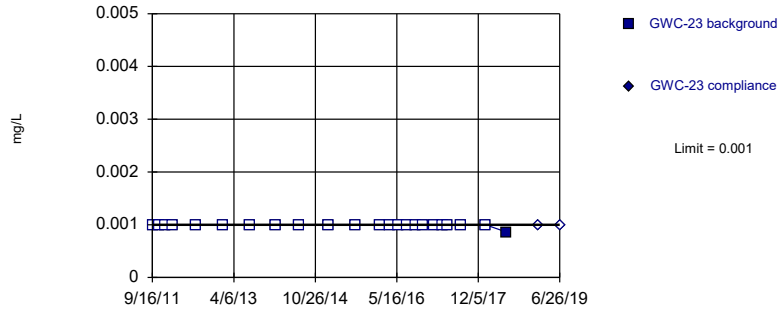


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

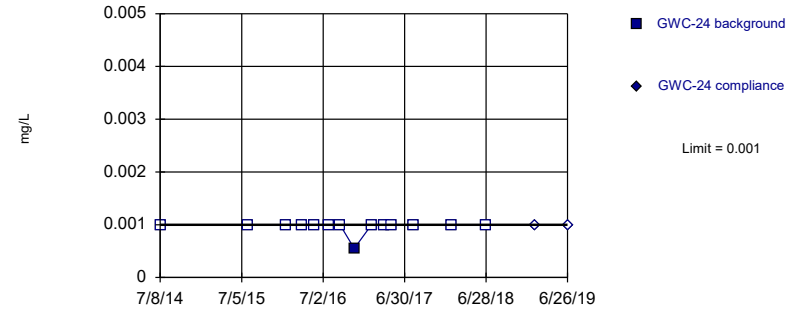


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

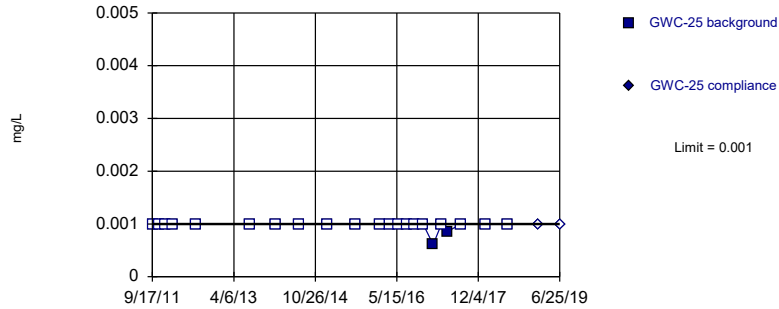


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

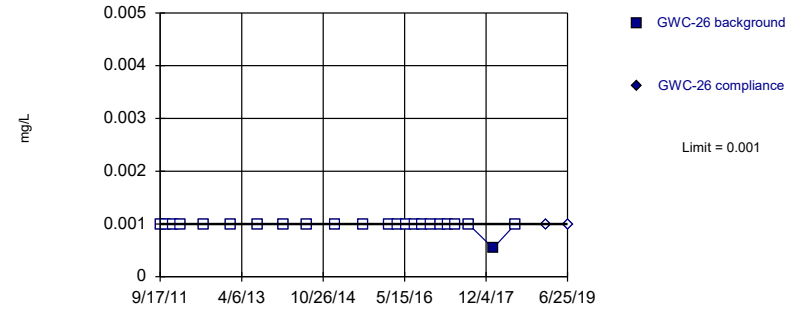


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

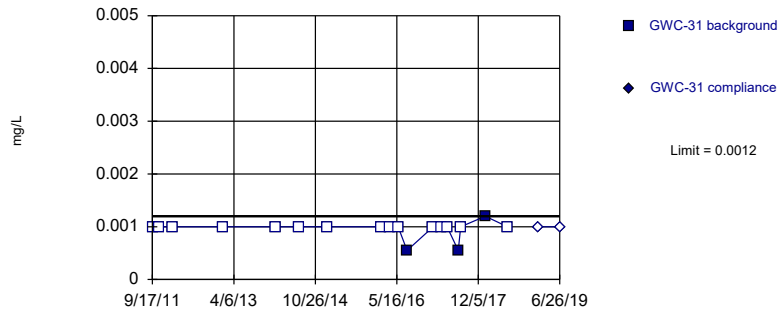


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

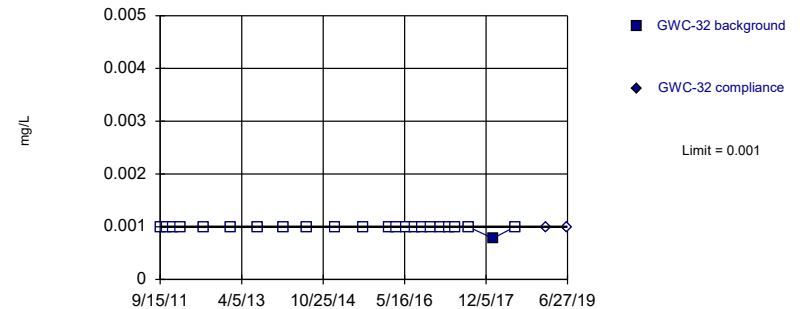


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

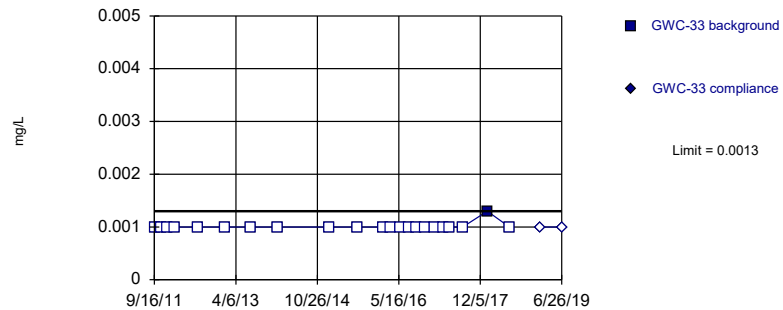


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

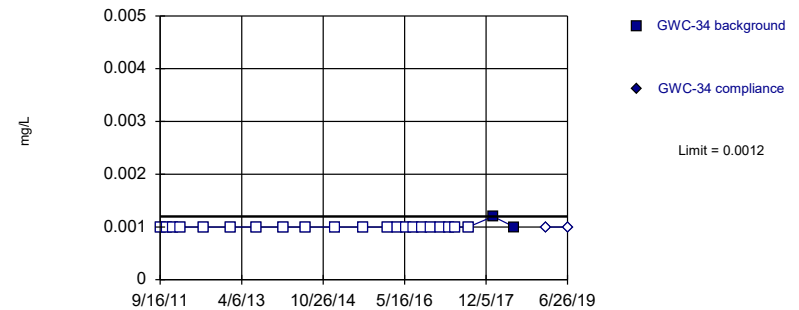


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

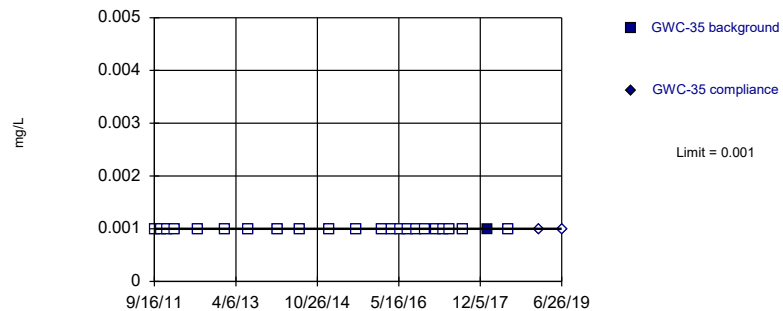


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:47 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

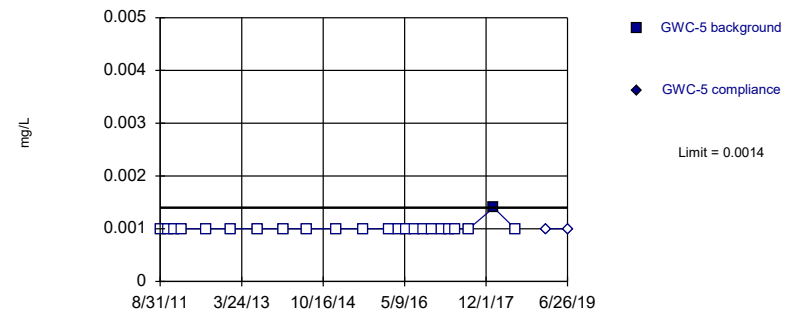


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

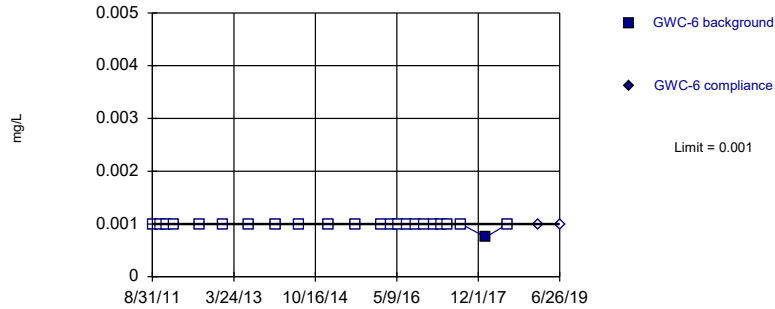


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

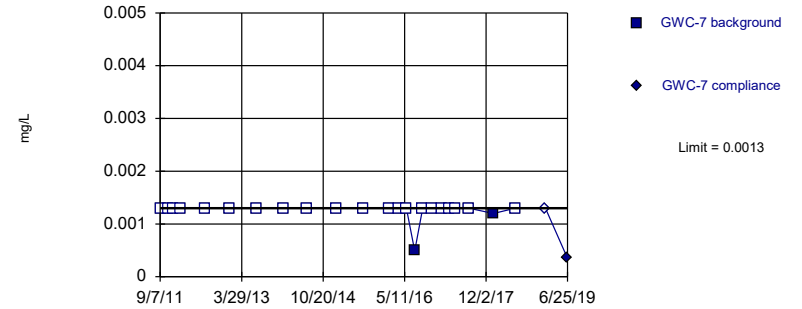


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

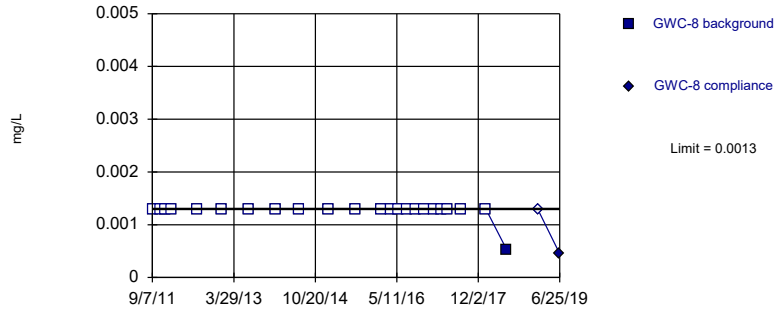


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

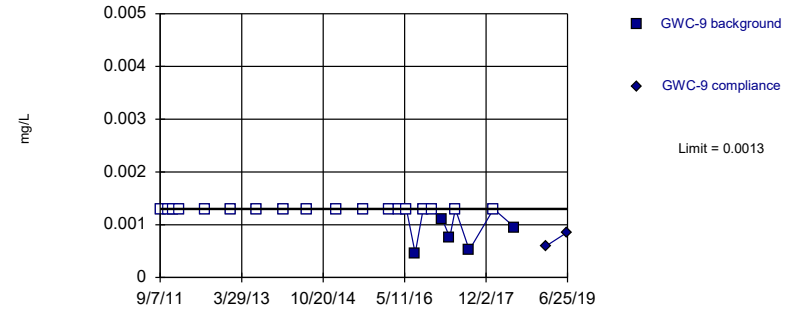


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Arsenic Intrawell Non-parametric

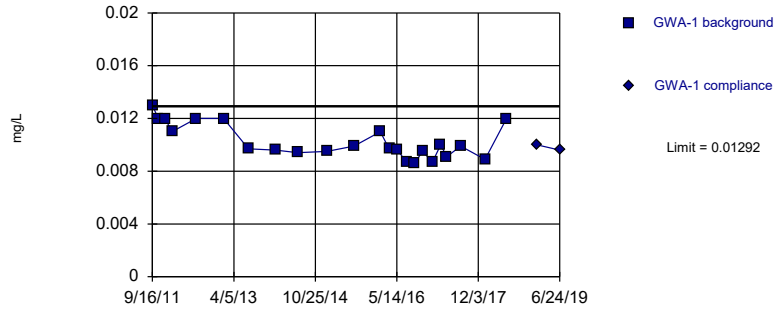


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

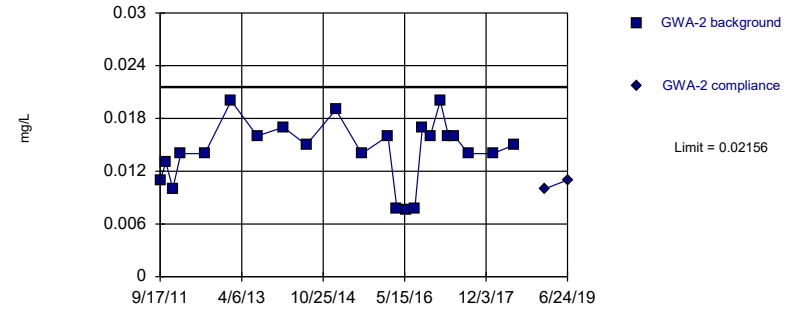


Background Data Summary: Mean=0.01025, Std. Dev.=0.001319, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8813, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

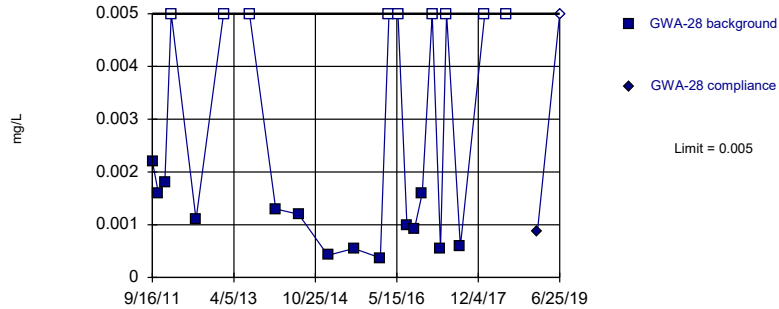


Background Data Summary: Mean=0.01435, Std. Dev.=0.003559, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Non-parametric

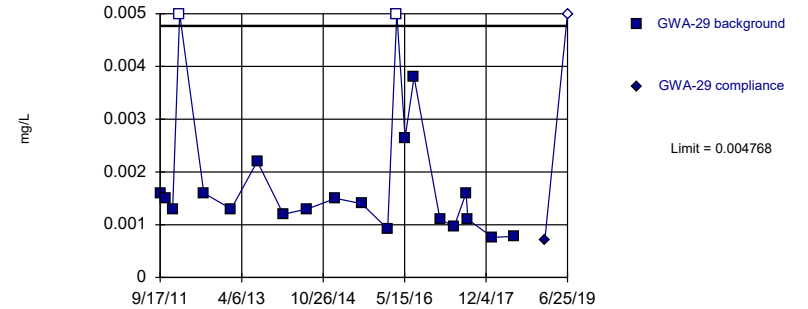


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 39.13% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric



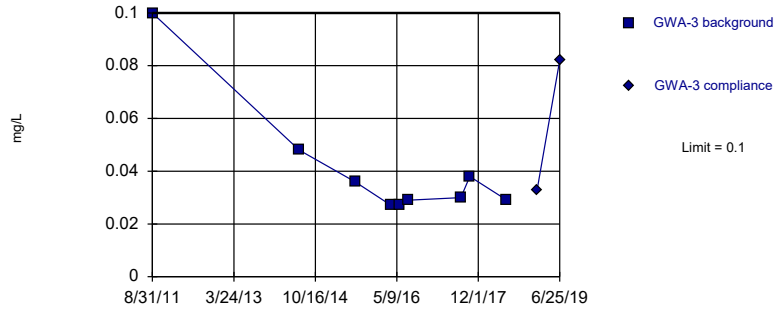
Background Data Summary (based on natural log transformation): Mean=-6.46, Std. Dev.=0.5402, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8886, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Barium  
Intrawell Non-parametric

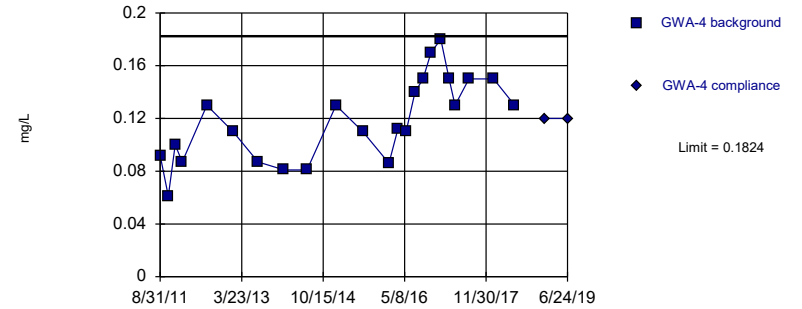


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

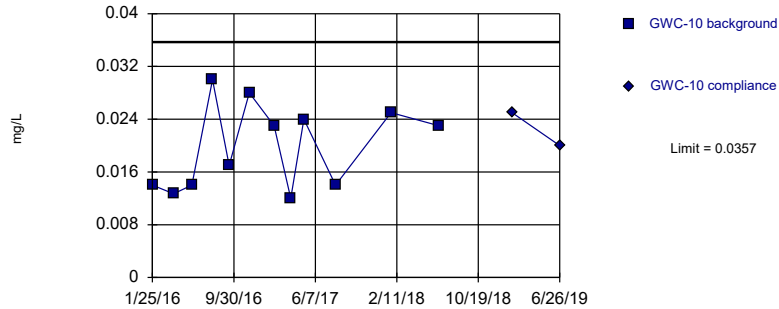


Background Data Summary: Mean=0.1186, Std. Dev.=0.03152, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9643, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

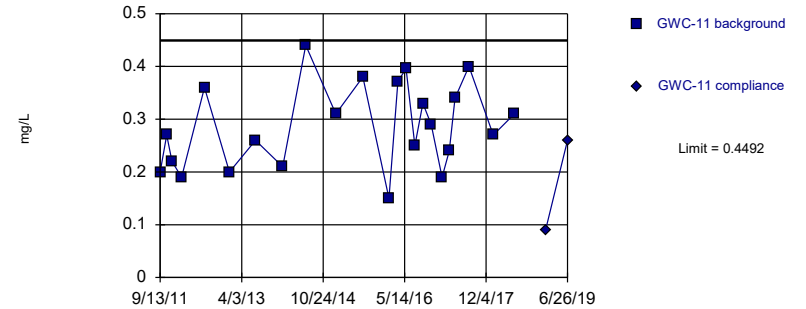


Background Data Summary: Mean=0.01973, Std. Dev.=0.006441, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8871, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

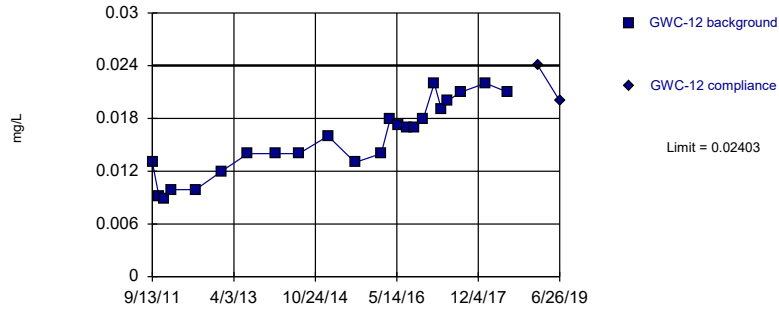


Background Data Summary: Mean=0.286, Std. Dev.=0.08062, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

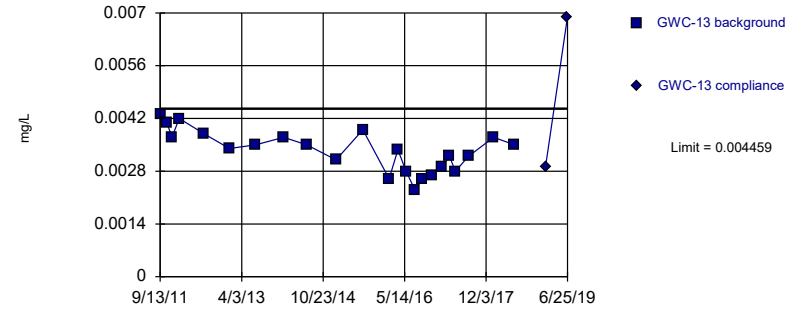


Background Data Summary: Mean=0.01566, Std. Dev.=0.004138, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9475, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

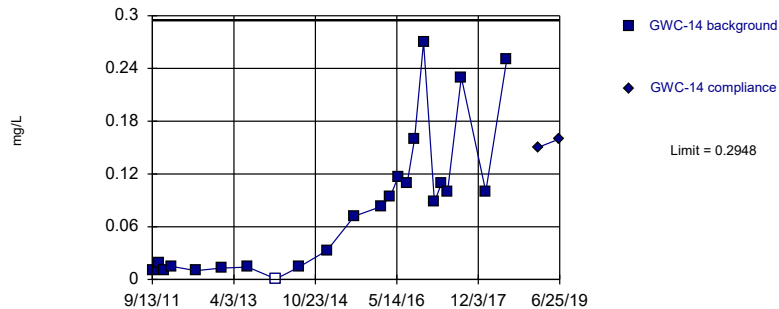


Background Data Summary: Mean=0.003342, Std. Dev.=0.0005516, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9727, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

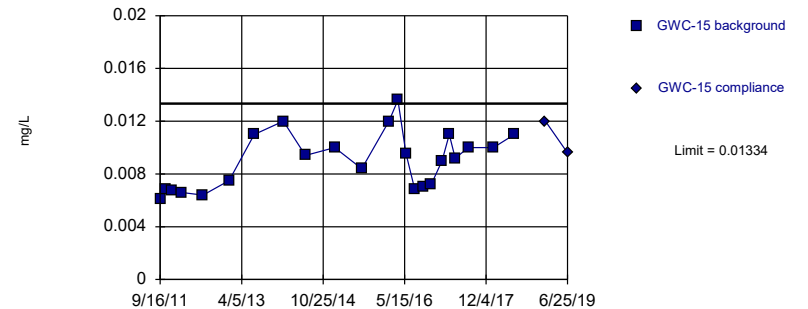


Background Data Summary (based on square root transformation): Mean=0.2531, Std. Dev.=0.1432, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9218, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

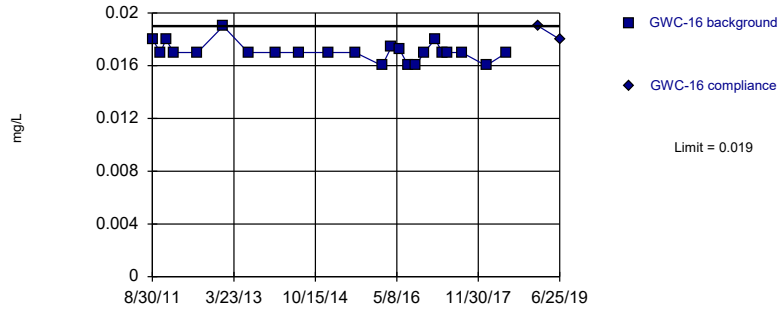


Background Data Summary: Mean=0.009012, Std. Dev.=0.002137, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Non-parametric

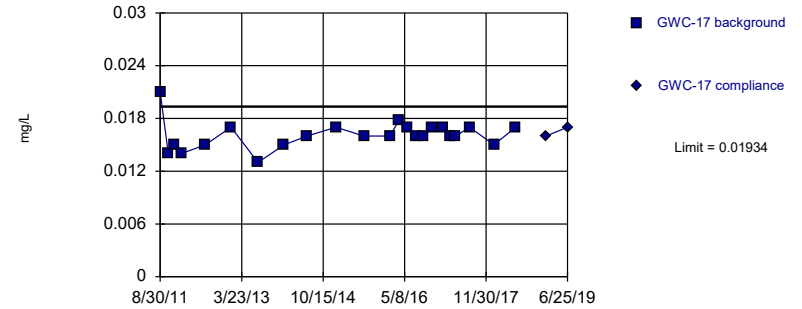


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:48 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

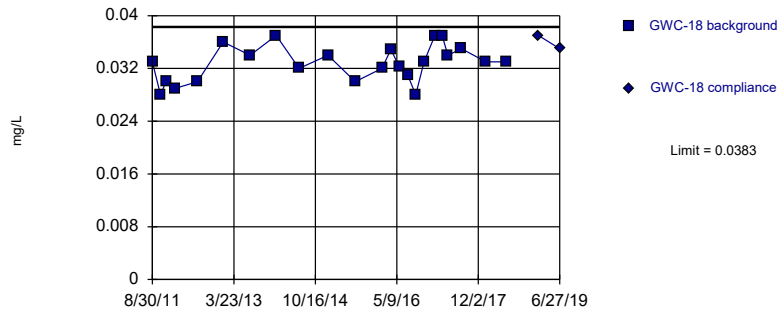


Background Data Summary: Mean=0.01612, Std. Dev.=0.001592, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8965, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

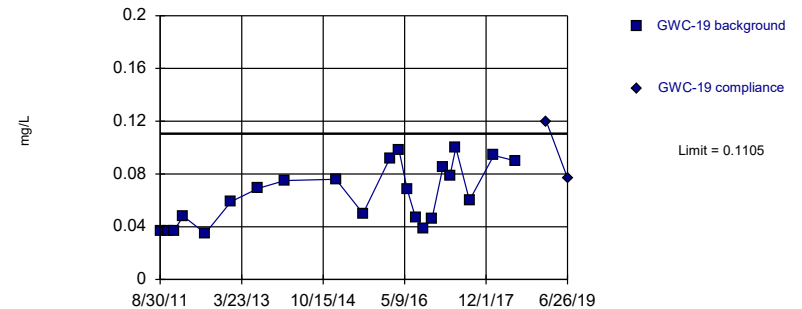


Background Data Summary: Mean=0.03275, Std. Dev.=0.002744, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9545, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

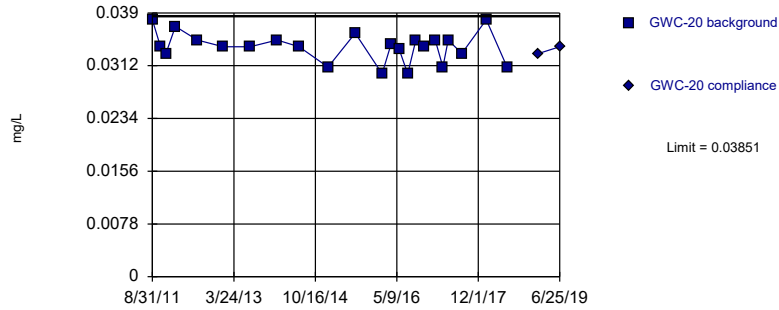


Background Data Summary: Mean=0.06465, Std. Dev.=0.02245, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9157, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

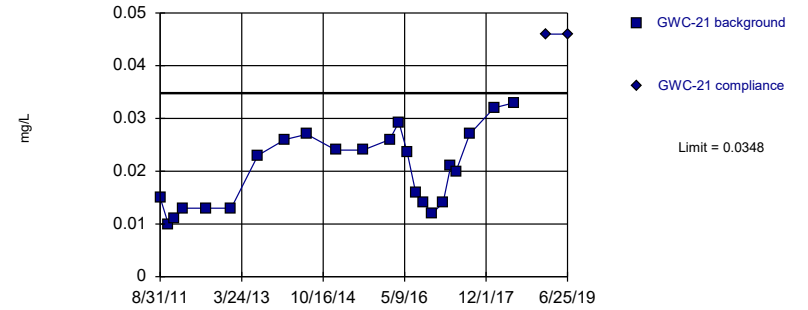


Background Data Summary: Mean=0.03396, Std. Dev.=0.002249, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9372, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Barium Intrawell Parametric

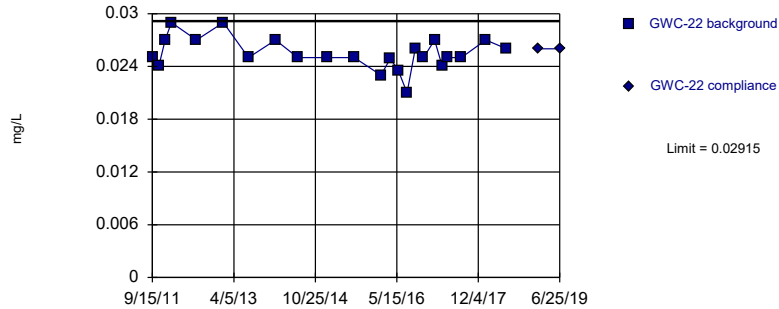


Background Data Summary: Mean=0.0203, Std. Dev.=0.007161, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9246, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

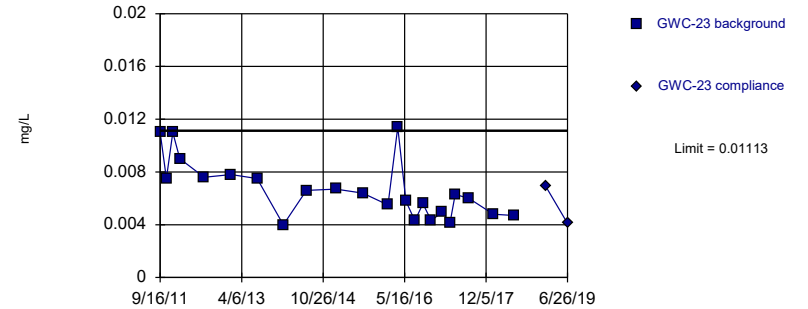


Background Data Summary: Mean=0.02545, Std. Dev.=0.001829, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9363, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

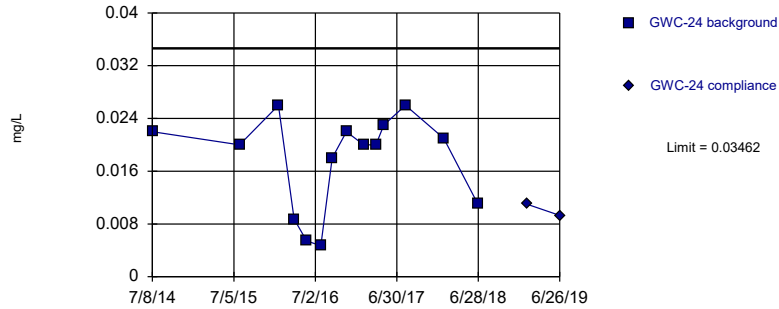


Background Data Summary: Mean=0.006647, Std. Dev.=0.002215, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8938, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

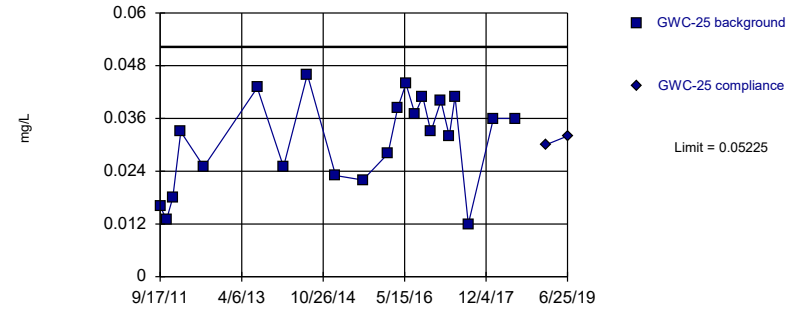


Background Data Summary: Mean=0.01771, Std. Dev.=0.0072, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8591, critical = 0.825. Kappa = 2.349 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

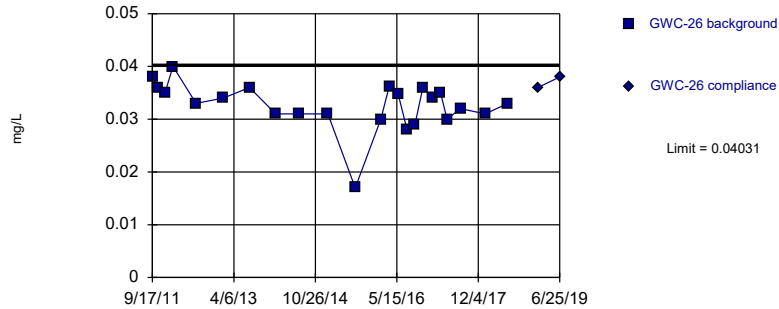


Background Data Summary: Mean=0.03101, Std. Dev.=0.0104, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

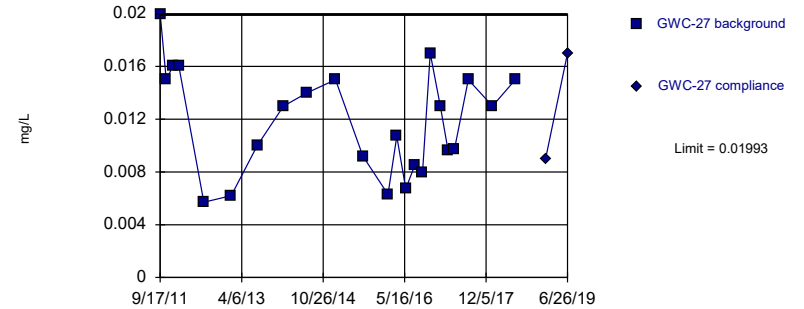


Background Data Summary (based on square transformation): Mean=0.001086, Std. Dev.=0.0002664, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9358, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

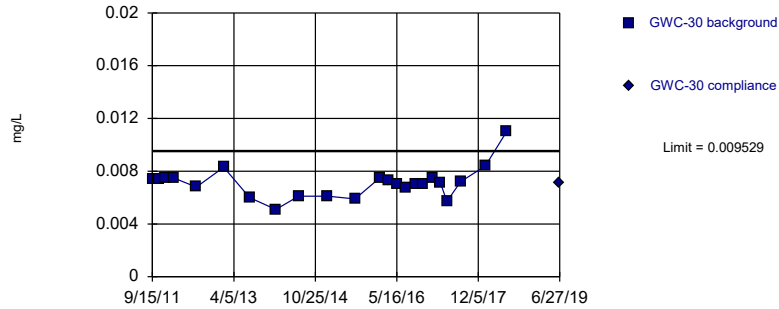


Background Data Summary: Mean=0.01185, Std. Dev.=0.003989, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

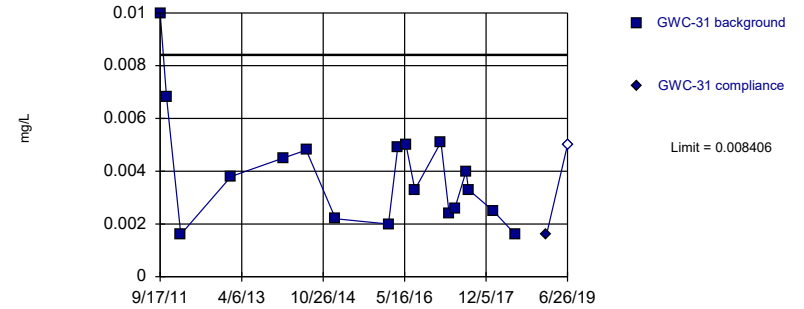


Background Data Summary (based on square root transformation): Mean=0.08407, Std. Dev.=0.006692, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:49 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

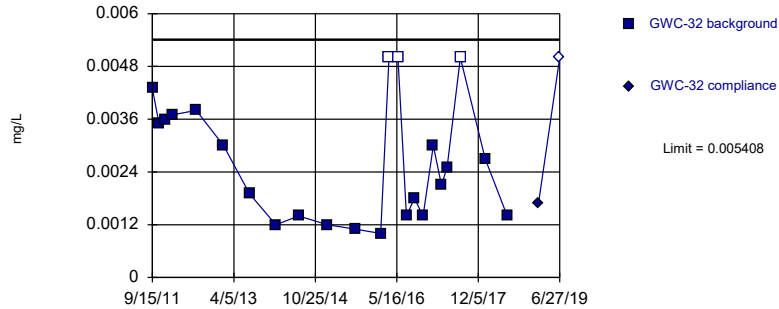


Background Data Summary: Mean=0.003913, Std. Dev.=0.002089, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8697, critical = 0.858. Kappa = 2.15 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

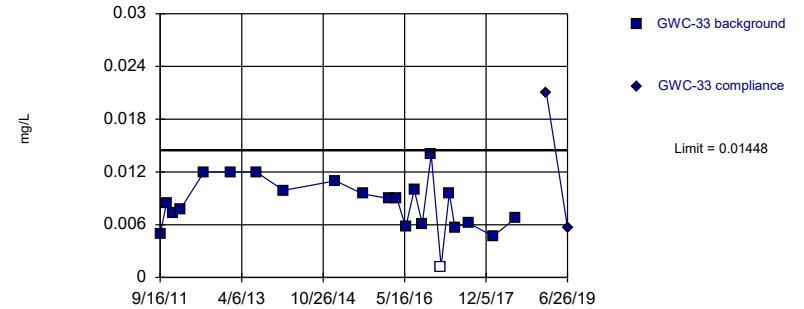


Background Data Summary: Mean=0.002652, Std. Dev.=0.001361, n=23, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8981, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

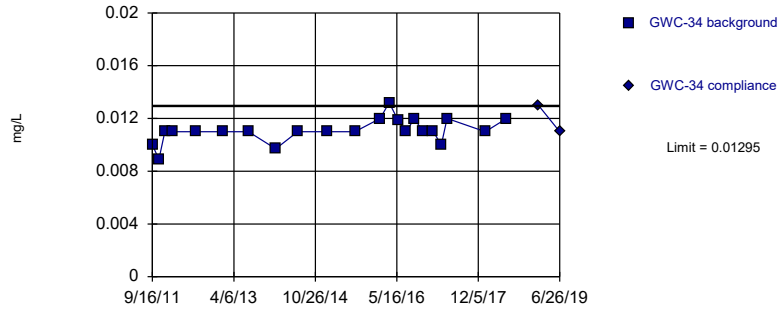


Background Data Summary: Mean=0.008309, Std. Dev.=0.003018, n=22, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9796, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

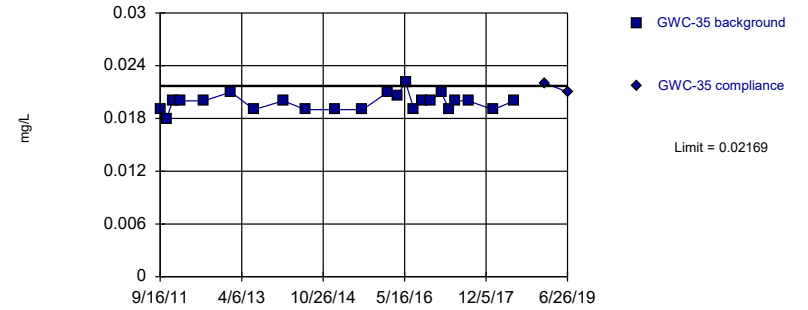


Background Data Summary: Mean=0.01108, Std. Dev.=0.000916, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8839, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

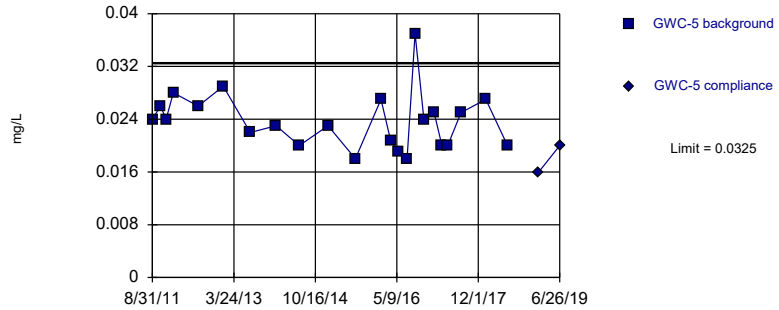


Background Data Summary: Mean=0.01981, Std. Dev.=0.0009285, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9061, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

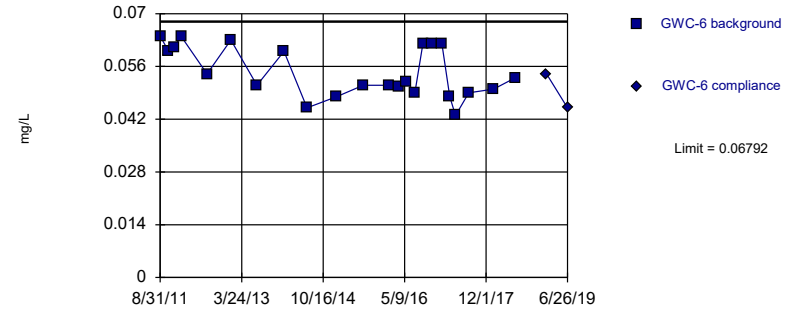


Background Data Summary: Mean=0.02373, Std. Dev.=0.004334, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9097, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Barium Intrawell Parametric

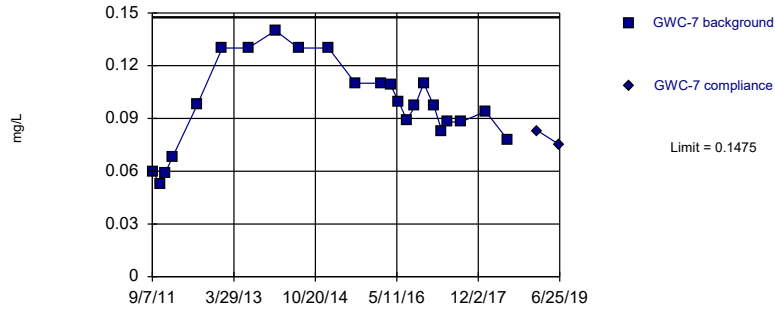


Background Data Summary: Mean=0.05446, Std. Dev.=0.006649, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8995, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

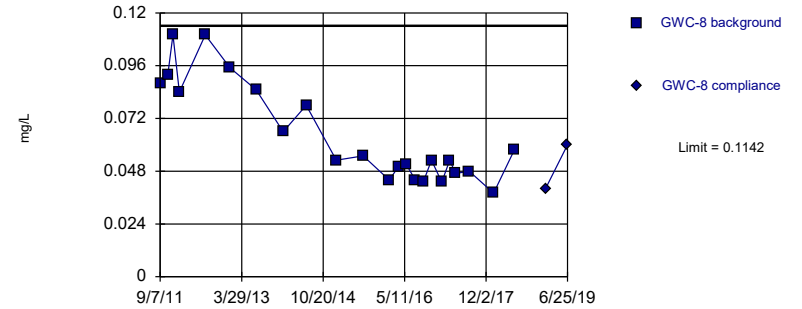


Background Data Summary: Mean=0.09785, Std. Dev.=0.02452, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

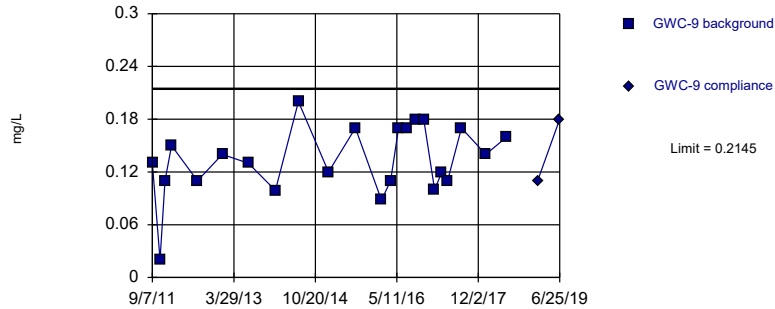


Background Data Summary (based on square root transformation): Mean=0.2509, Std. Dev.=0.04301, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8862, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Barium  
Intrawell Parametric

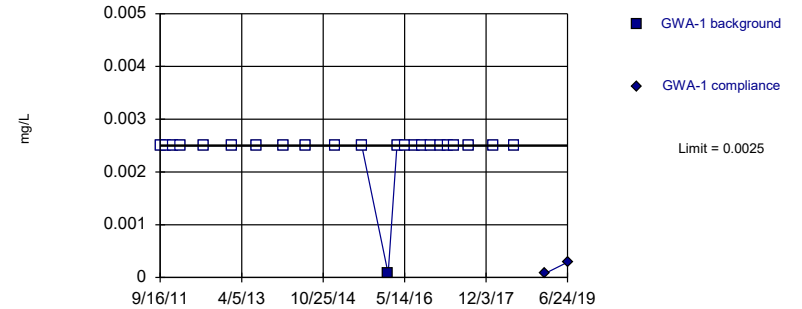


Background Data Summary: Mean=0.1338, Std. Dev.=0.03988, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Beryllium  
Intrawell Non-parametric



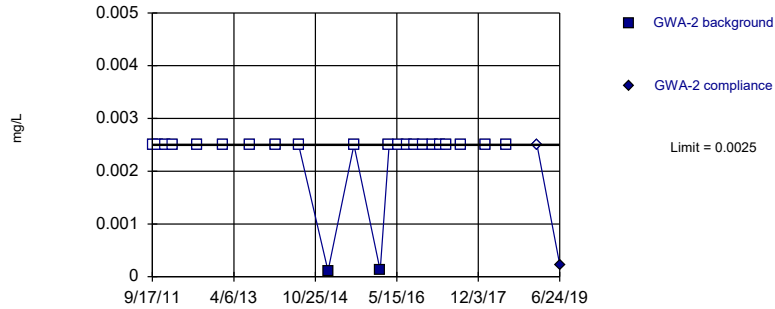
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

**Beryllium**  
Intrawell Non-parametric

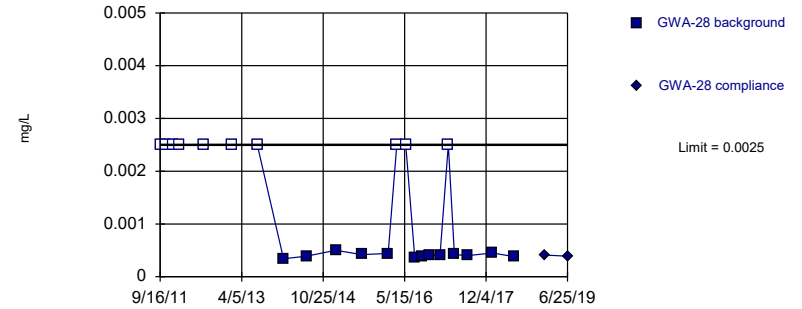


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Beryllium**  
Intrawell Non-parametric

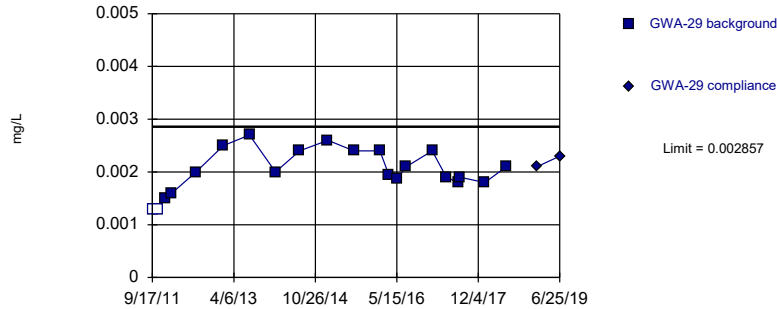


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01, alpha level. Limit is highest of 23 background values. 43.48% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Beryllium**  
Intrawell Parametric

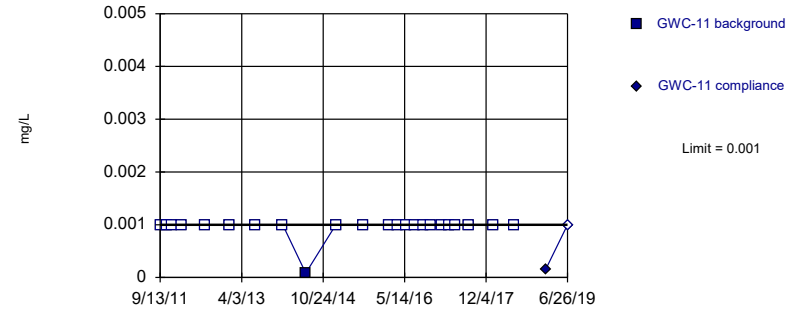


Background Data Summary: Mean=0.002025, Std. Dev.=0.0004034, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Beryllium**  
Intrawell Non-parametric

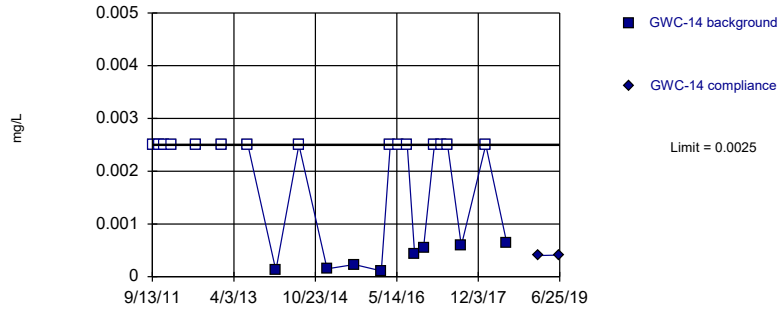


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

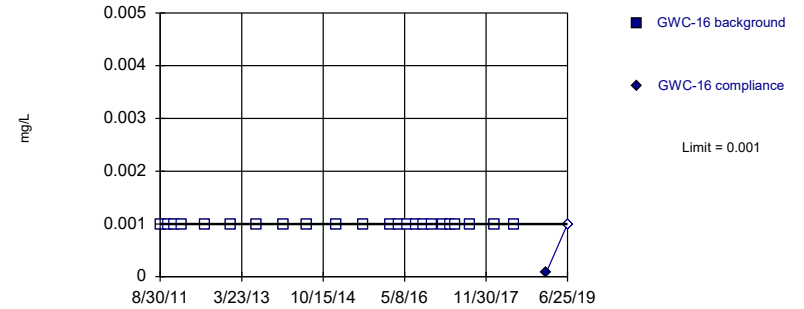


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 65.22% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

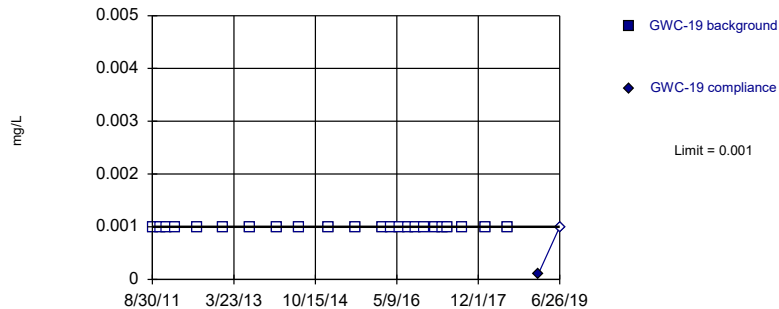


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

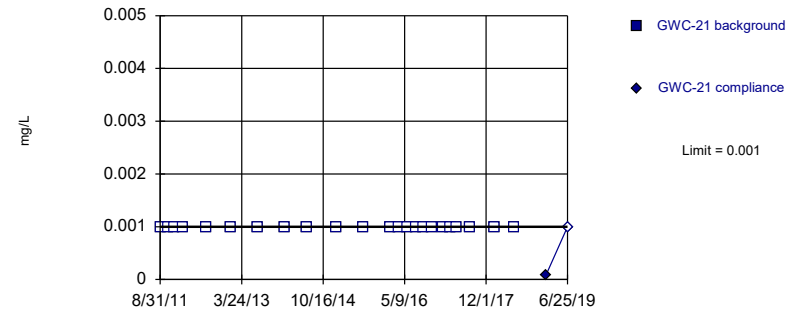


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

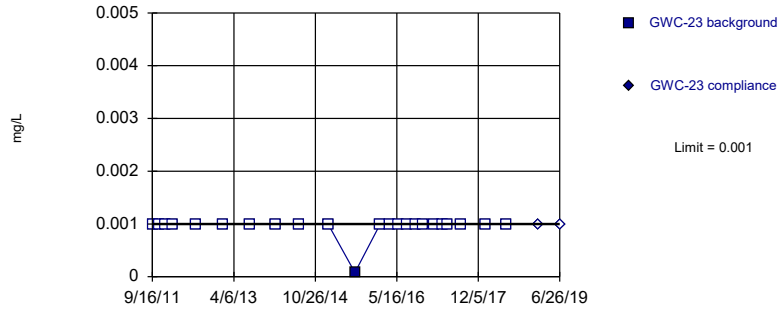


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

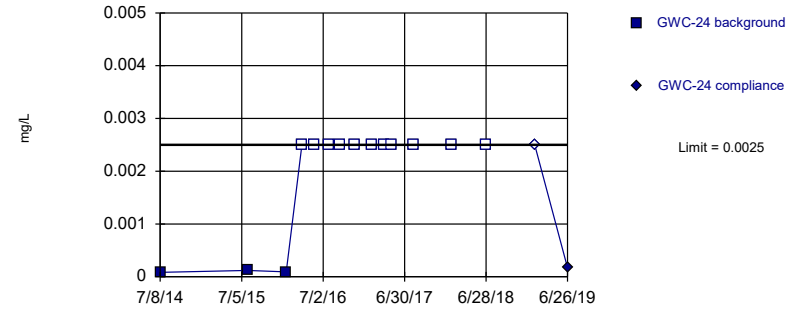


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

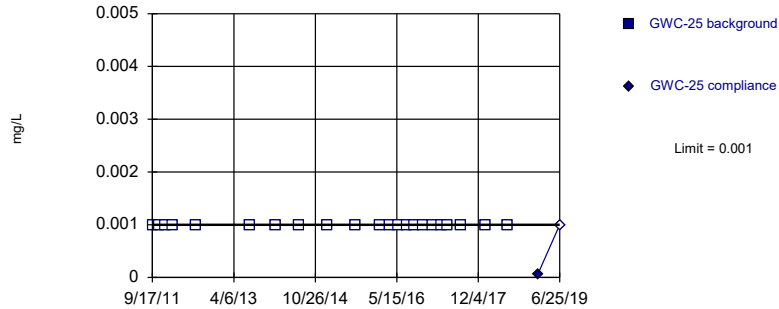


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:50 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

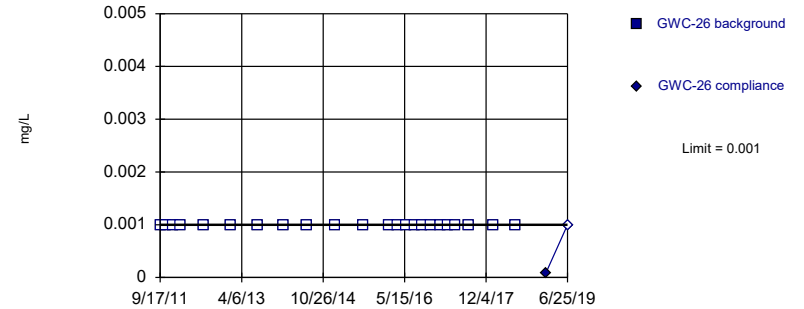


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

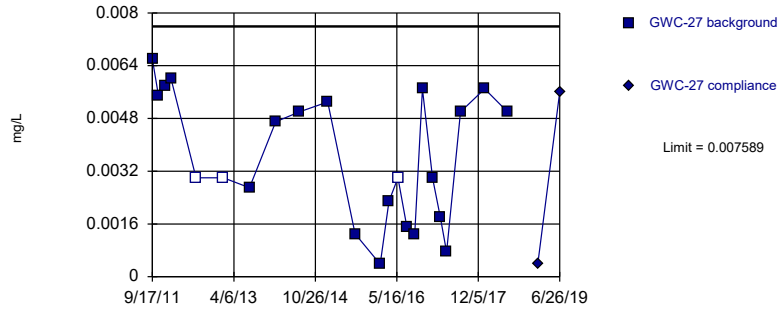


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Beryllium  
Intrawell Parametric

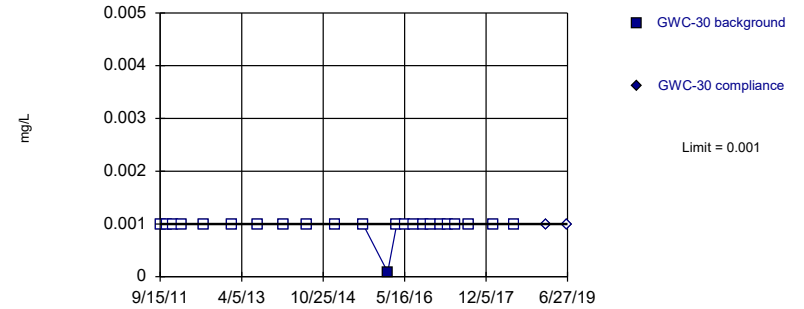


Background Data Summary: Mean=0.003666, Std. Dev.=0.001938, n=23, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9178, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Beryllium  
Intrawell Non-parametric

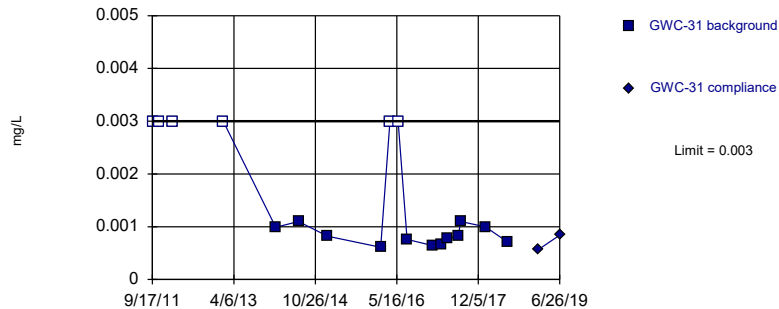


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Beryllium  
Intrawell Non-parametric

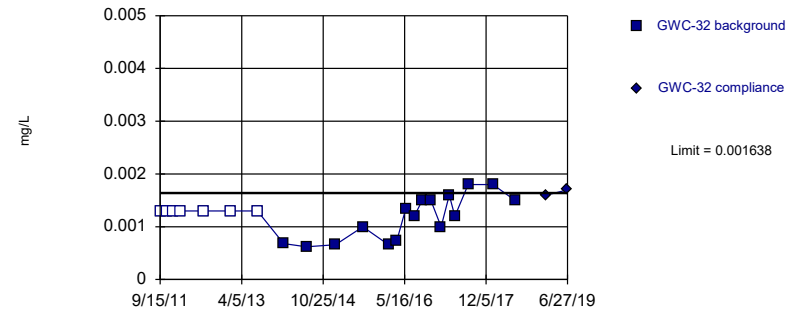


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Beryllium  
Intrawell Parametric

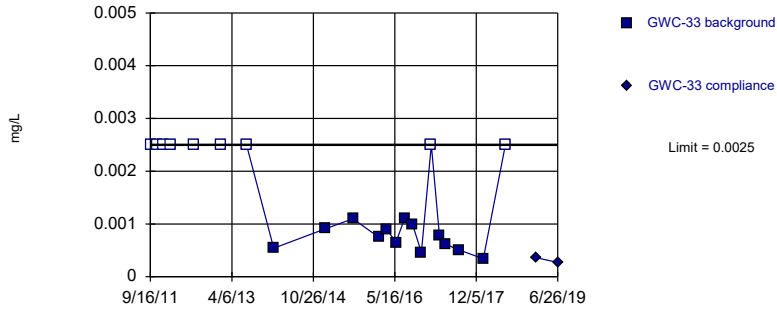


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0009112, Std. Dev.=0.0003589, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9131, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

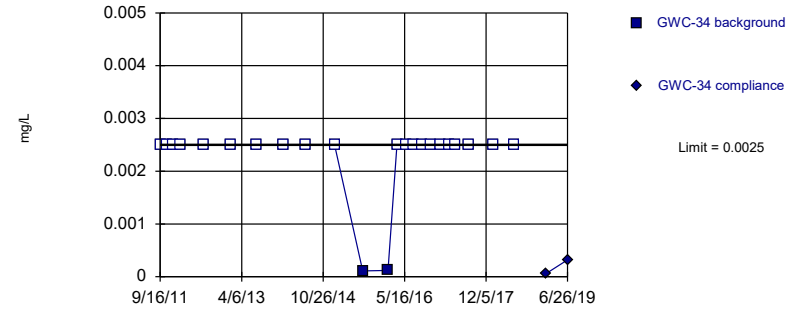


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 40.91% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

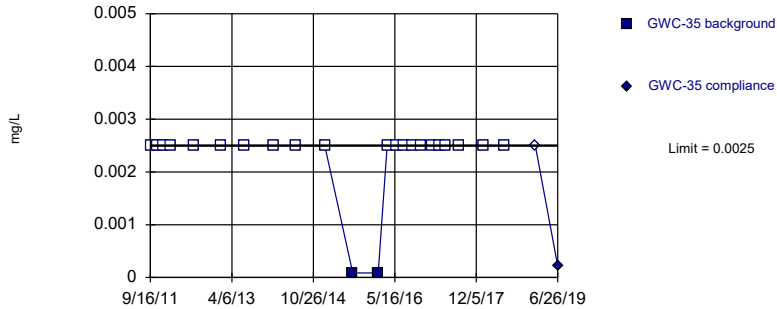


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

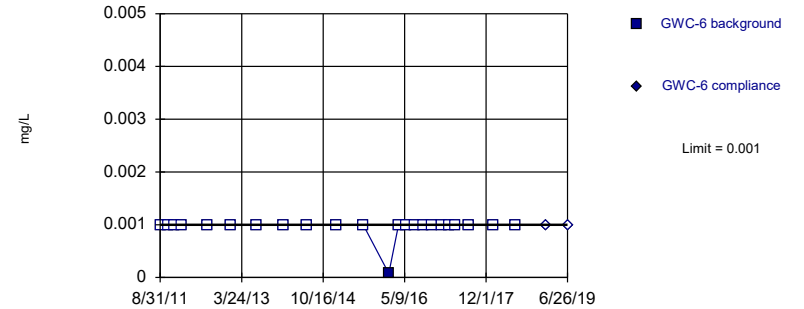


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

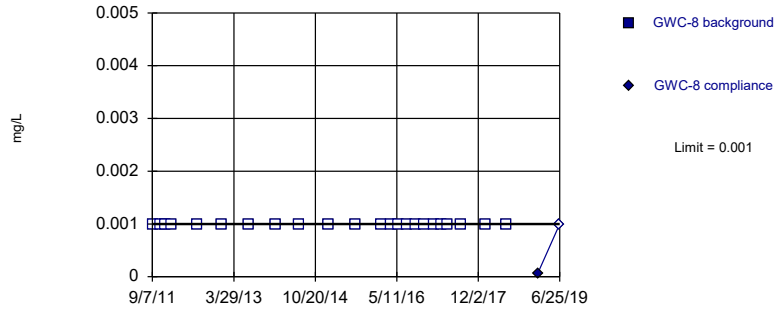


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

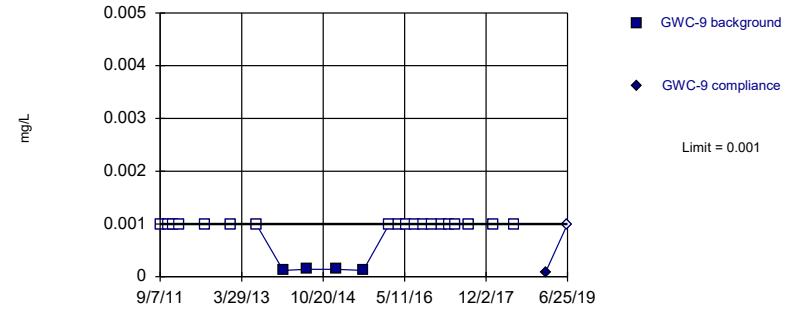


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Beryllium Intrawell Non-parametric

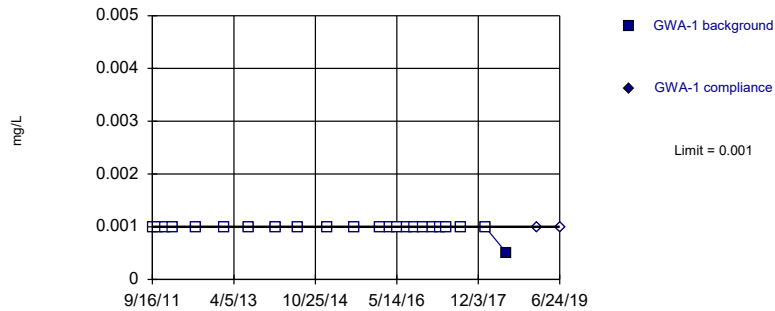


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cadmium Intrawell Non-parametric

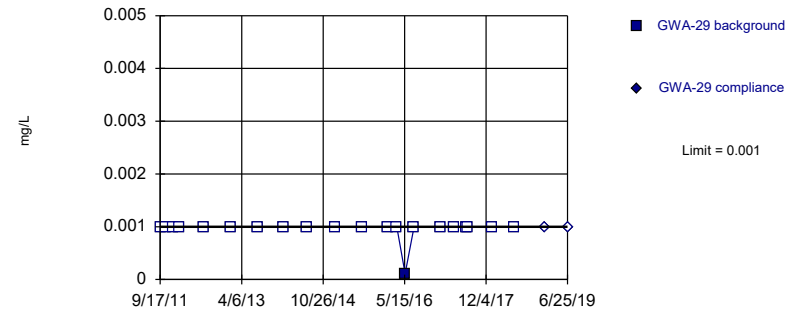


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cadmium Intrawell Non-parametric

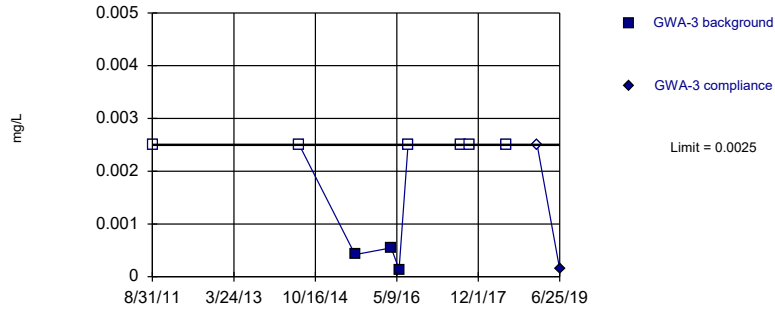


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cadmium Intrawell Non-parametric

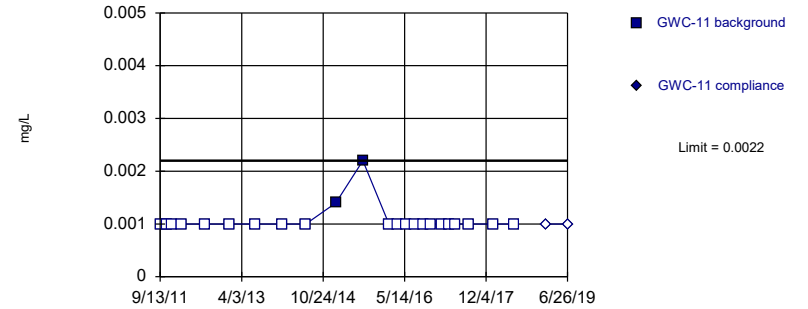


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cadmium Intrawell Non-parametric

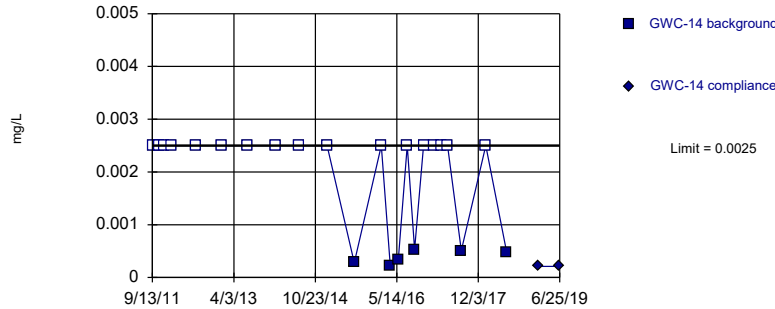


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cadmium Intrawell Non-parametric

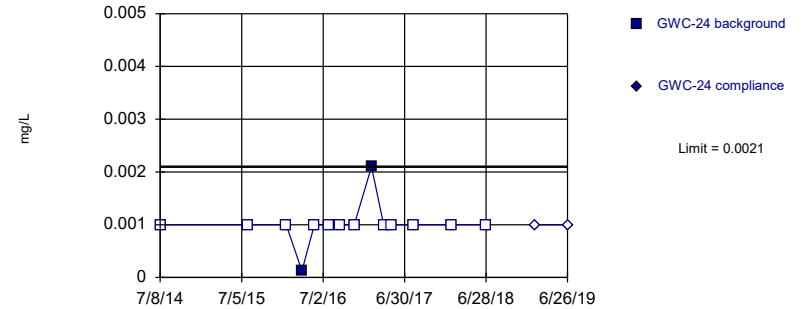


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 73.91% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cadmium Intrawell Non-parametric

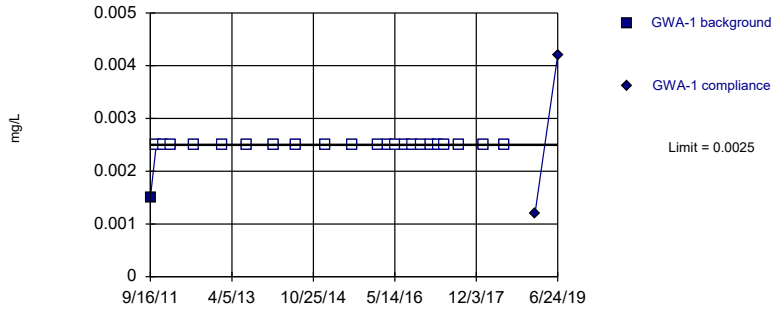


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

**Chromium**  
Intrawell Non-parametric

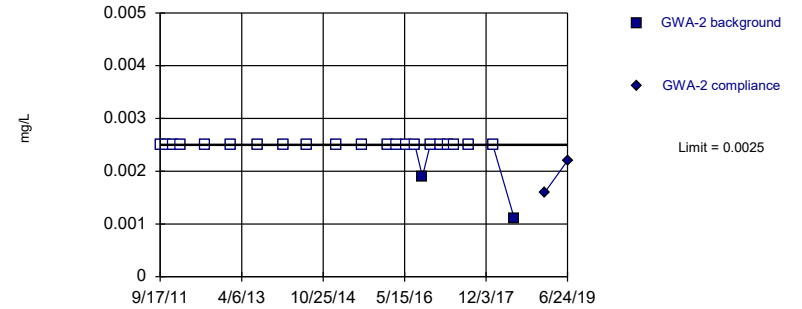


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

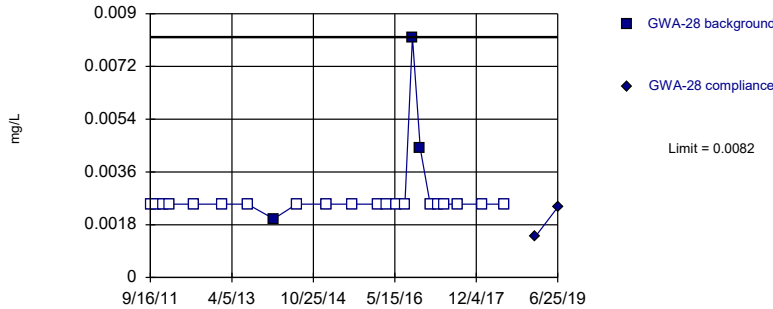


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

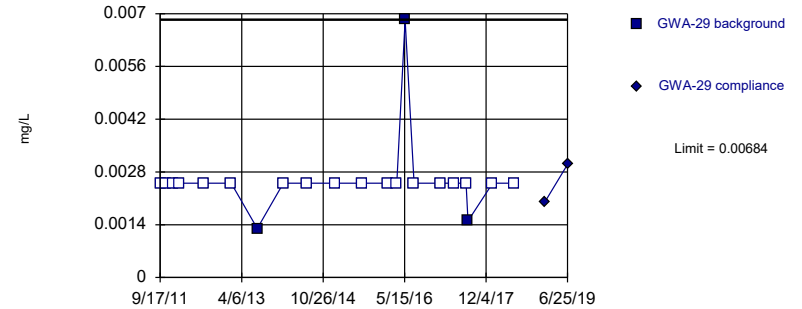


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric



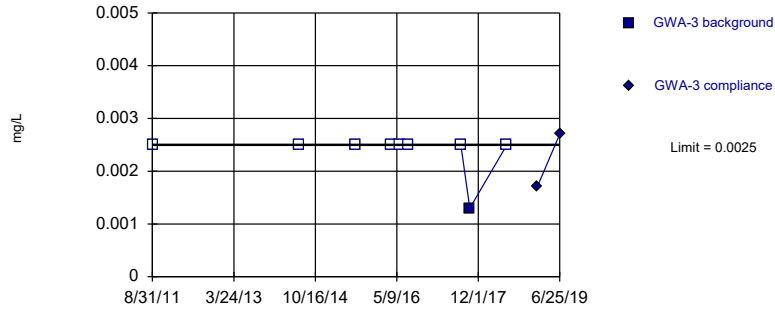
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Exceeds Limit

**Chromium**  
Intrawell Non-parametric

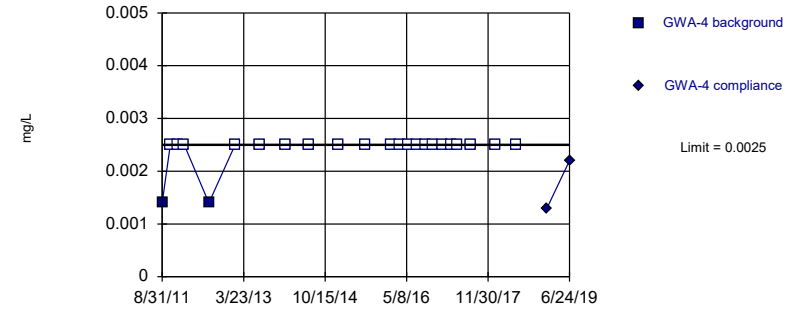


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

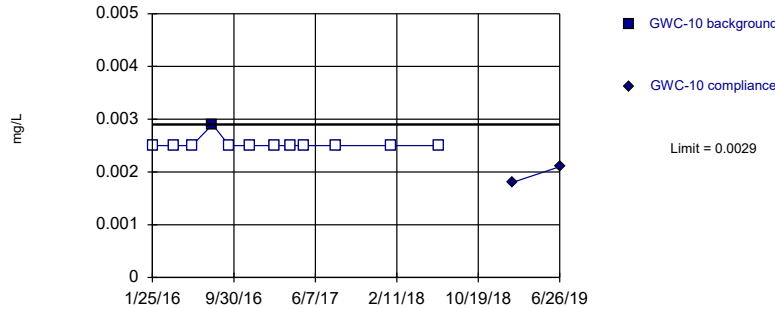


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:51 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

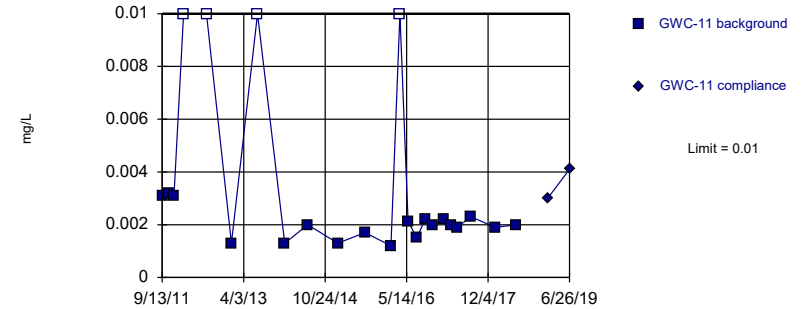


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

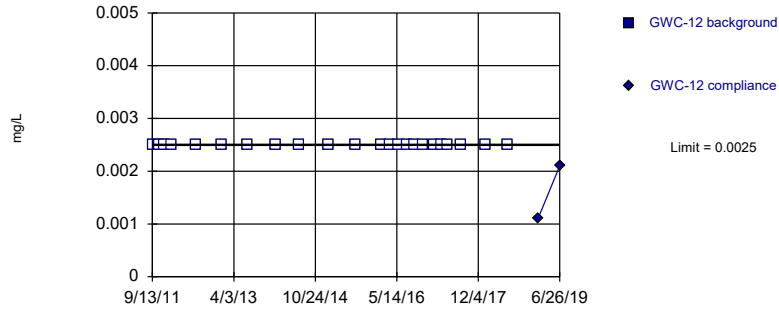


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 17.39% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

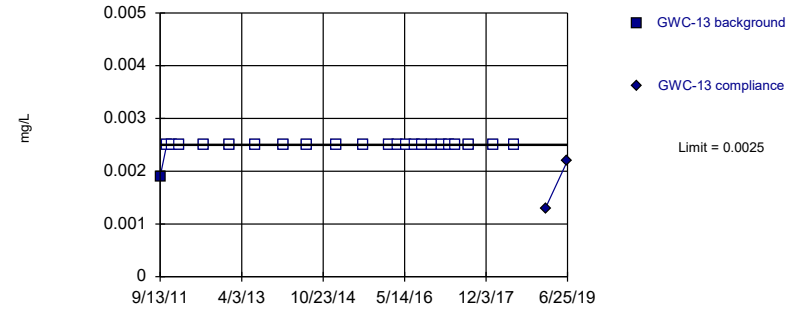


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

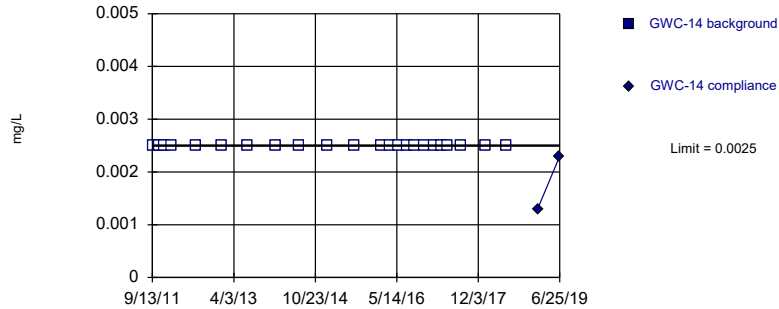


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

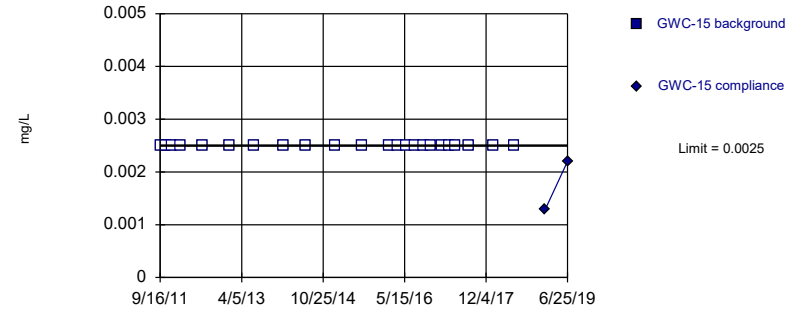


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

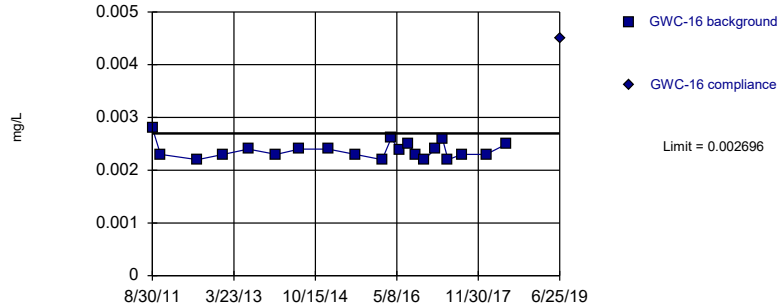


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Chromium Intrawell Parametric

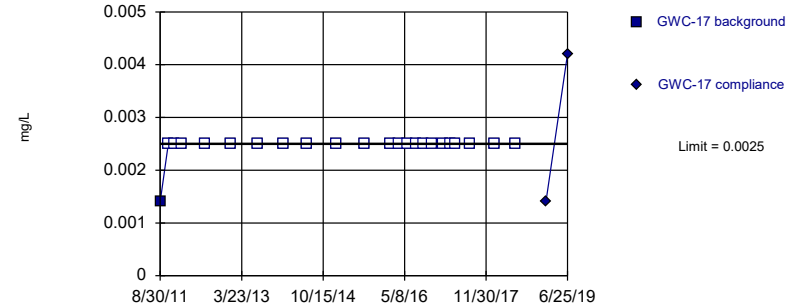


Background Data Summary: Mean=0.002376, Std. Dev.=0.0001553, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8789, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Chromium Intrawell Non-parametric

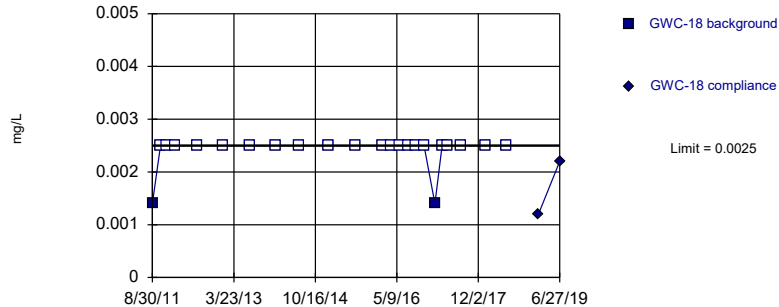


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

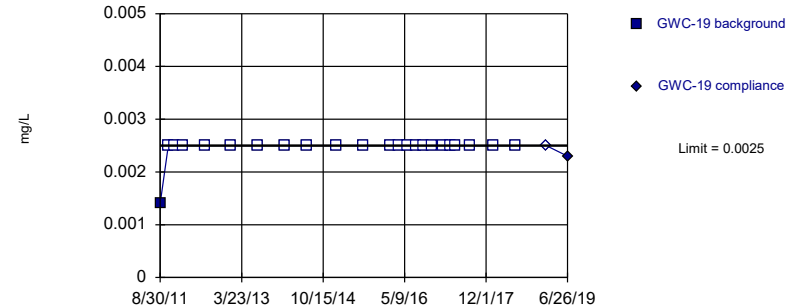


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

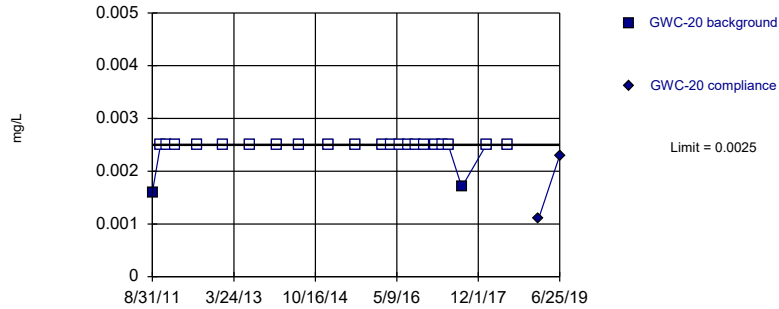


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

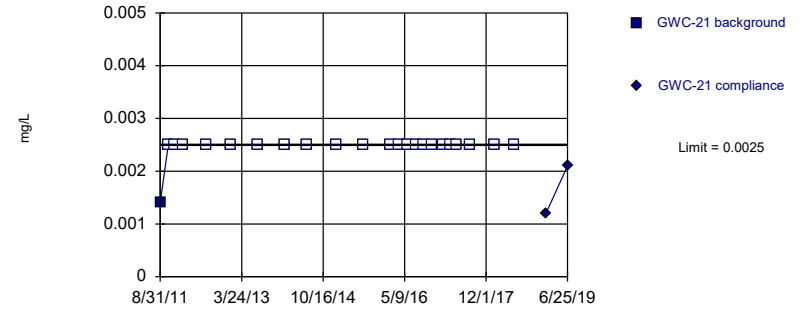


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

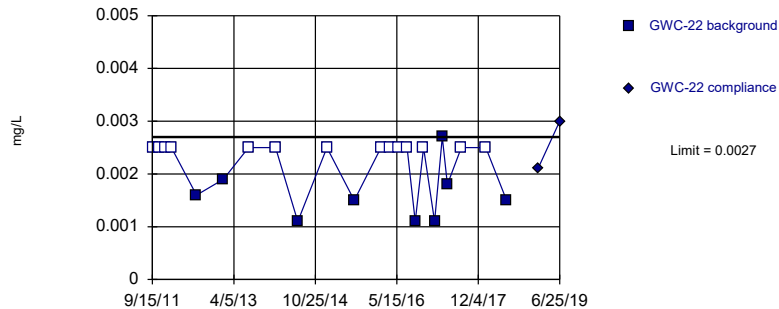


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Chromium Intrawell Non-parametric

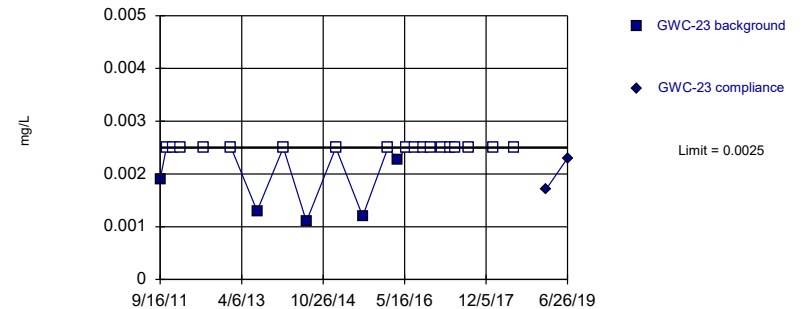


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 60.87% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

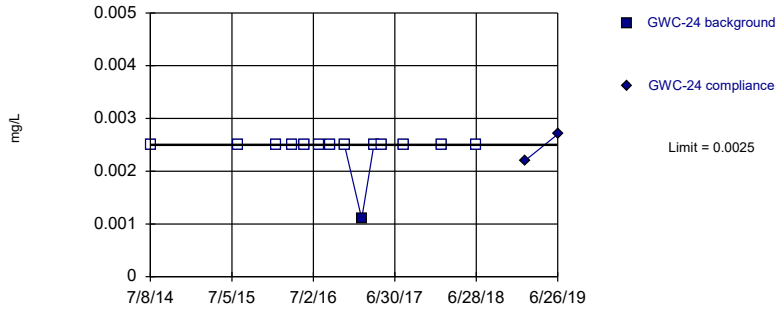


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Chromium Intrawell Non-parametric

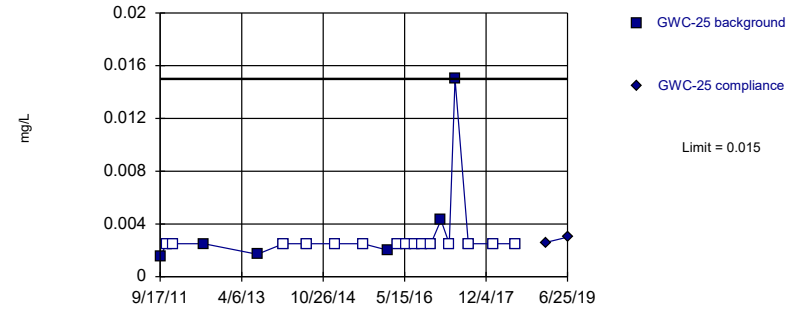


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

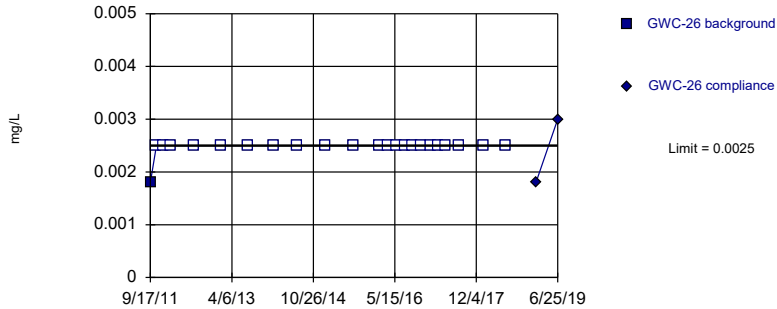


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Chromium Intrawell Non-parametric

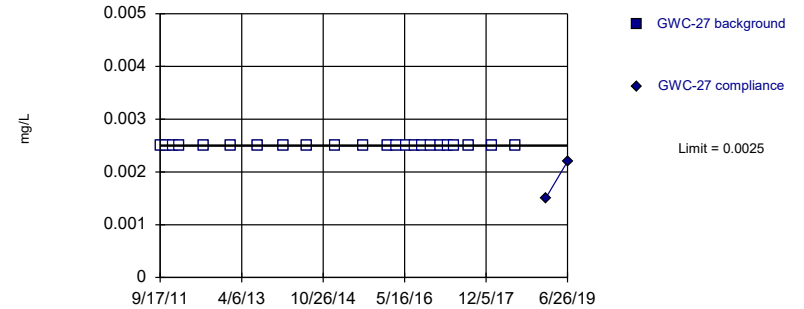


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

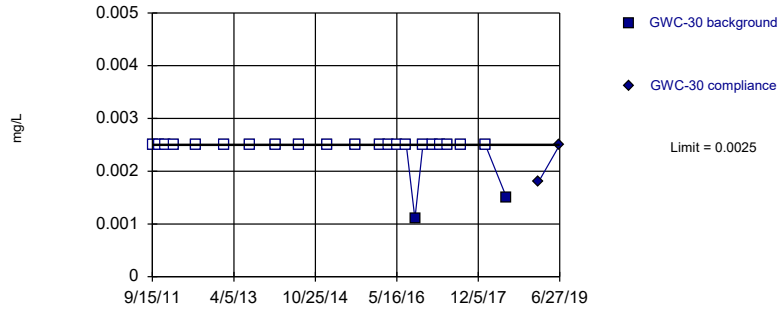


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:52 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

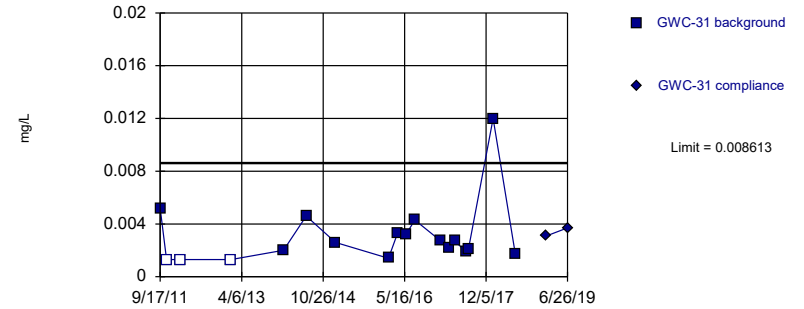


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Parametric

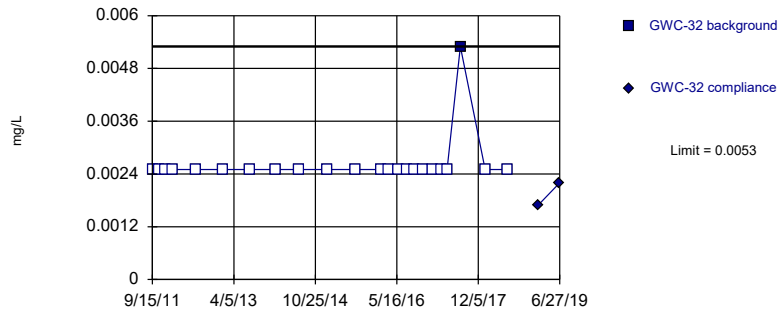


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.991, Std. Dev.=0.575, n=18, 16.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9177, critical = 0.858. Kappa = 2.15 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

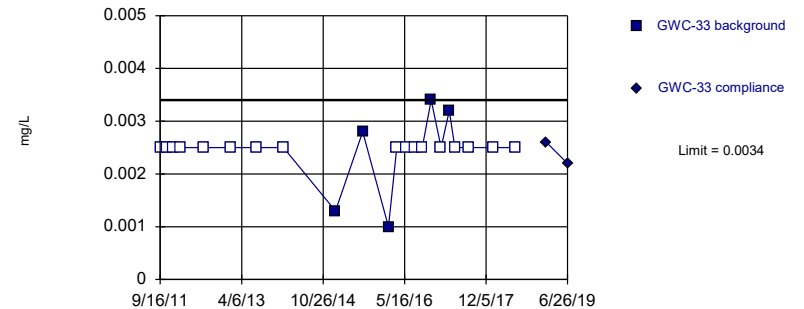


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

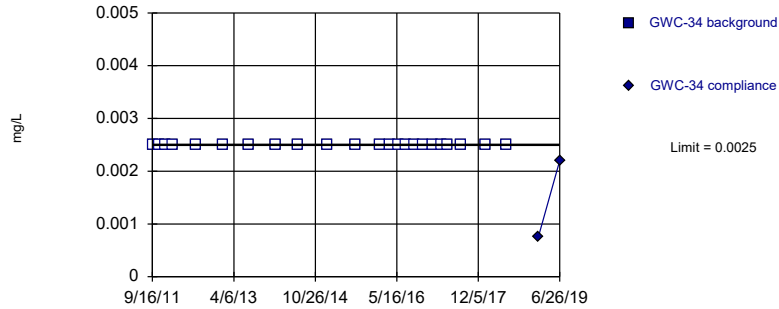


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 77.27% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

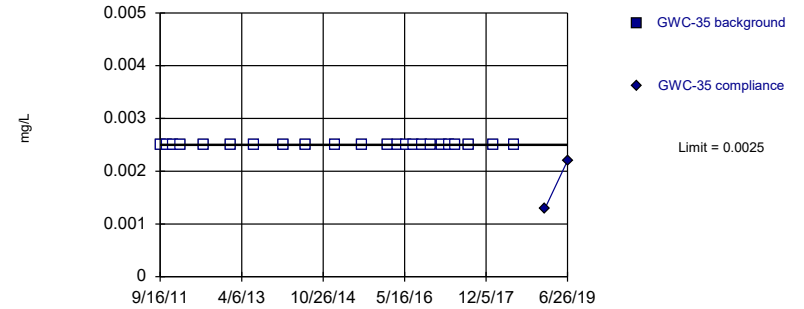


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Chromium**  
Intrawell Non-parametric

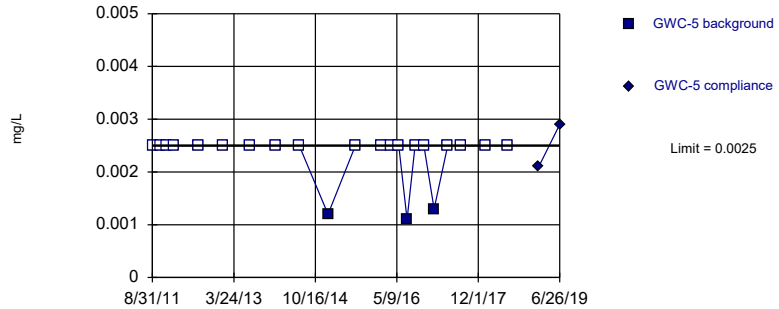


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

**Chromium**  
Intrawell Non-parametric

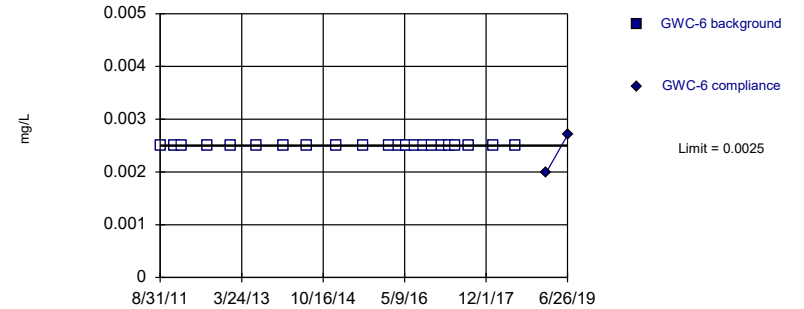


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

**Chromium**  
Intrawell Non-parametric

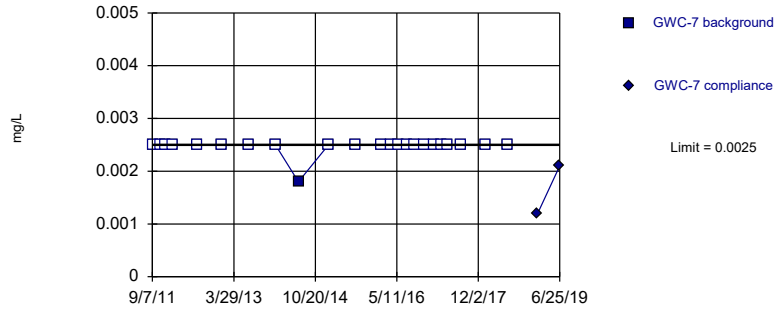


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

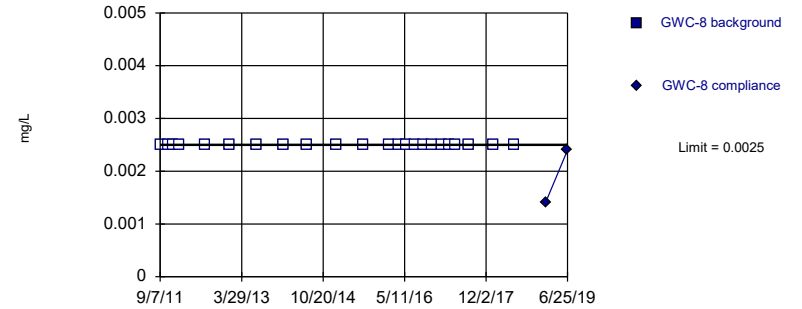


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Chromium Intrawell Non-parametric

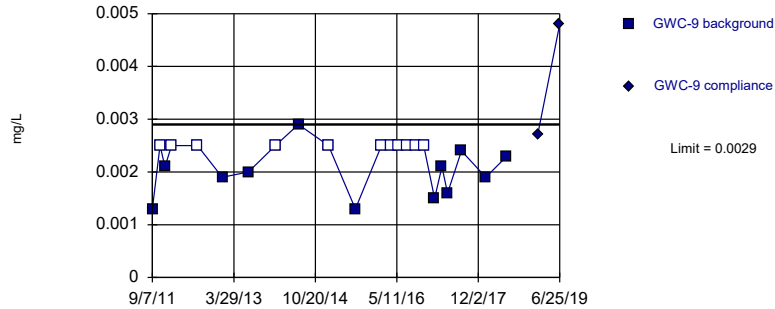


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Chromium Intrawell Non-parametric

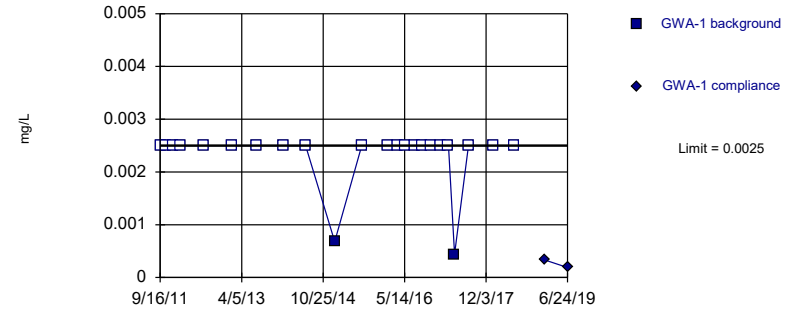


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 47.83% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cobalt Intrawell Non-parametric



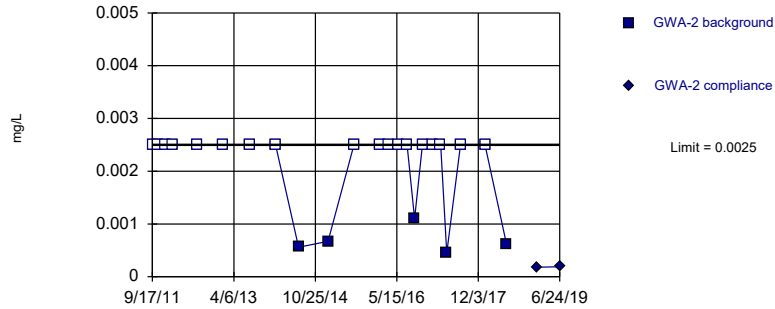
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

**Cobalt**  
Intrawell Non-parametric

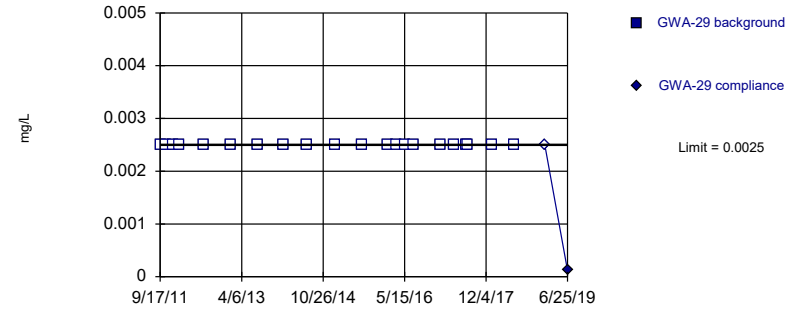


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

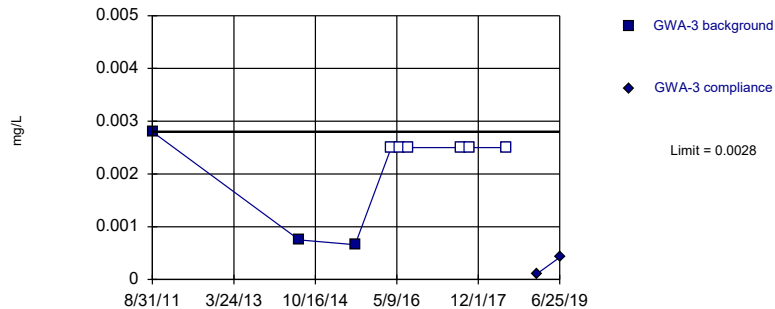


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

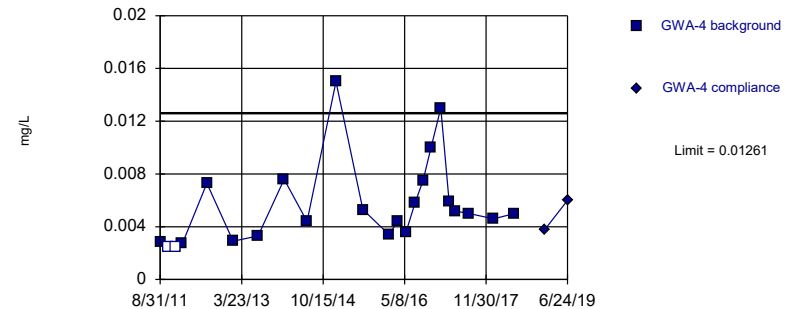


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

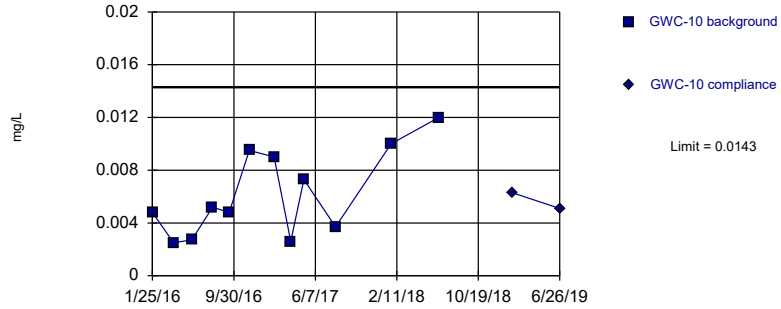


Background Data Summary (based on square root transformation): Mean=0.07262, Std. Dev.=0.01959, n=23, 8.696% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8982, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

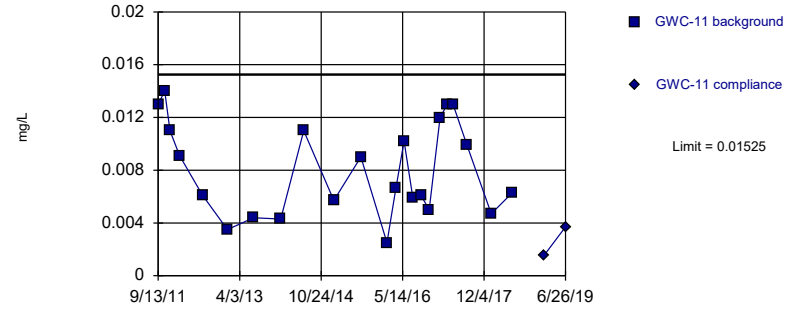


Background Data Summary: Mean=0.006177, Std. Dev.=0.003274, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9058, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:53 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

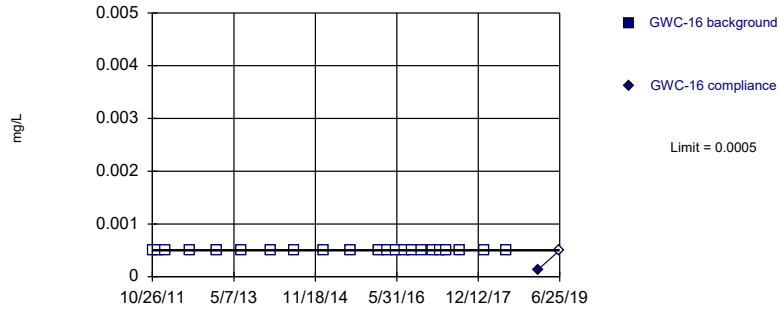
Within Limit

**Cobalt**  
Intrawell Parametric



Within Limit

**Cobalt**  
Intrawell Non-parametric

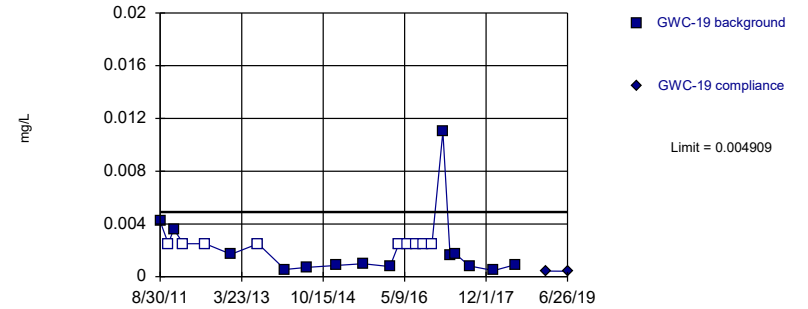


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

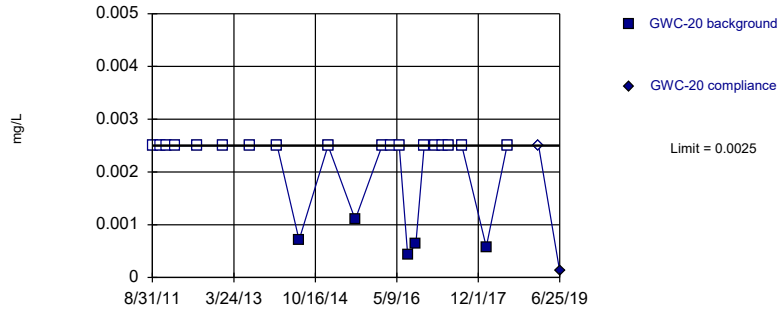


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.817, Std. Dev.=0.7411, n=23, 39.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9238, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

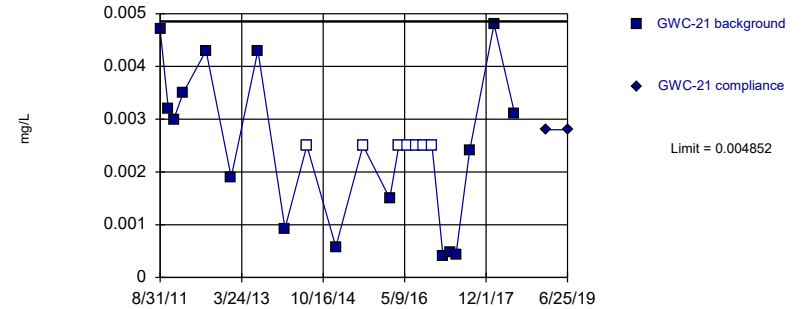


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

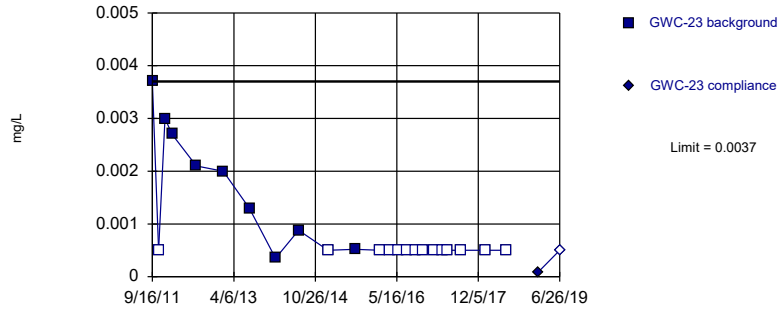


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001925, Std. Dev.=0.001446, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.929, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

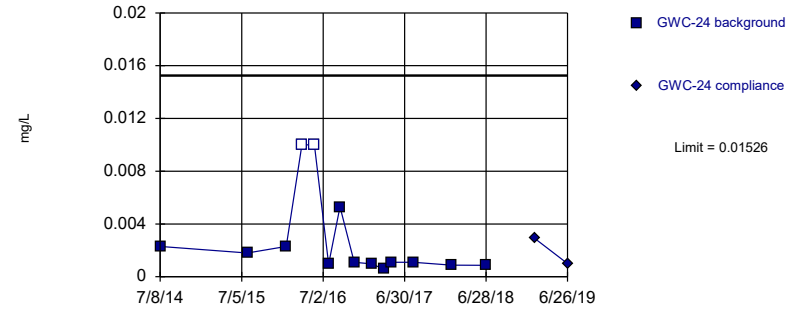


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 60.87% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

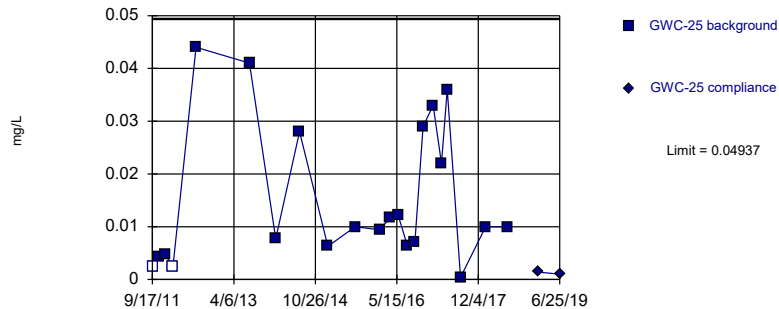


Background Data Summary (based on natural log transformation): Mean=-6.342, Std. Dev.=0.9191, n=14, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8439, critical = 0.825. Kappa = 2.349 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

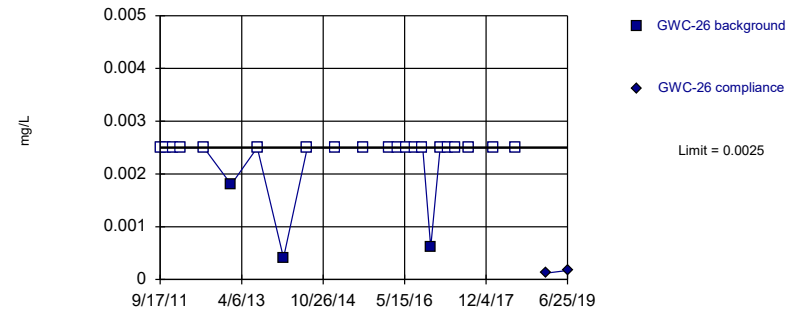


Background Data Summary (based on square root transformation): Mean=0.1123, Std. Dev.=0.05377, n=22, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

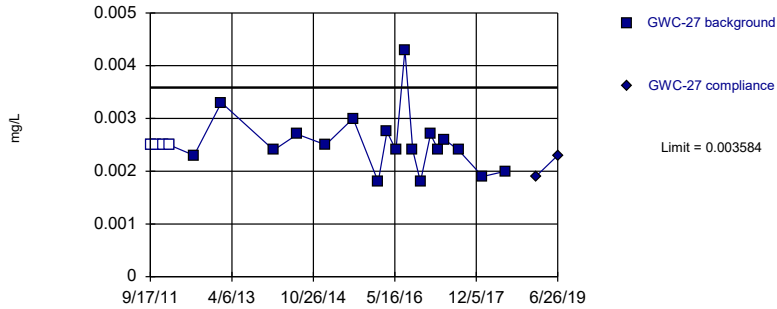


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

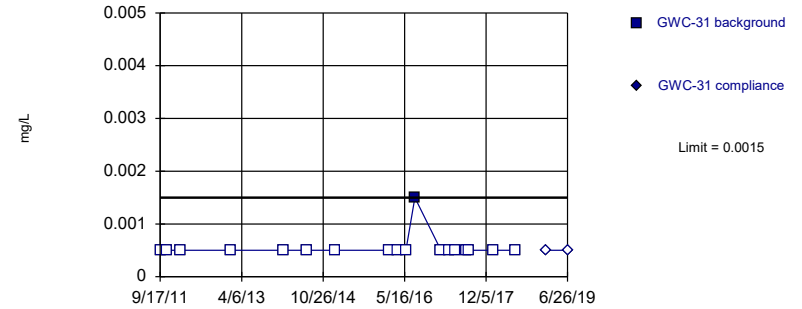


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1317, Std. Dev.=0.01042, n=22, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8811, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:54 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

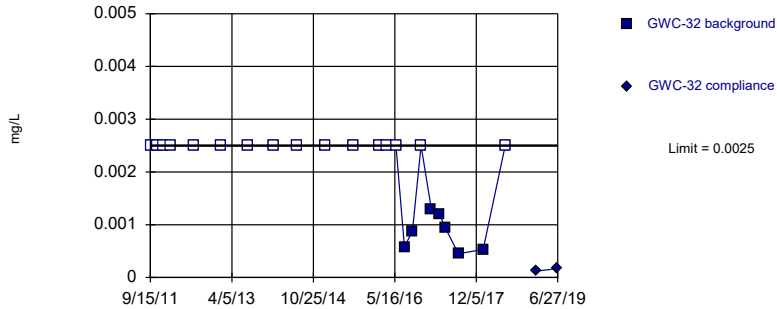


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:55 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

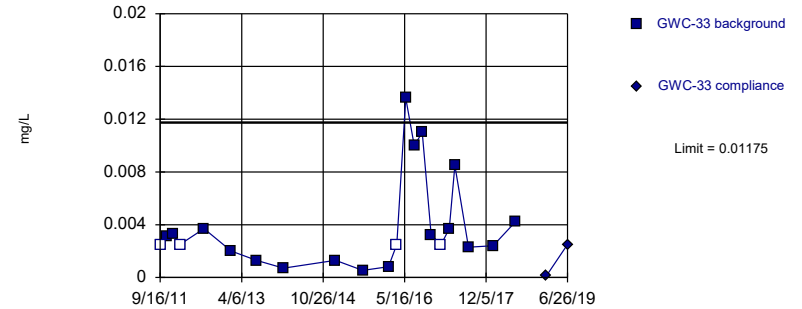


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 69.57% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:55 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

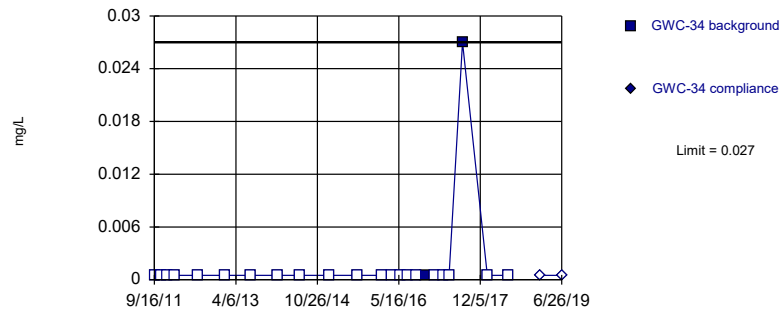


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05328, Std. Dev.=0.02697, n=22, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8812, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:55 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

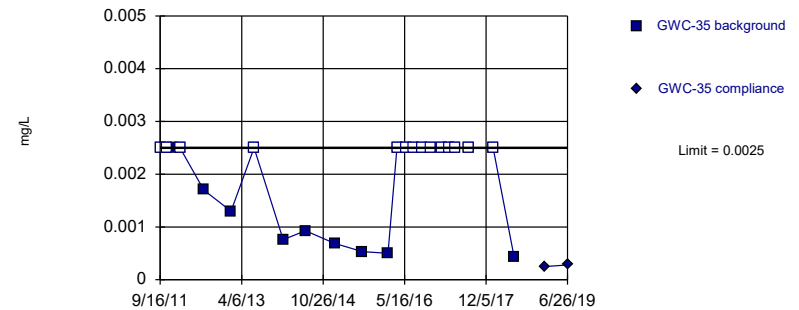


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

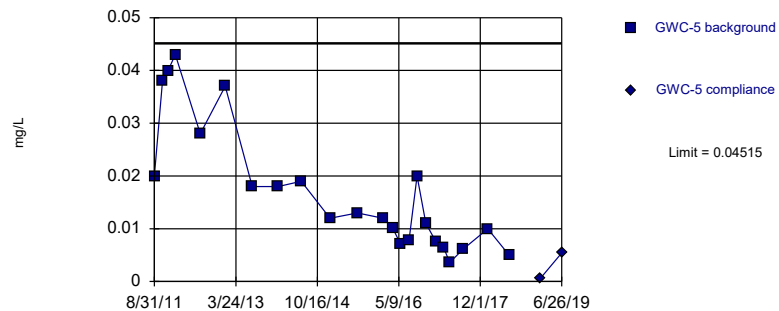


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 60.87% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Parametric

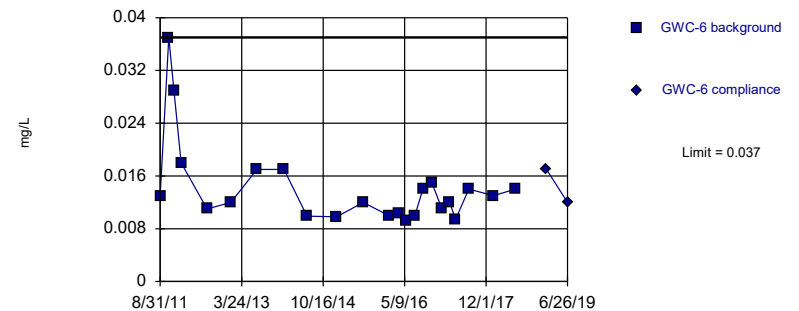


Background Data Summary (based on square root transformation): Mean=0.1233, Std. Dev.=0.04404, n=23.  
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9223, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Cobalt**  
Intrawell Non-parametric

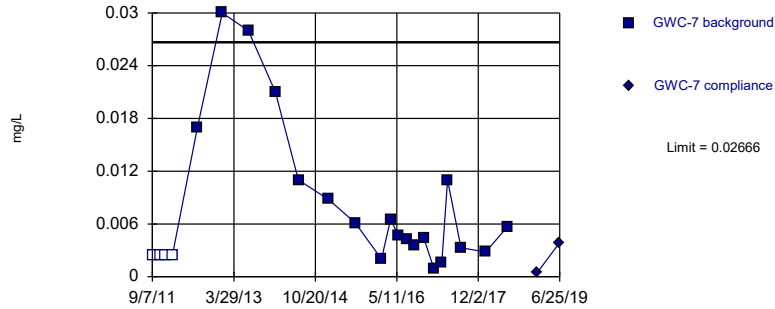


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cobalt Intrawell Parametric

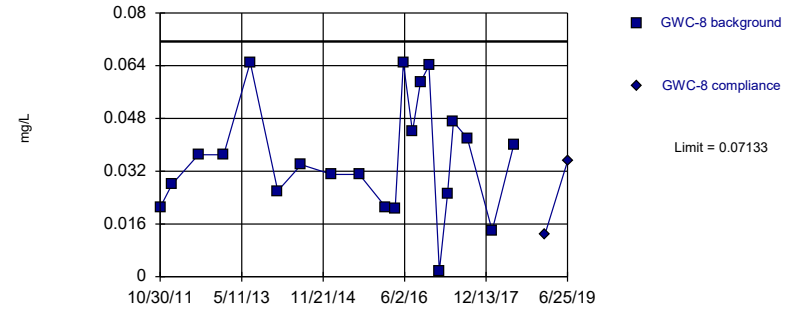


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1738, Std. Dev.=0.0617, n=23, 17.39% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9038, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cobalt Intrawell Parametric

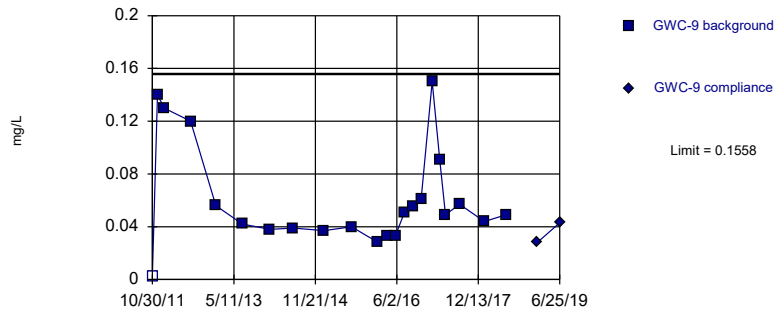


Background Data Summary: Mean=0.03588, Std. Dev.=0.01719, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9559, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Cobalt Intrawell Parametric

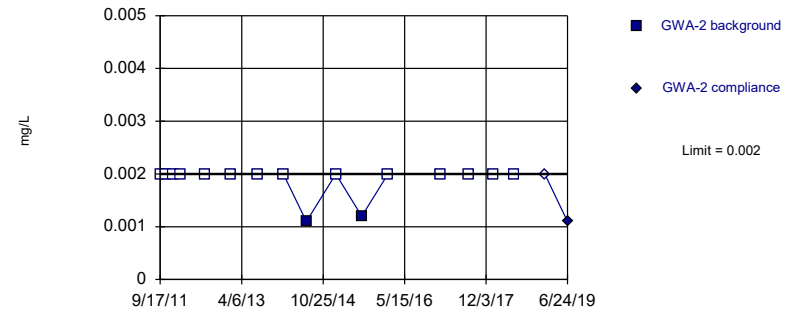


Background Data Summary (based on square root transformation): Mean=0.2353, Std. Dev.=0.07802, n=22, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8952, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

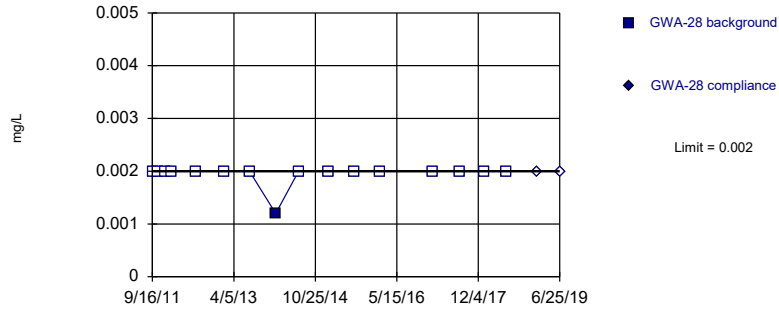


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Copper  
Intrawell Non-parametric

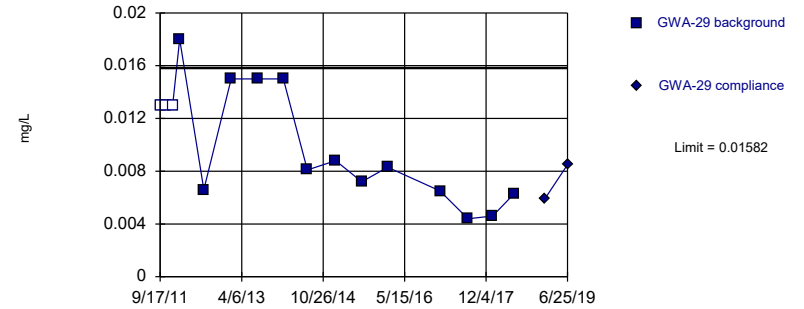


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Copper  
Intrawell Parametric

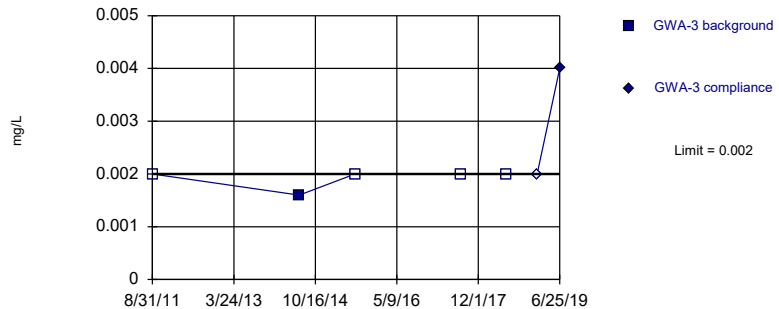


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.007974, Std. Dev.=0.003538, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9107, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Copper  
Intrawell Non-parametric

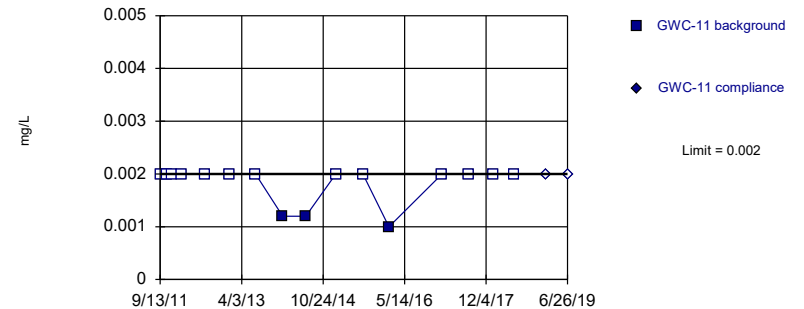


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Copper  
Intrawell Non-parametric



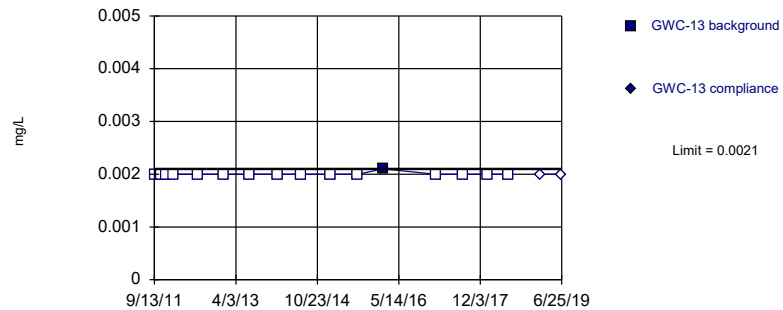
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

### Copper Intrawell Non-parametric

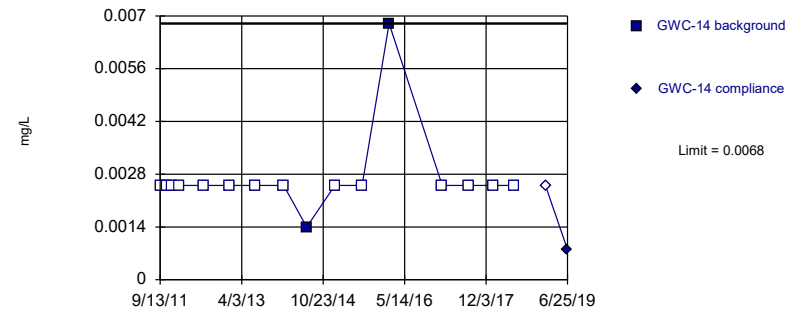


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

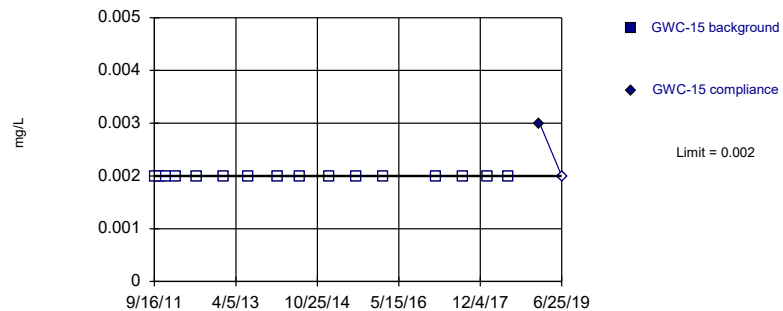


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

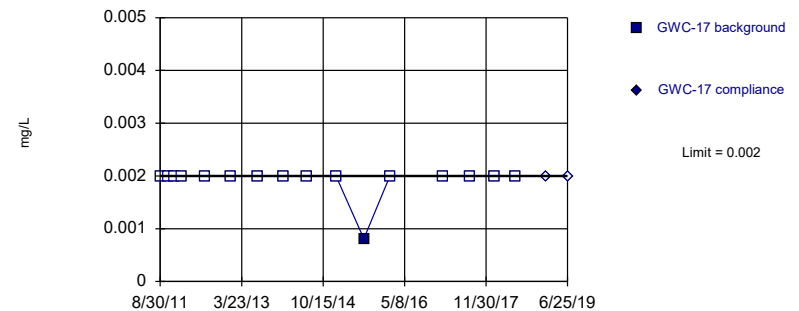


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

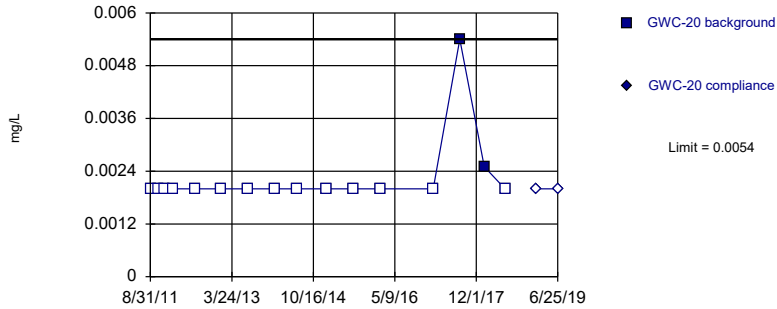


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

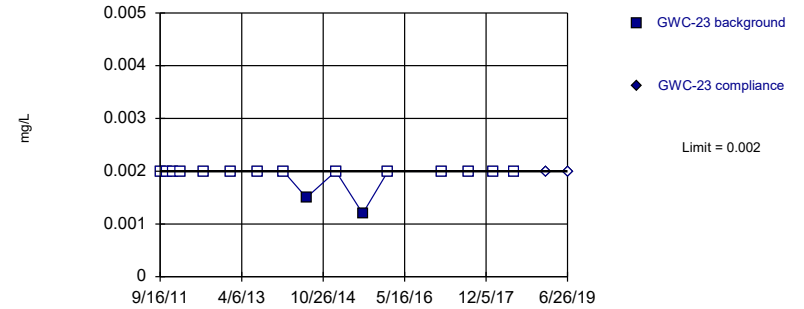


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

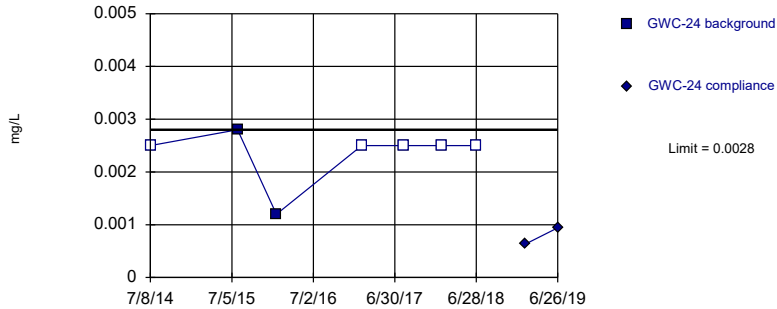


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:56 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

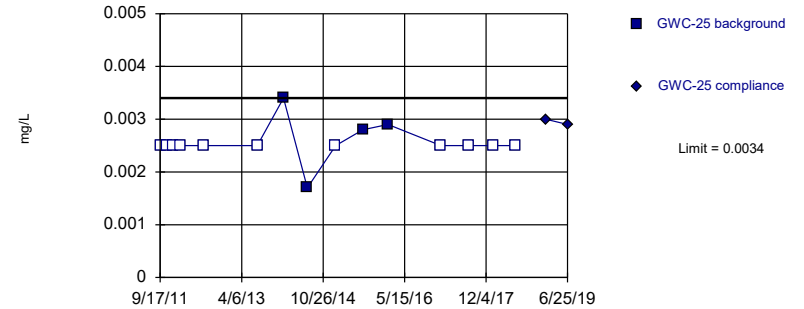


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

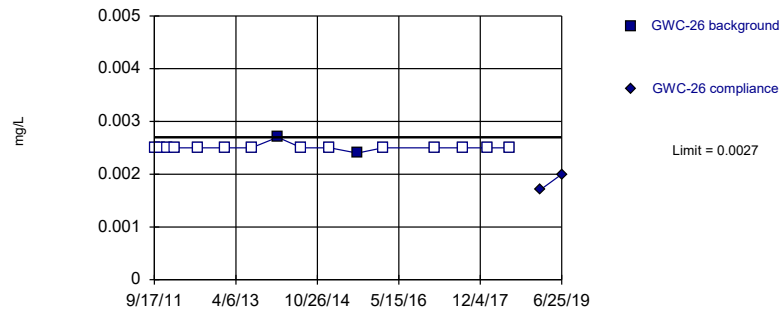


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

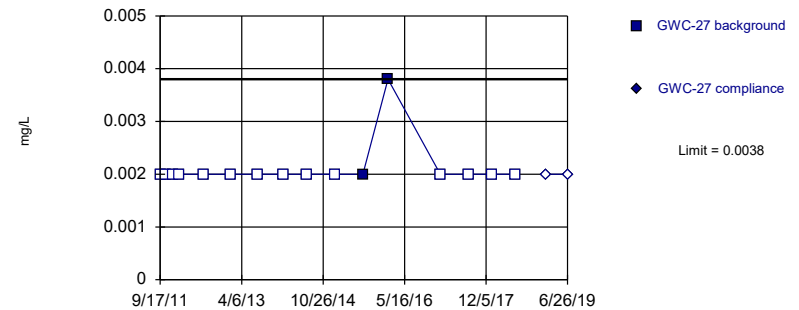


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

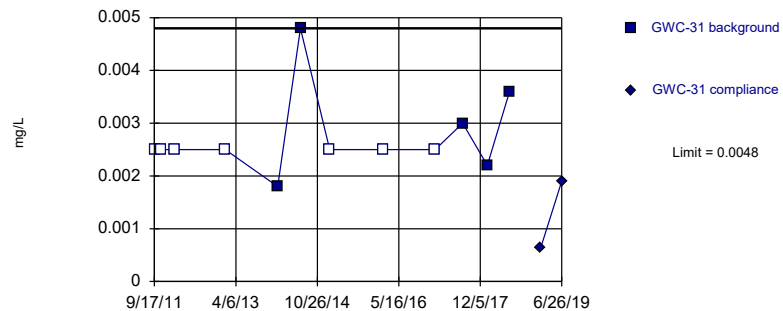


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

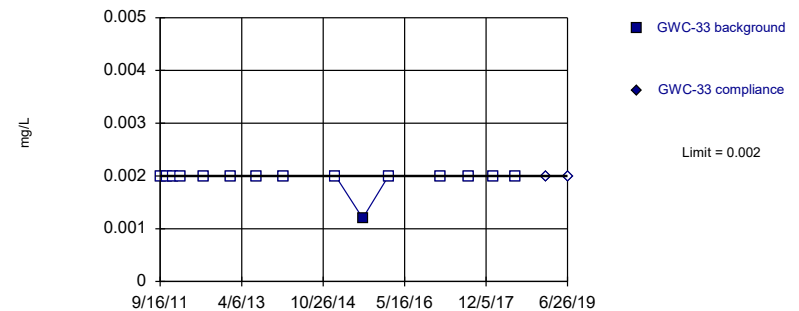


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

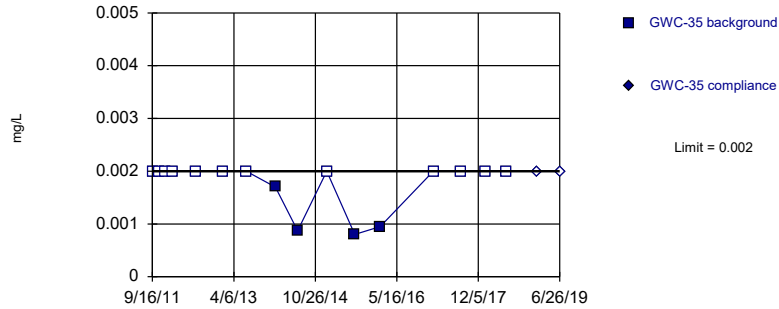


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

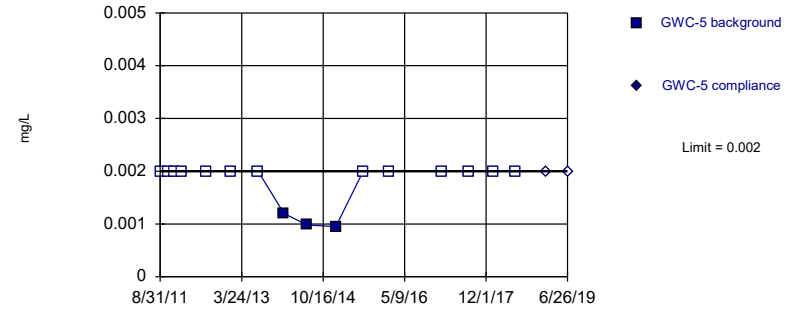


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

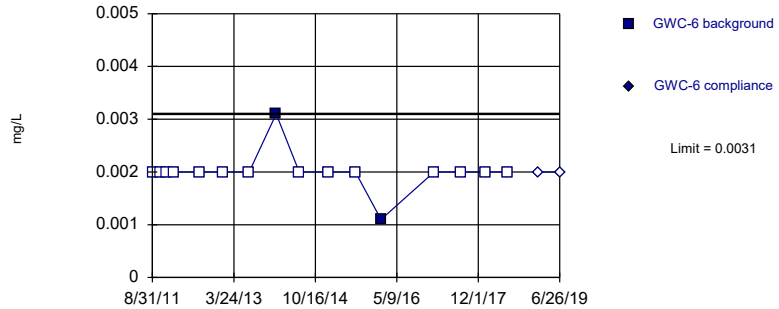


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric

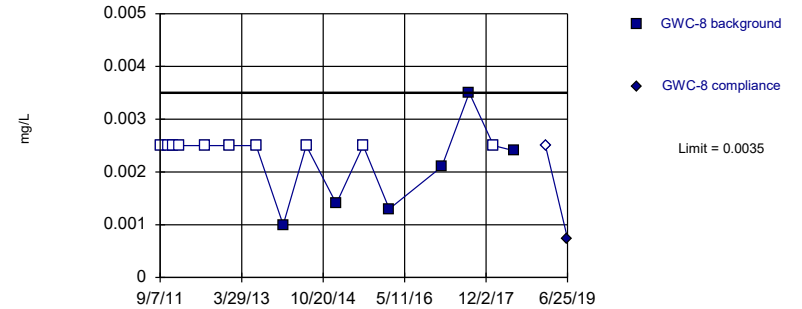


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper Intrawell Non-parametric



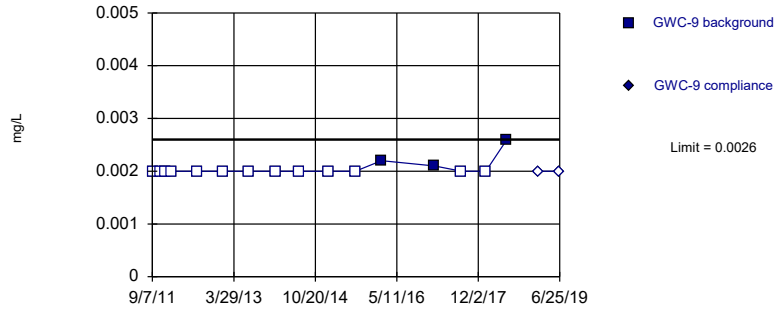
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Copper

Intrawell Non-parametric



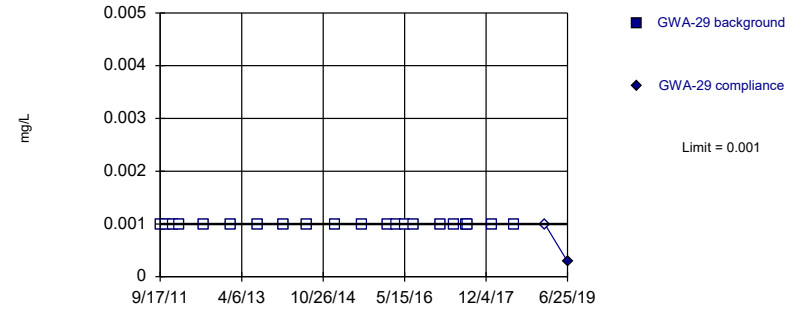
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead

Intrawell Non-parametric



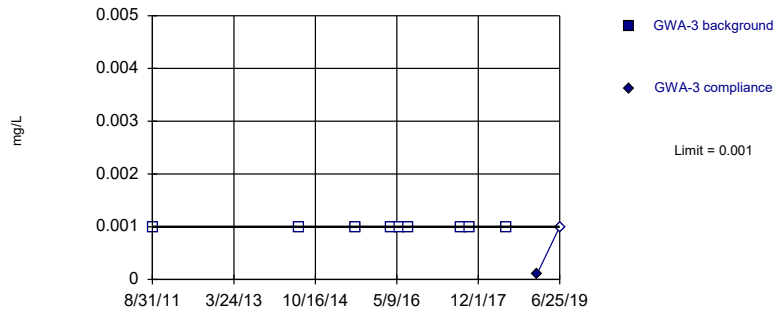
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead

Intrawell Non-parametric



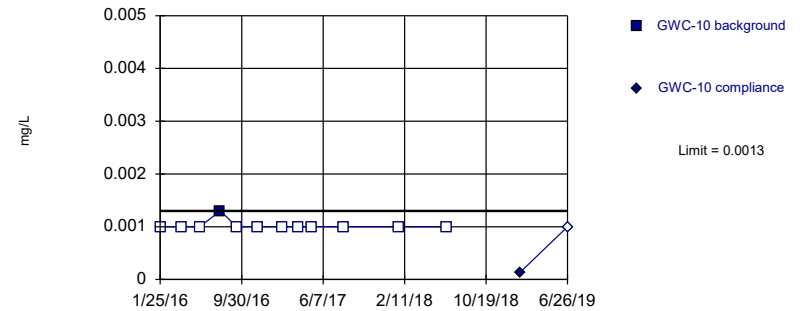
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead

Intrawell Non-parametric

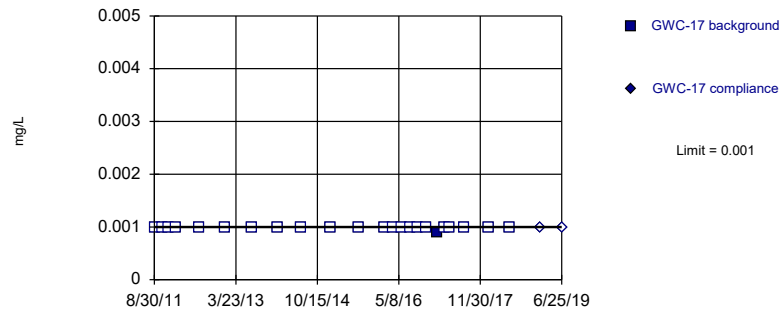


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Lead**  
Intrawell Non-parametric

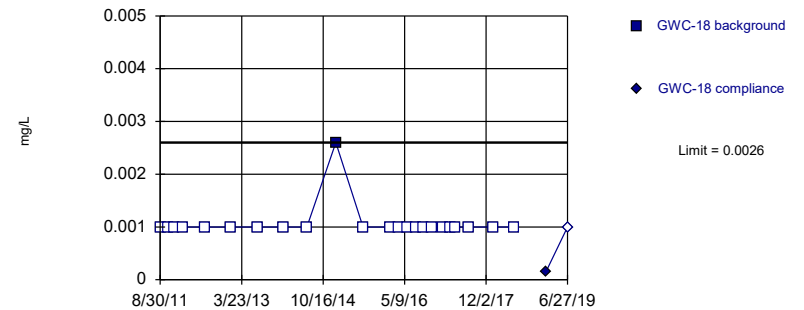


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Lead**  
Intrawell Non-parametric

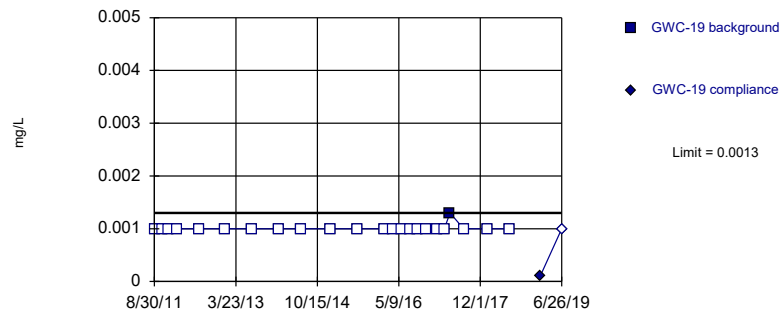


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Lead**  
Intrawell Non-parametric

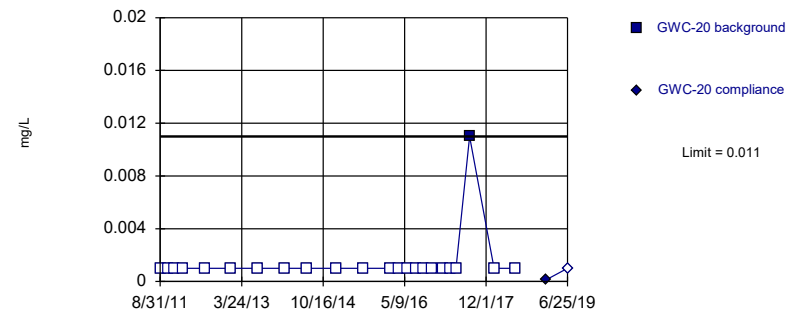


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Lead**  
Intrawell Non-parametric

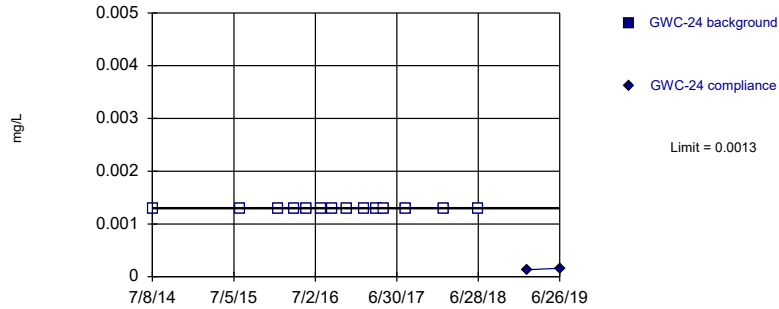


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead Intrawell Non-parametric

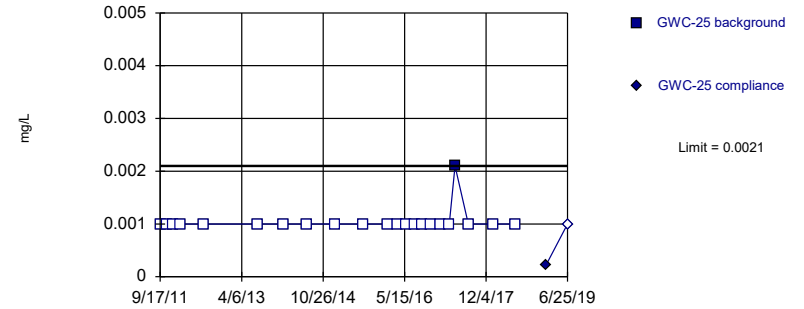


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 14) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead Intrawell Non-parametric

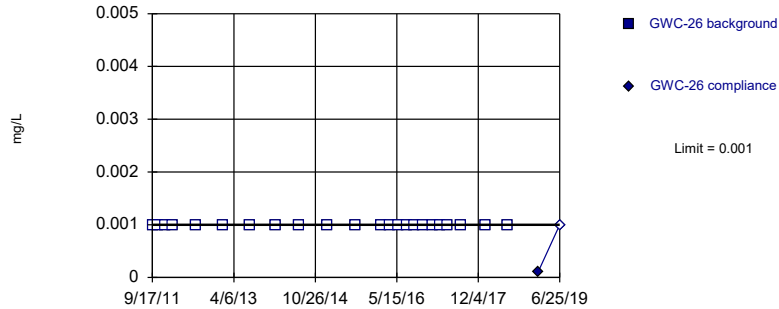


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead Intrawell Non-parametric

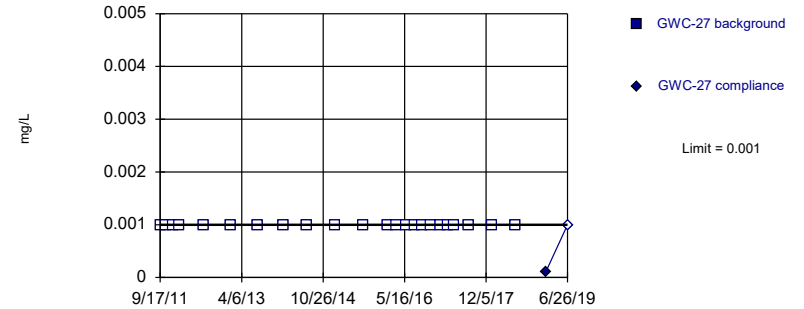


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead Intrawell Non-parametric

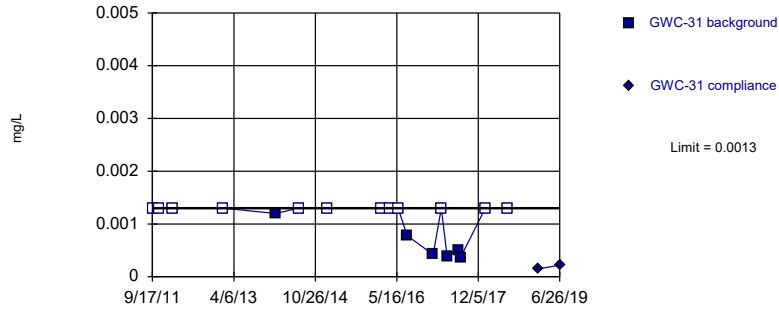


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead Intrawell Non-parametric

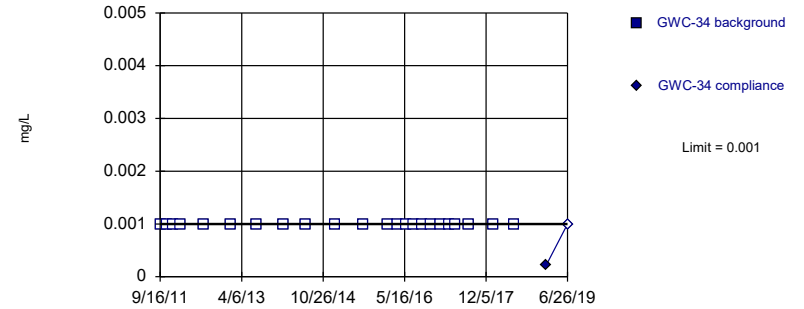


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead Intrawell Non-parametric

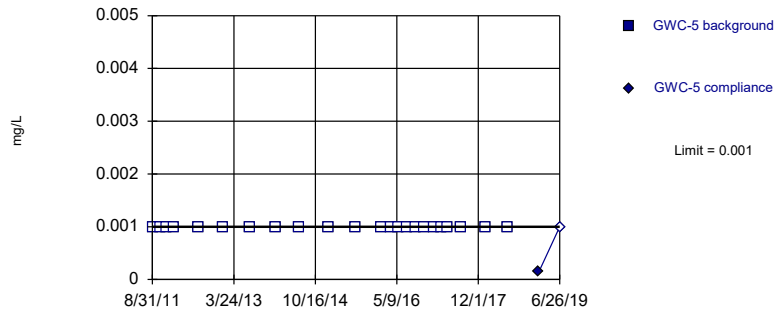


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead Intrawell Non-parametric

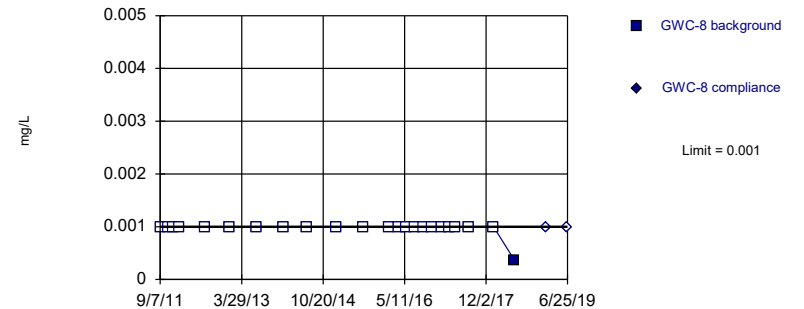


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Lead Intrawell Non-parametric



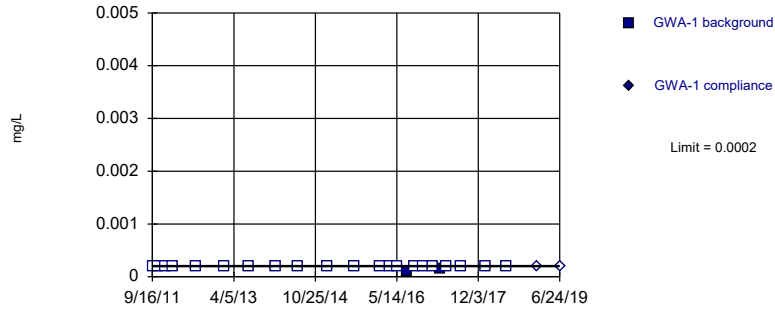
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

### Mercury Intrawell Non-parametric

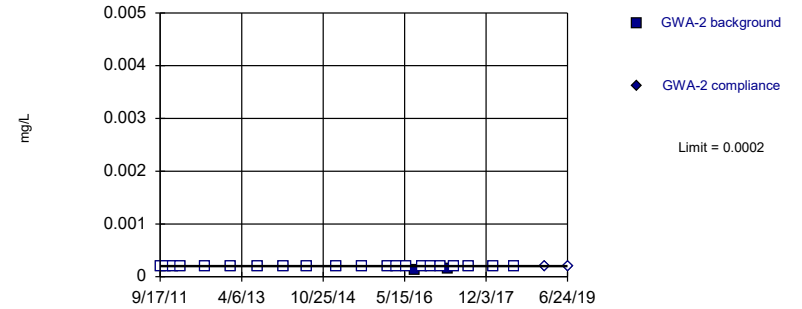


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

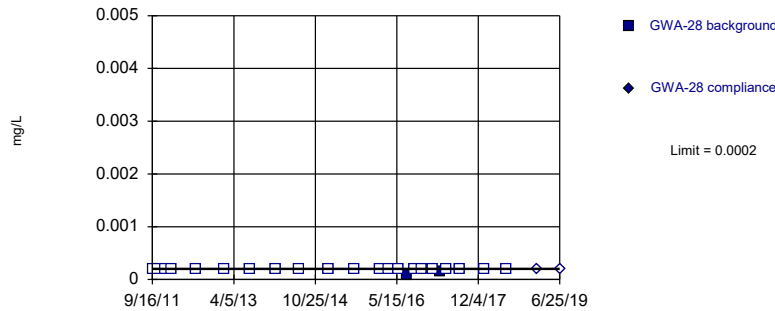


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:57 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

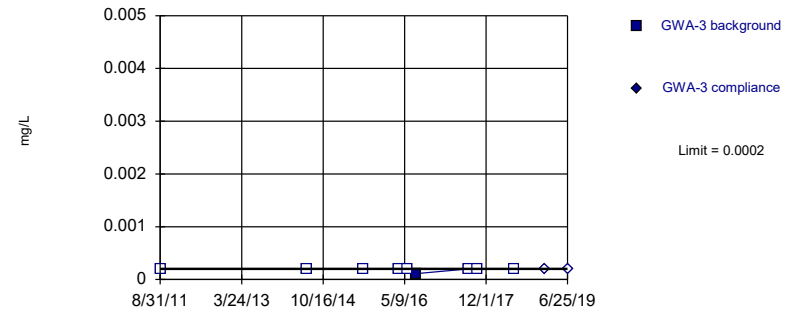


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

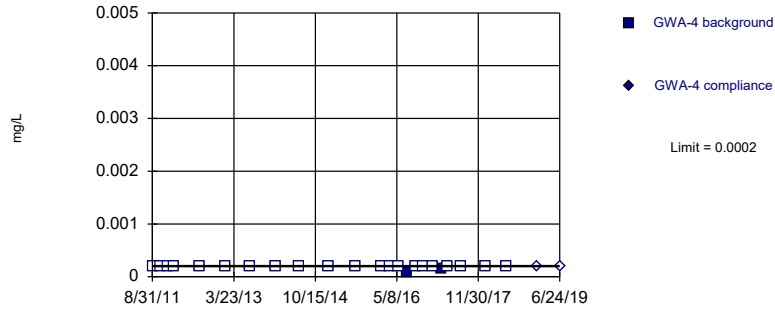


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

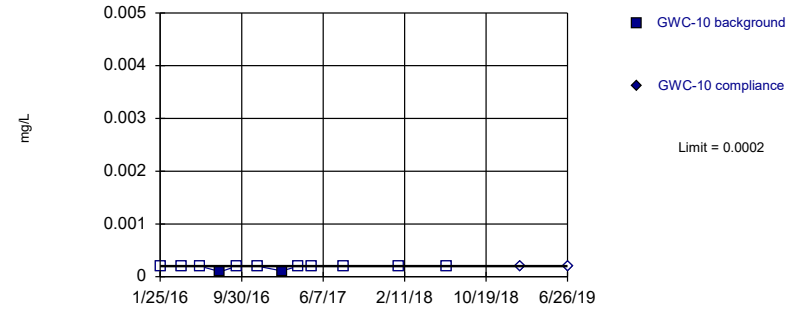


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

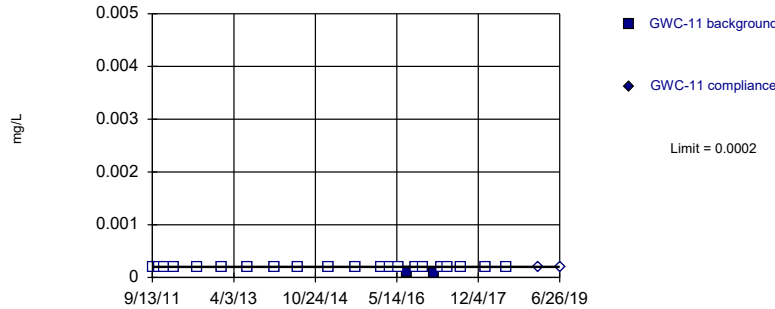


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

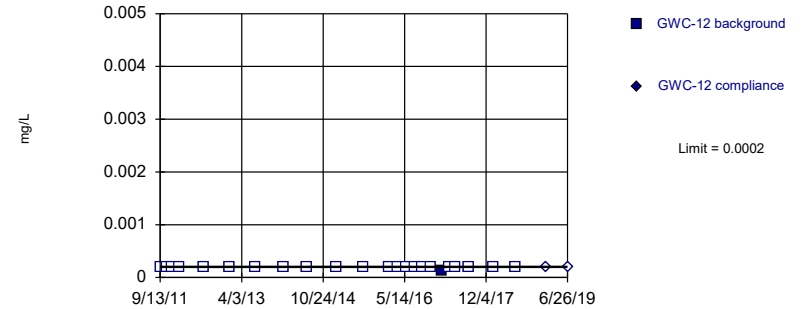


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

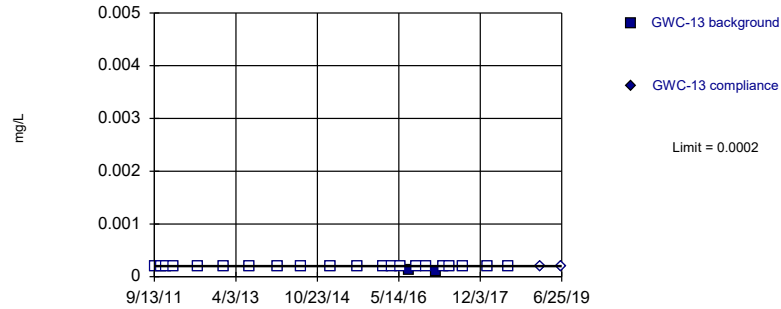


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

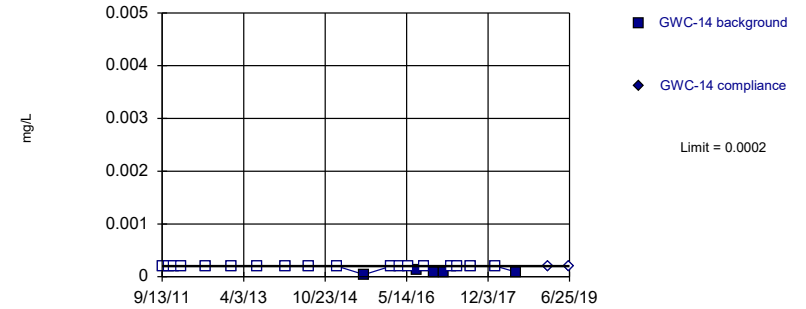


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

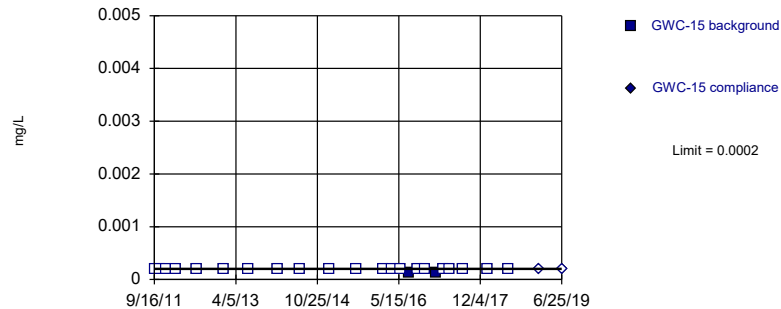


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

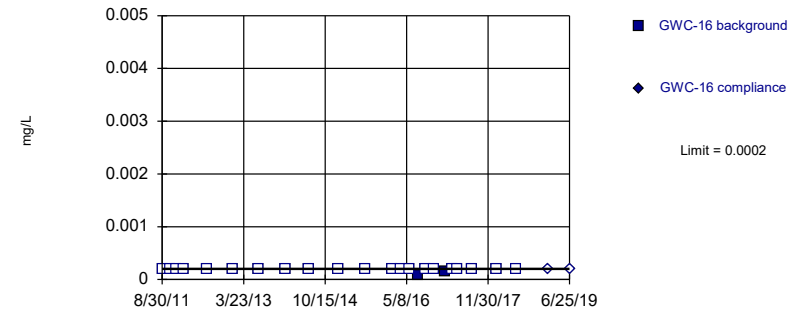


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

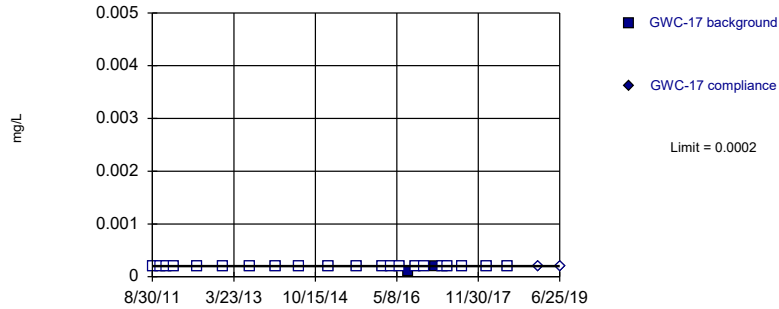


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

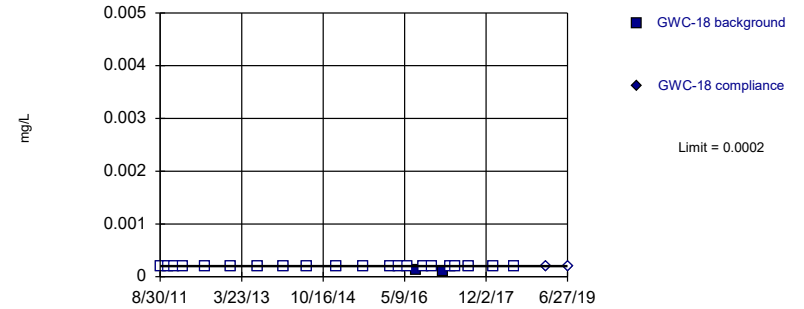


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

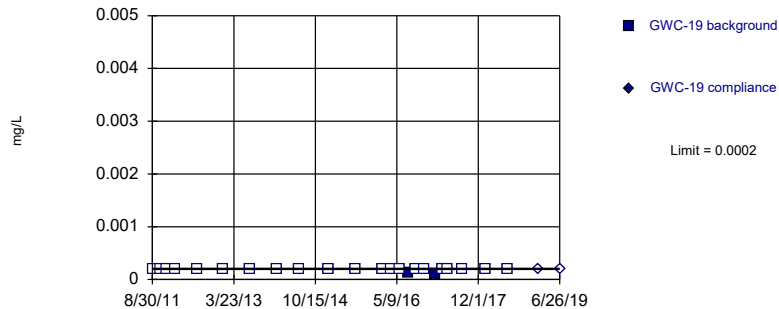


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

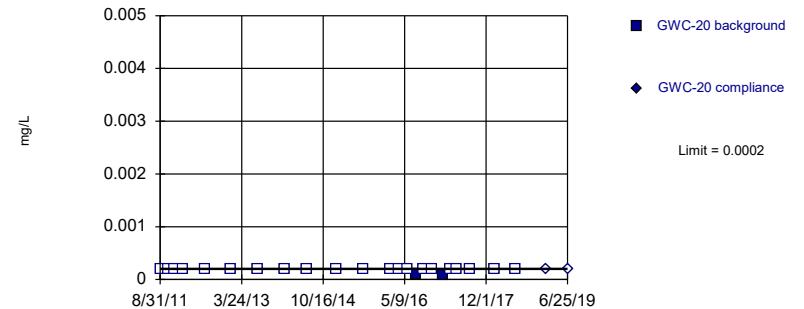


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

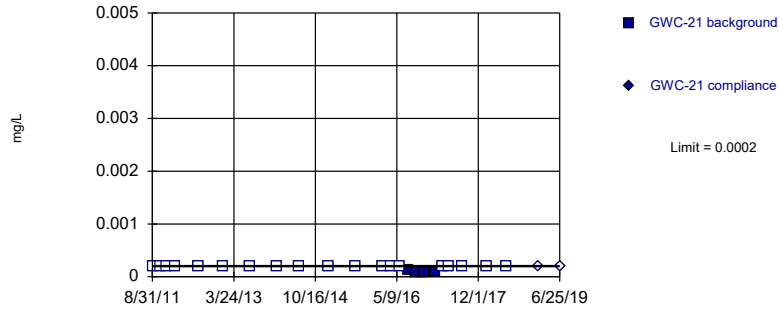


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

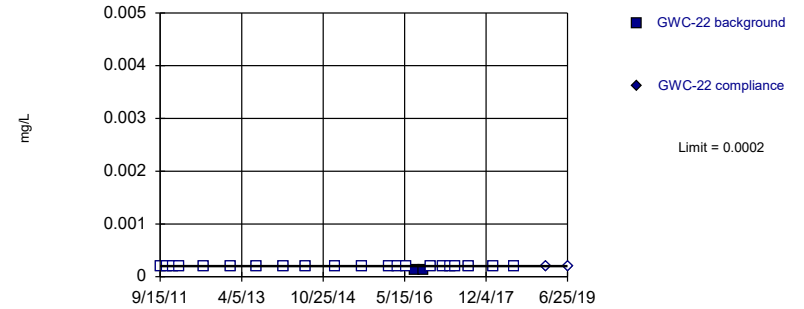


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

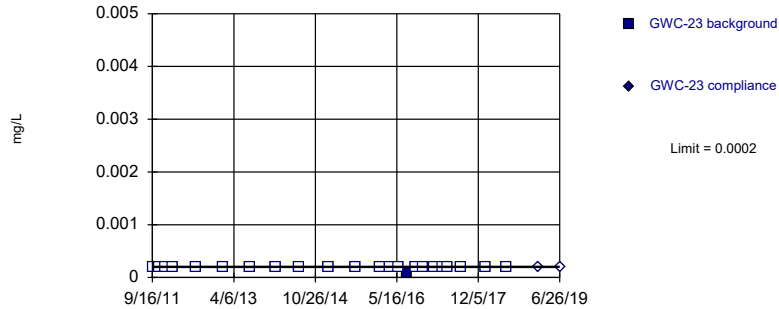


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

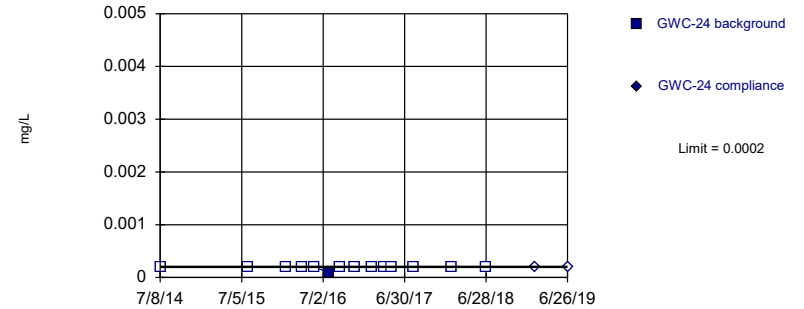


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

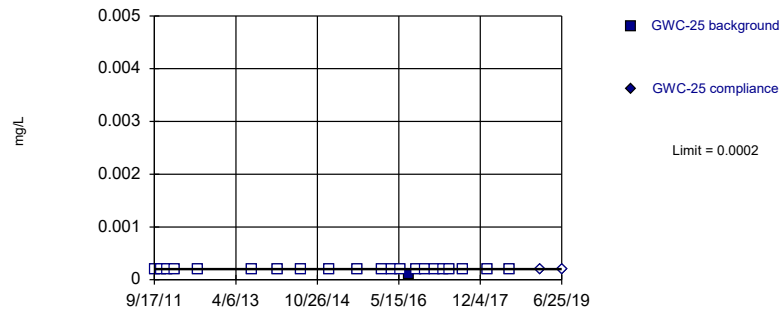


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:58 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

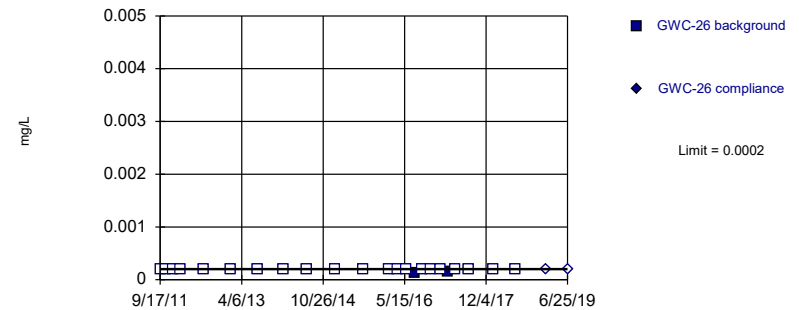


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

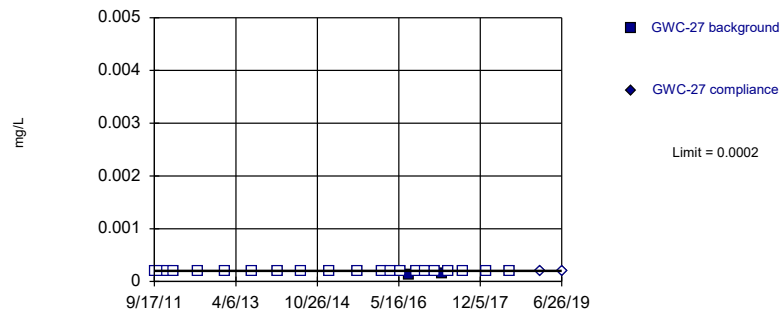


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

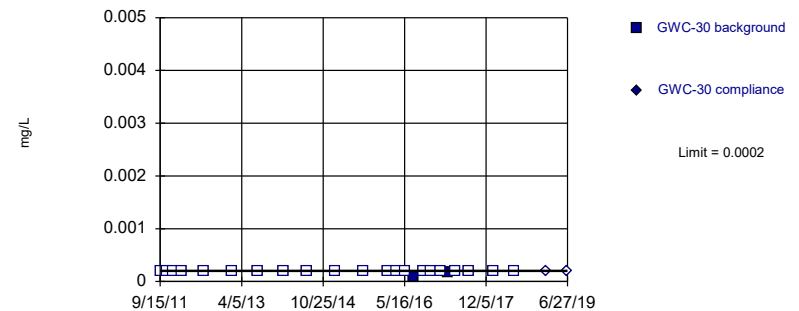


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

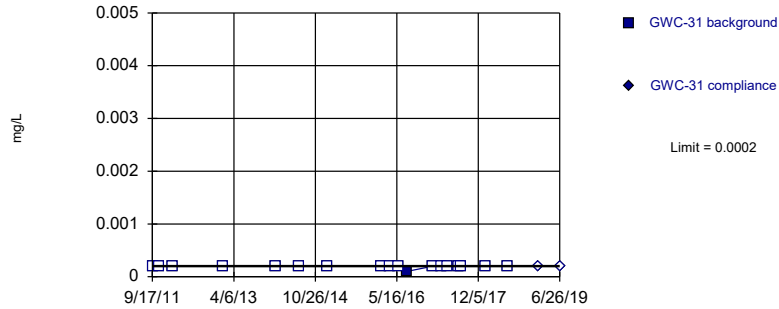


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

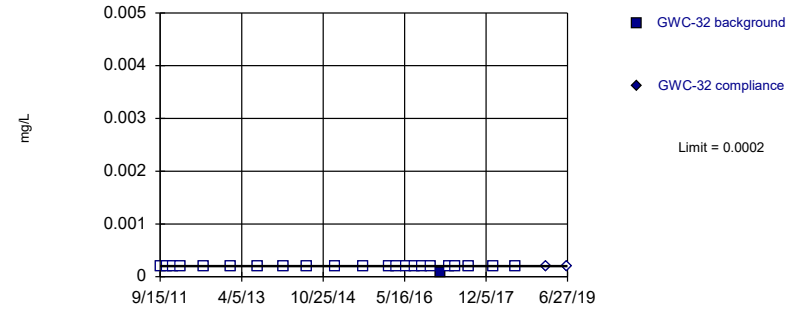


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

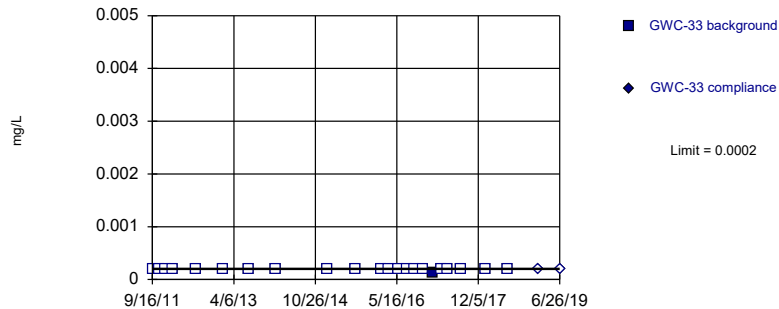


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

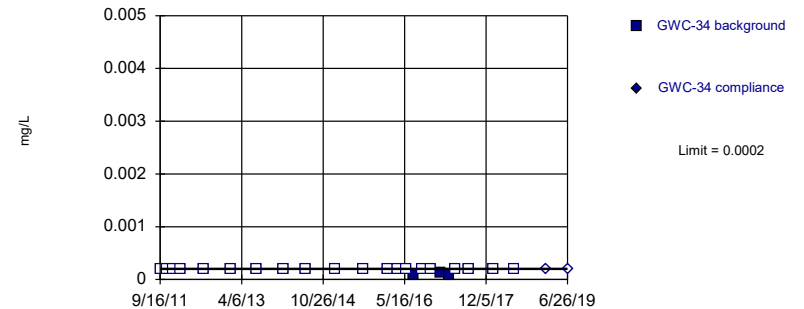


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

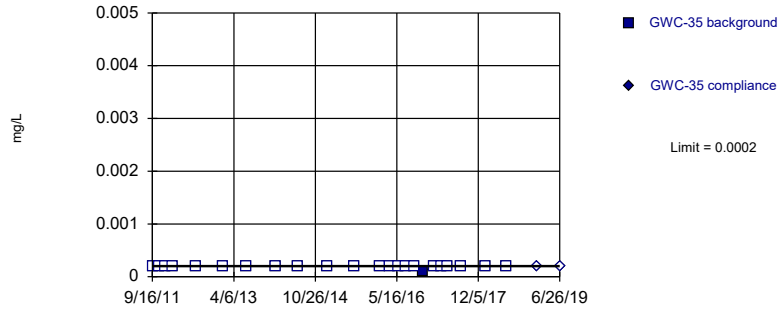


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

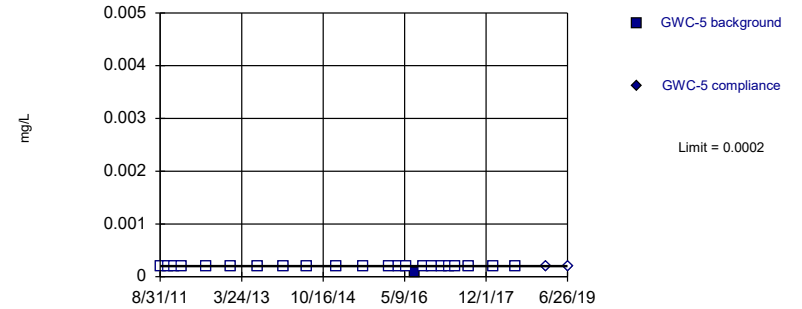


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

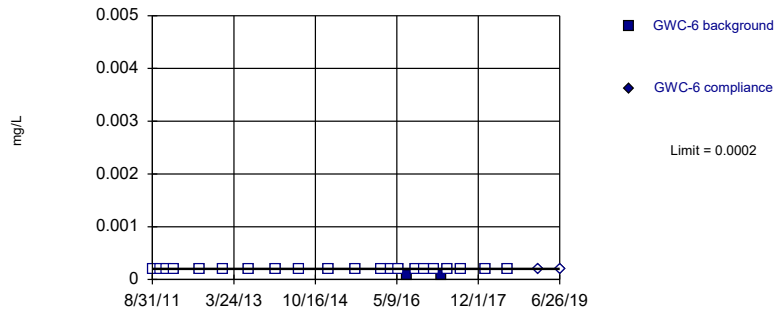


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

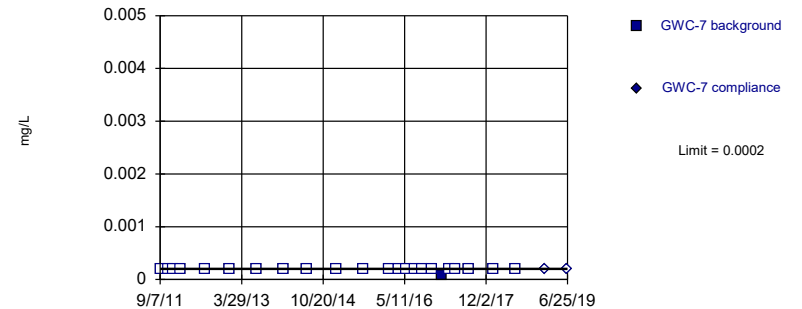


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric



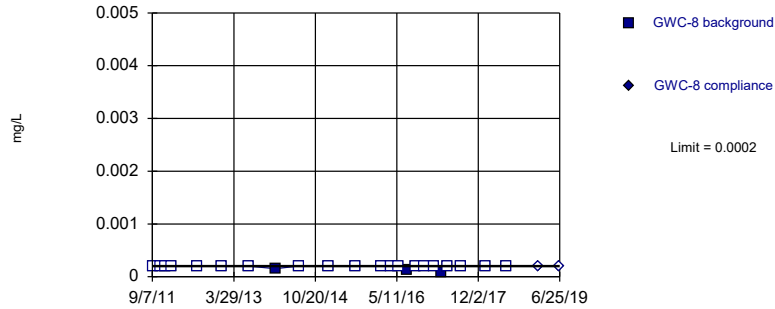
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

### Mercury Intrawell Non-parametric

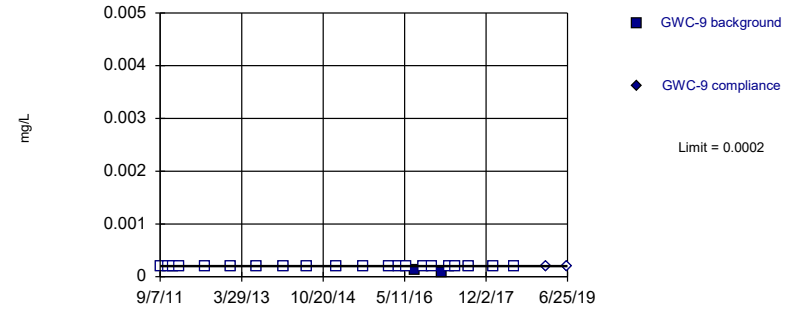


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Mercury Intrawell Non-parametric

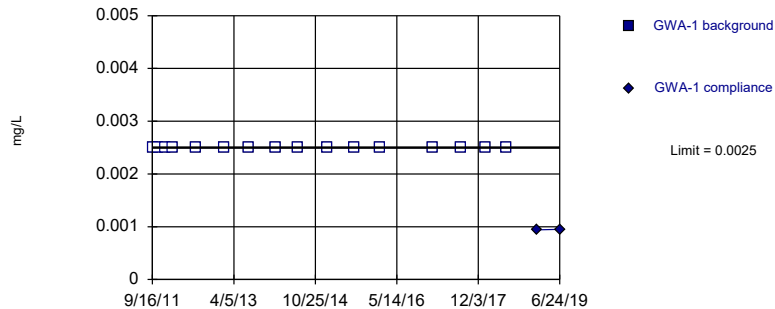


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Nickel Intrawell Non-parametric

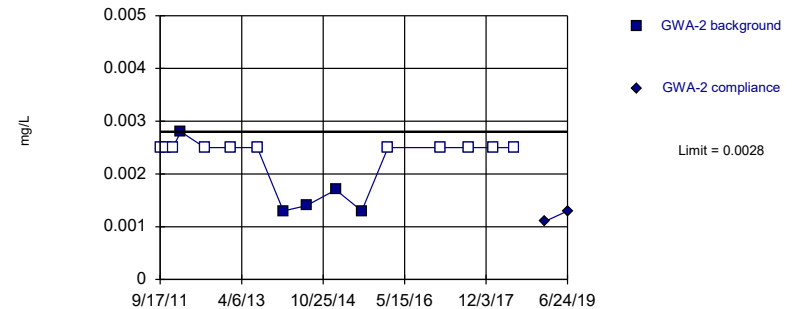


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Nickel Intrawell Non-parametric

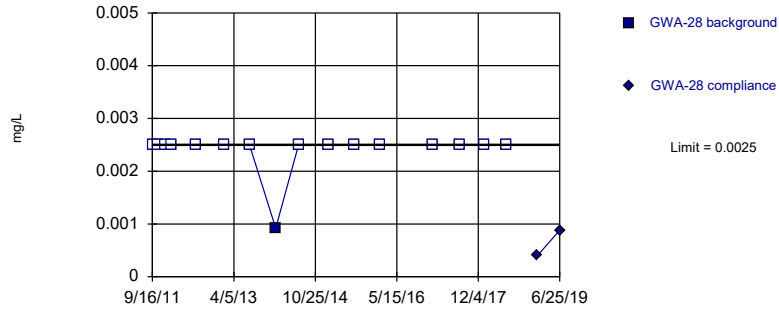


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

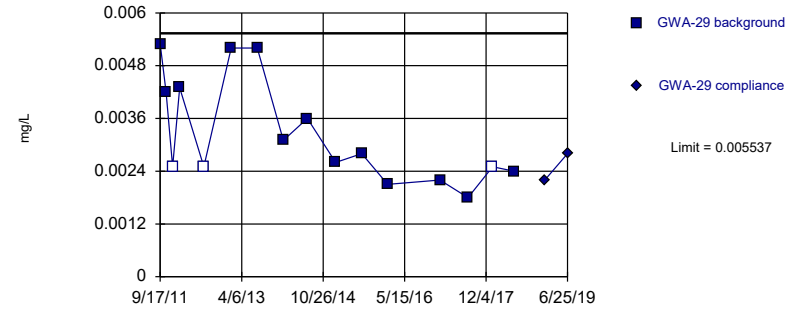


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

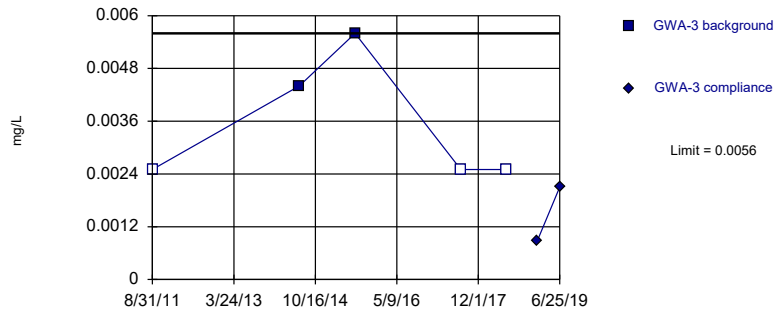


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003044, Std. Dev.=0.001124, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8635, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 10:59 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

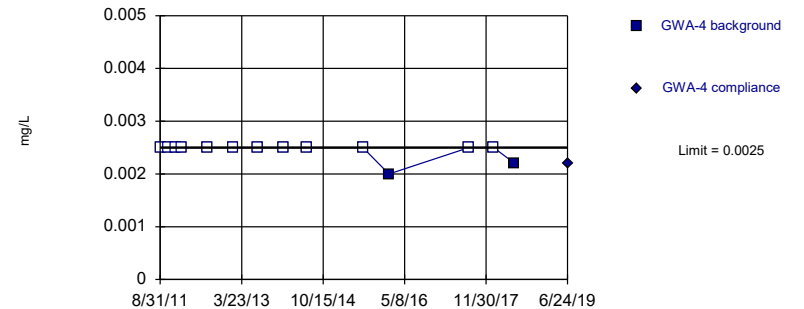


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 60% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

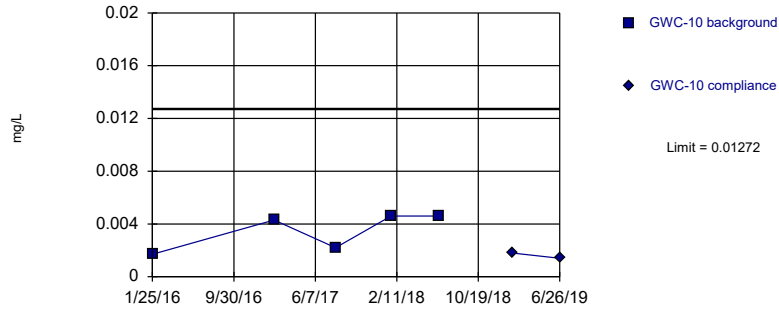


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

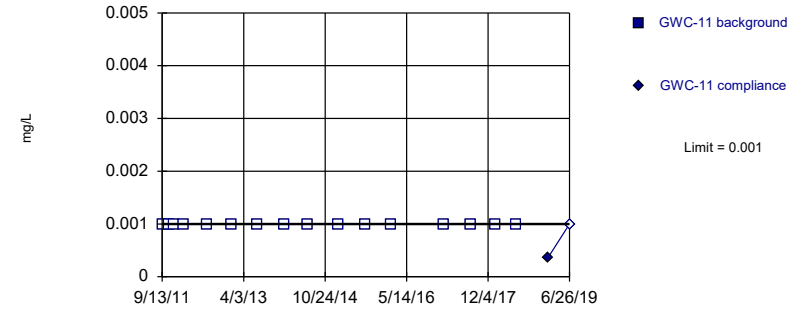


Background Data Summary: Mean=0.00348, Std. Dev.=0.001413, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7865, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

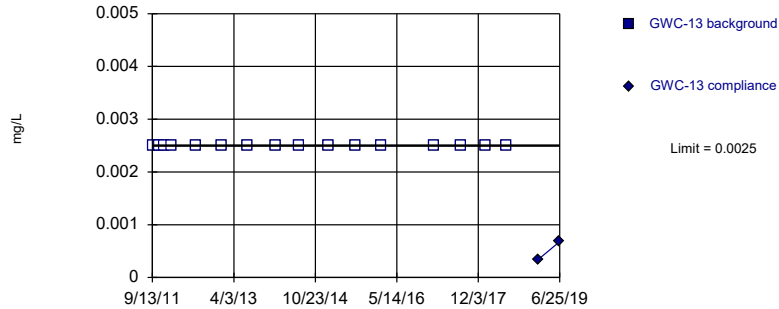


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

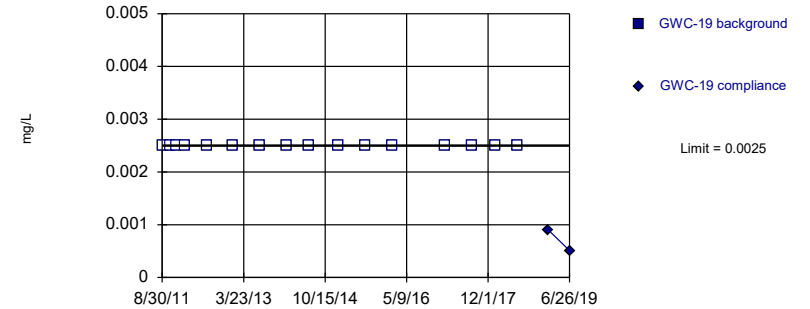


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

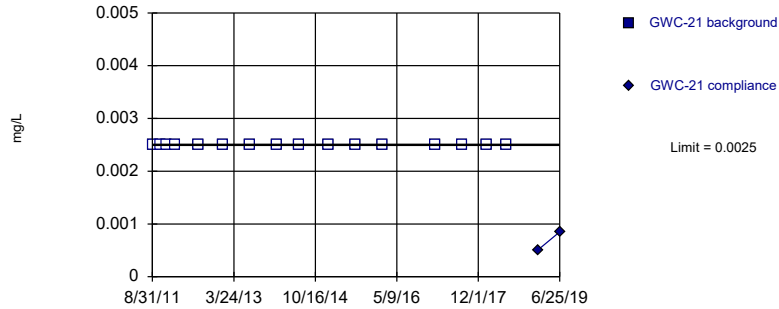


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

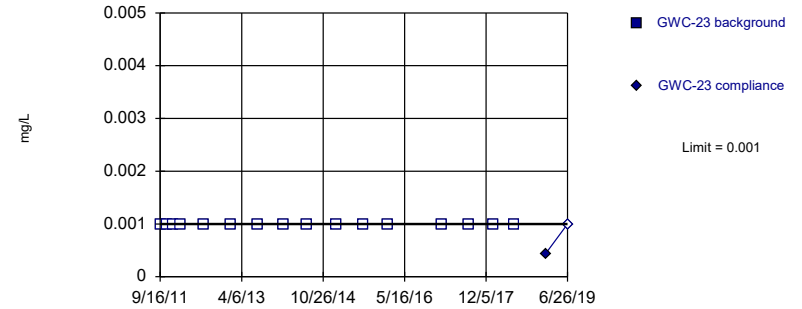


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

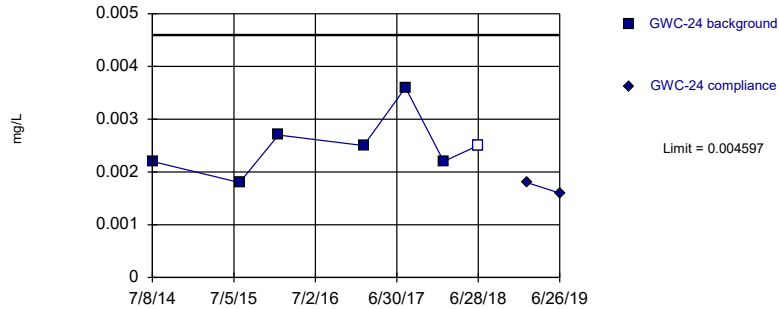


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

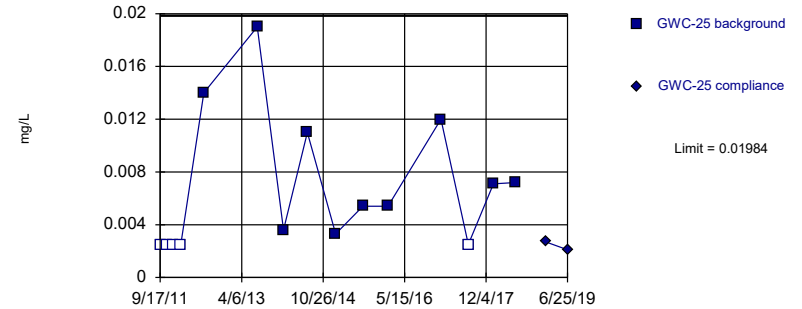


Background Data Summary: Mean=0.0025, Std. Dev.=0.0005657, n=7, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.73. Kappa = 3.706 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

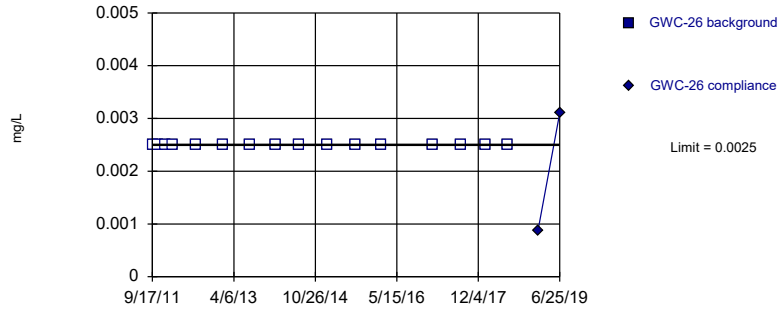


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07554, Std. Dev.=0.0286, n=15, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8657, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Nickel  
Intrawell Non-parametric

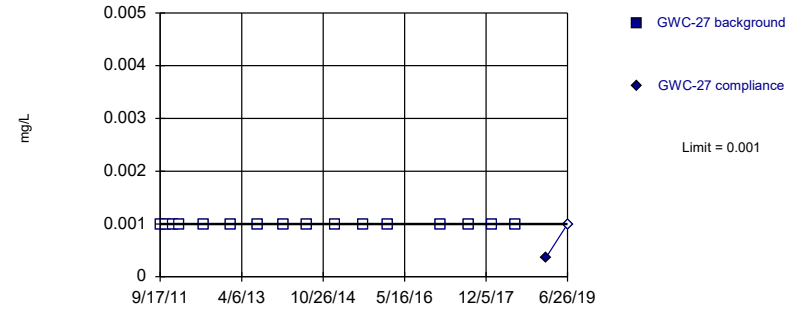


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

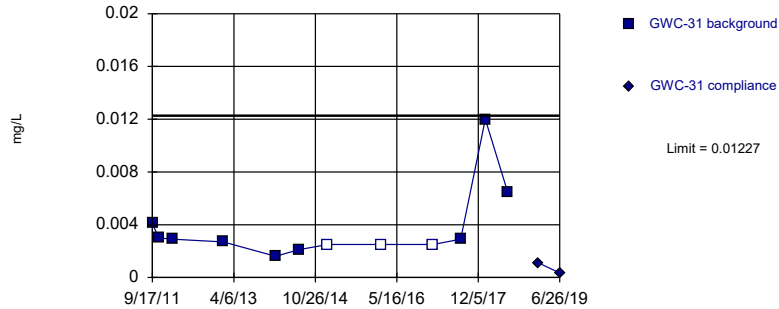


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

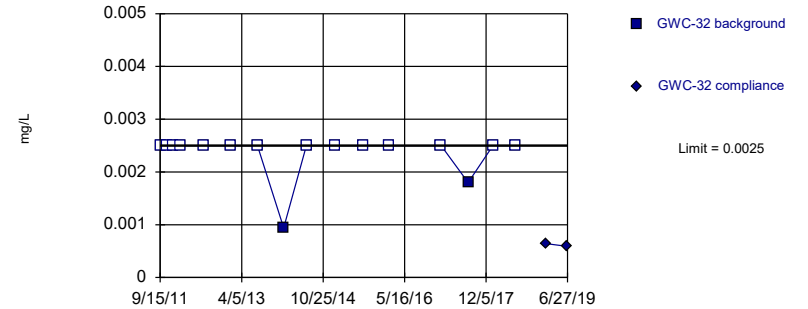


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.856, Std. Dev.=0.5866, n=12, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8392, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

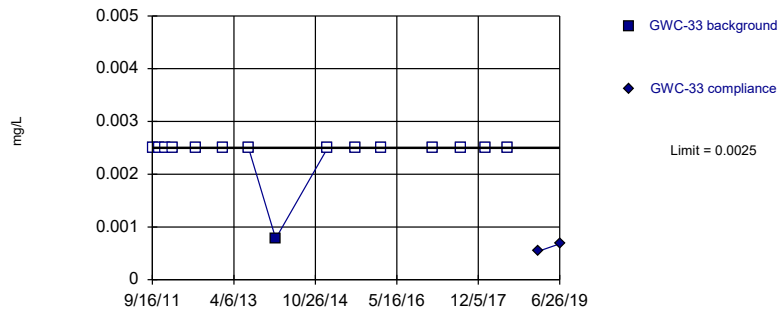


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

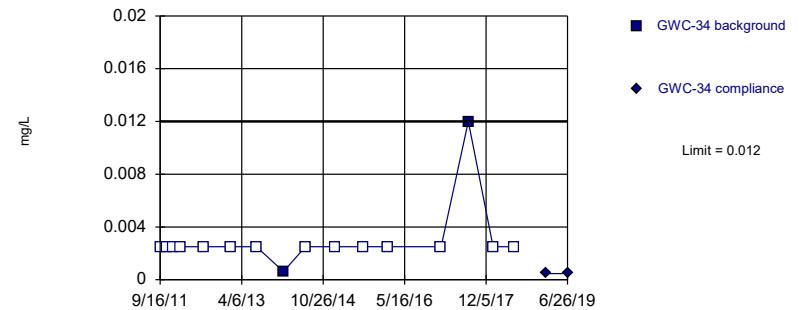


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Non-parametric

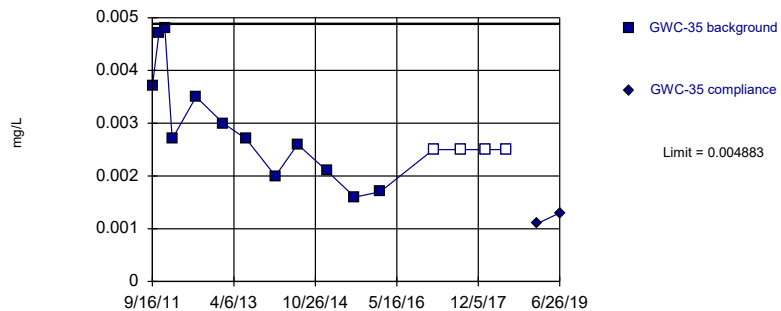


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

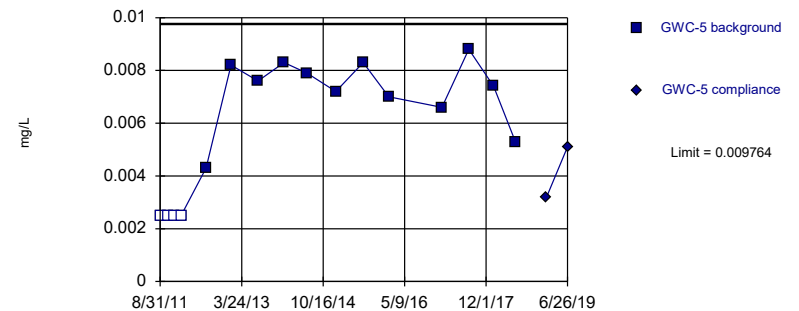


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002608, Std. Dev.=0.001025, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8853, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

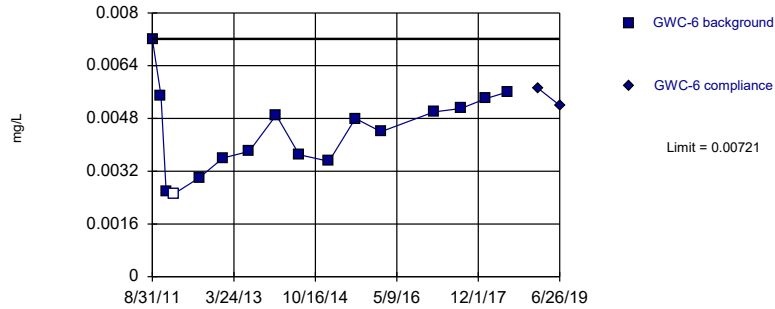


Background Data Summary (based on square transformation) (after Kaplan-Meier Adjustment): Mean=0.00003998, Std. Dev.=0.00002495, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8736, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

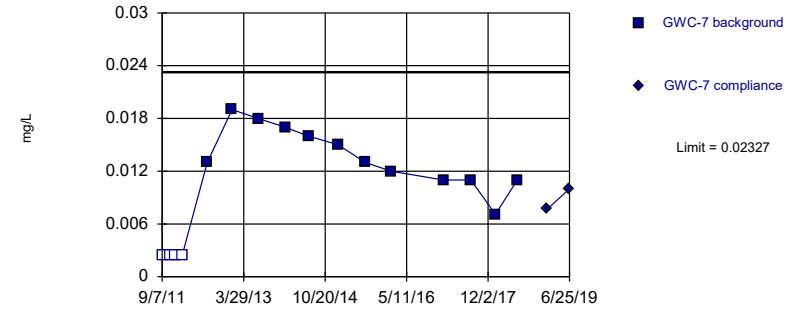


Background Data Summary: Mean=0.004412, Std. Dev.=0.001261, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9588, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

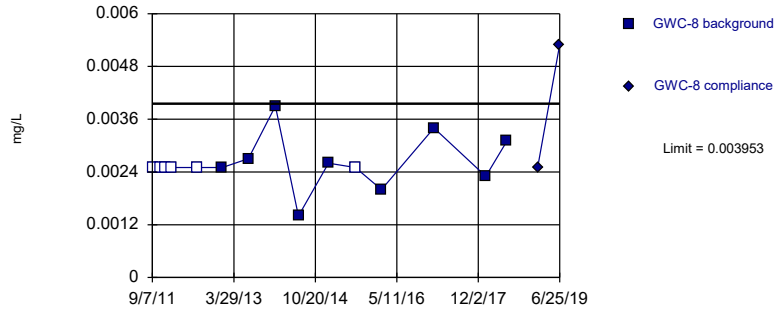


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.009385, Std. Dev.=0.006258, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8939, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Nickel  
Intrawell Parametric

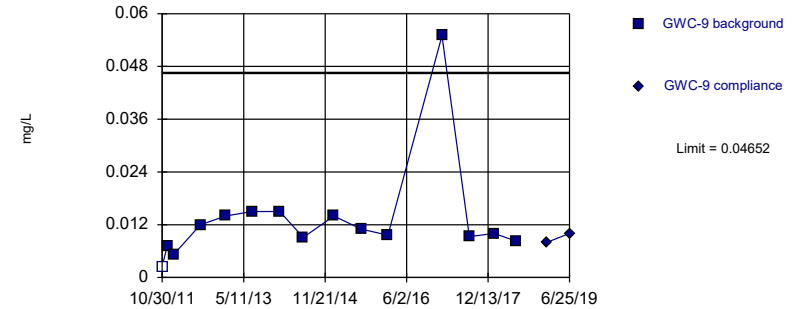


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002353, Std. Dev.=0.0007003, n=15, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8802, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Nickel  
Intrawell Parametric

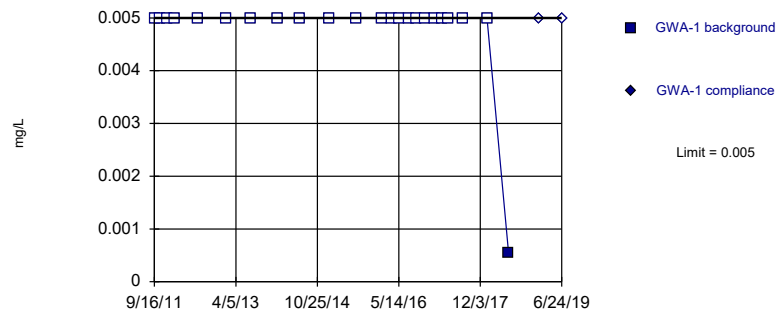


Background Data Summary (based on natural log transformation): Mean=-4.557, Std. Dev.=0.652, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8916, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

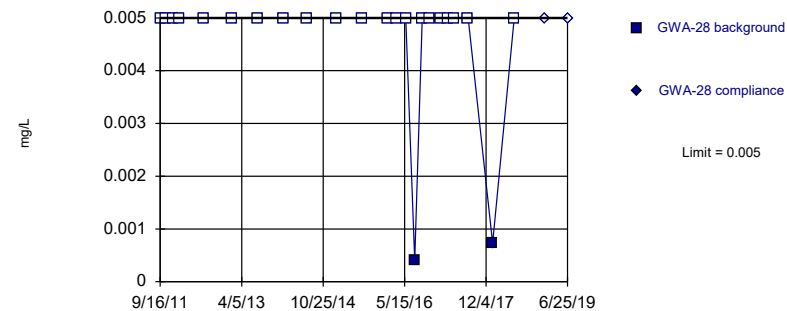


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

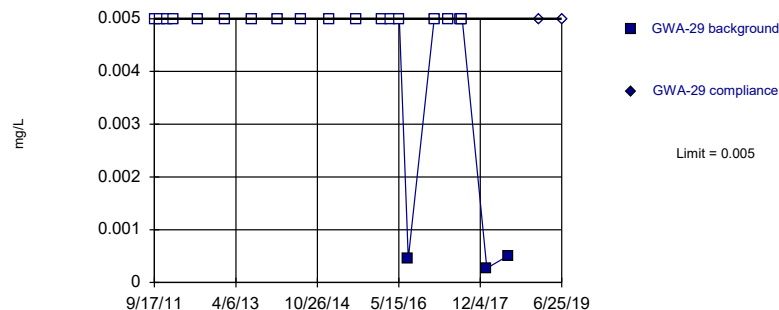


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:00 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

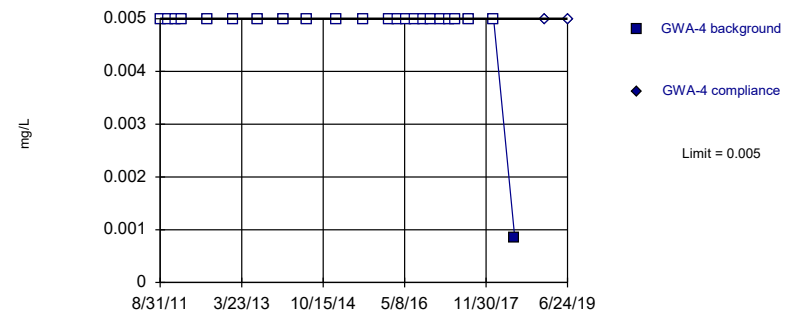


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric



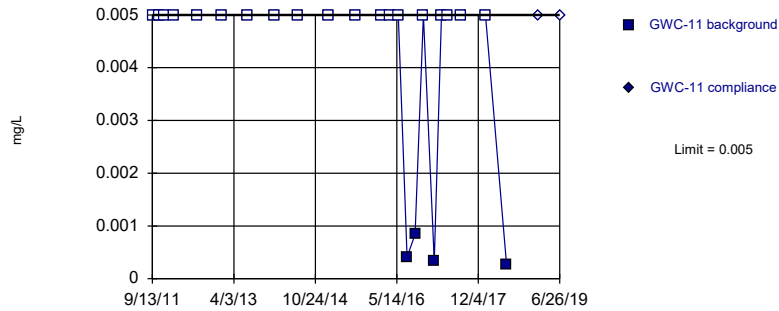
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

### Selenium Intrawell Non-parametric

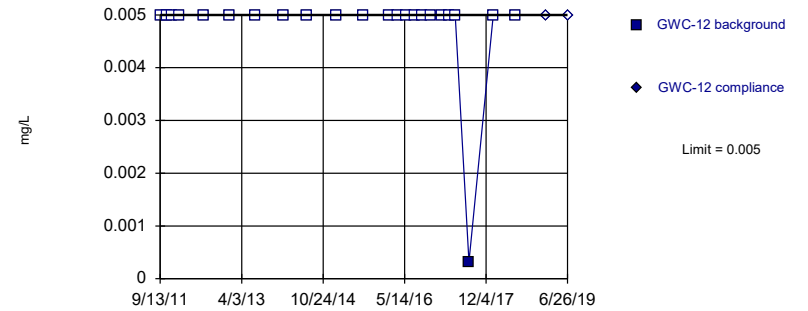


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

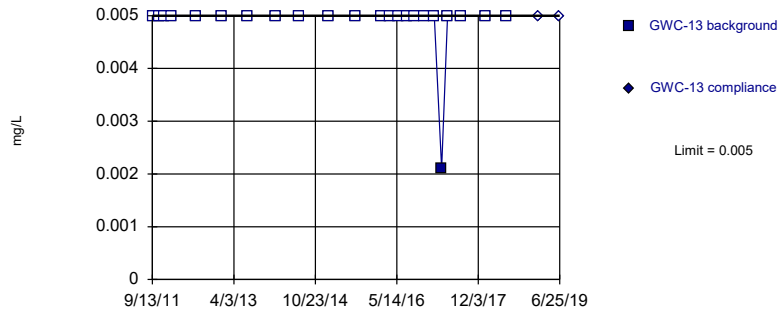


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

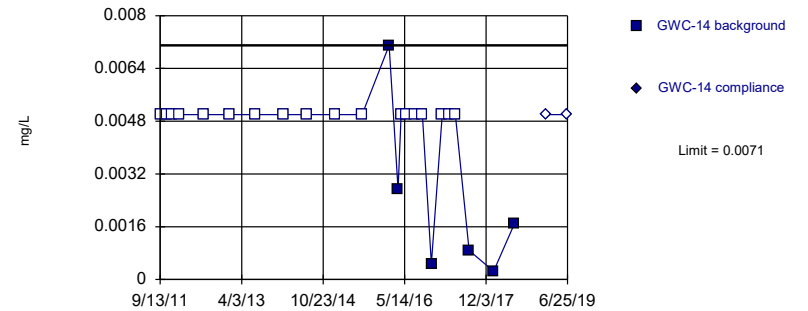


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

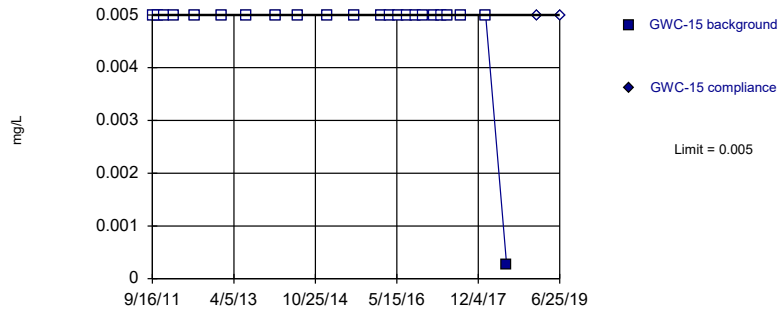


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.0007123. Individual comparison alpha = 0.0003562 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

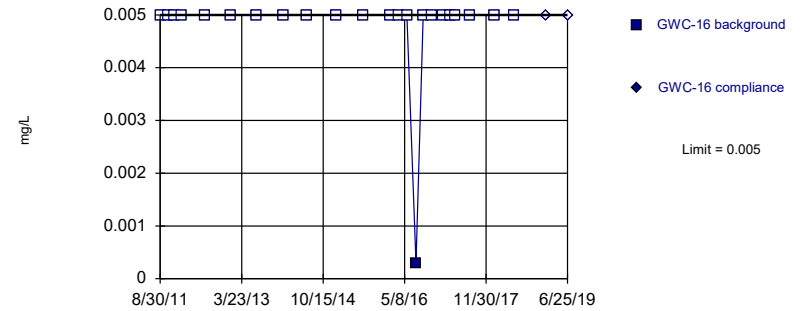


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

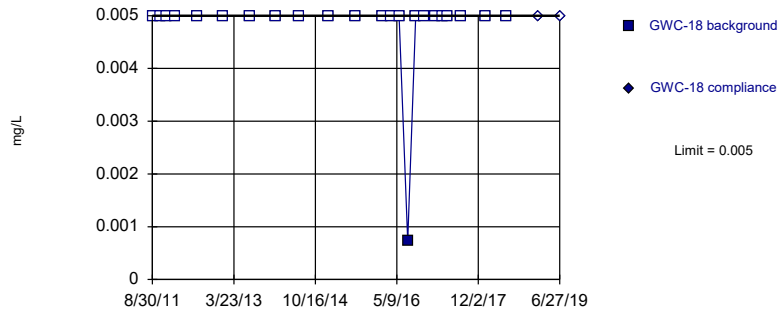


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

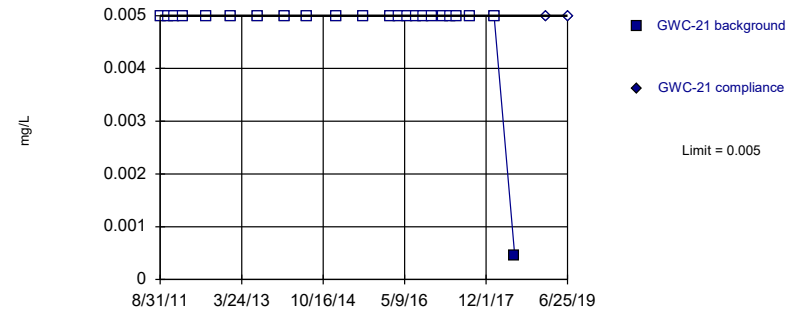


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

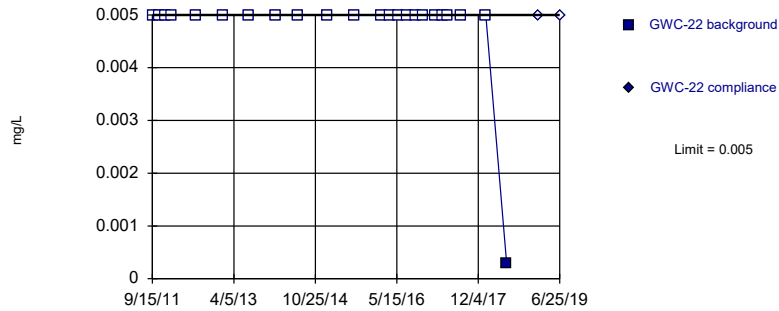


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

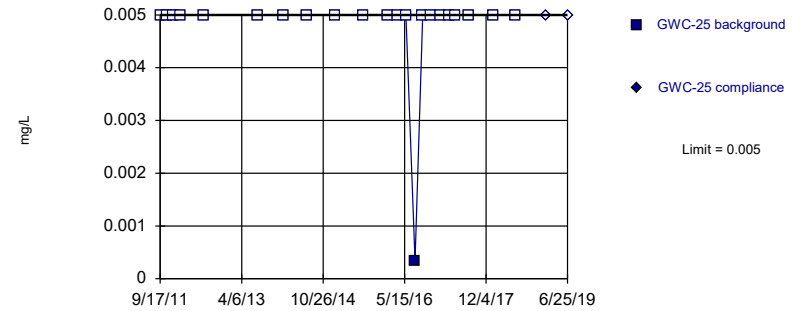


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

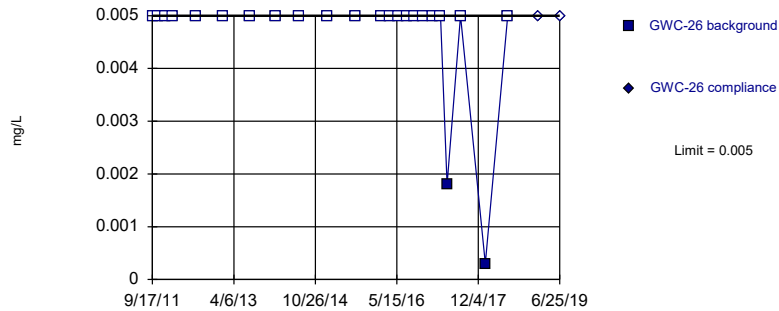


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

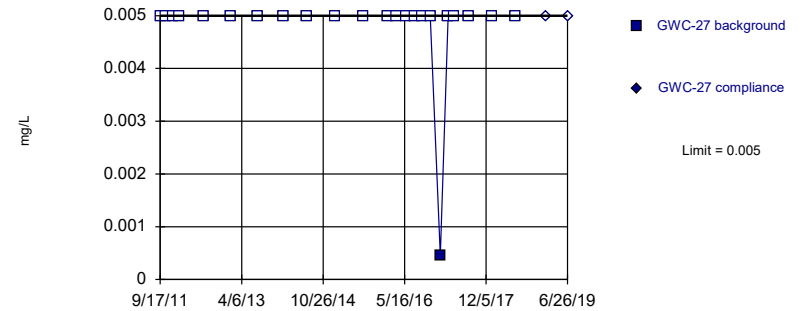


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

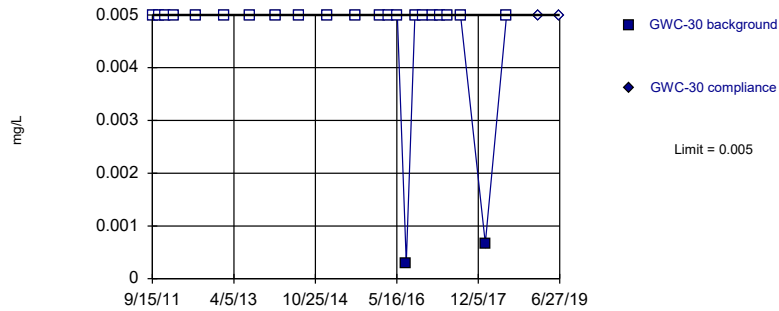


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

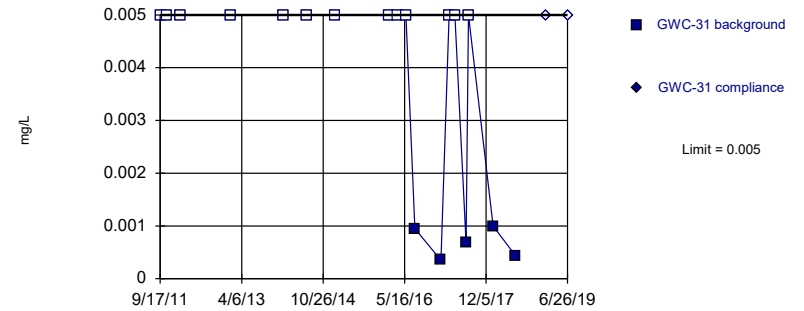


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

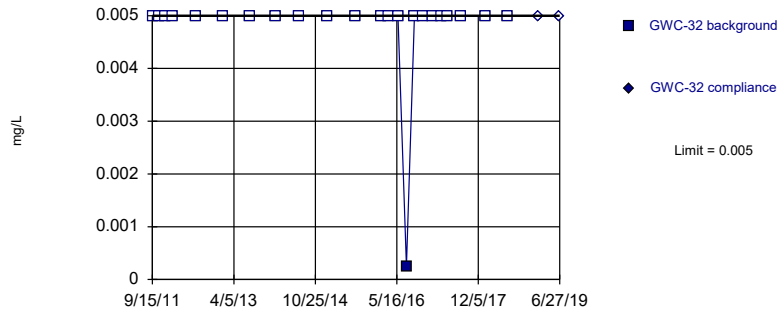


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

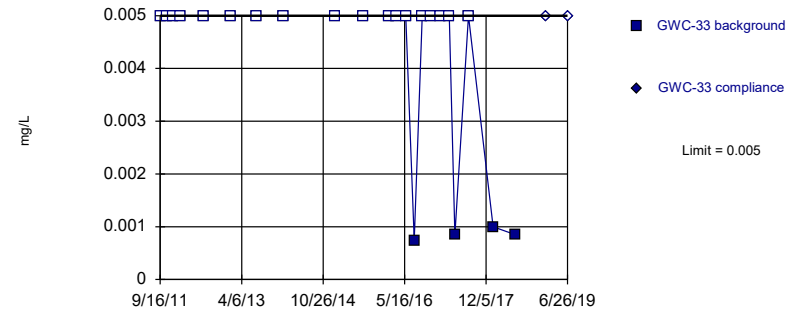


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

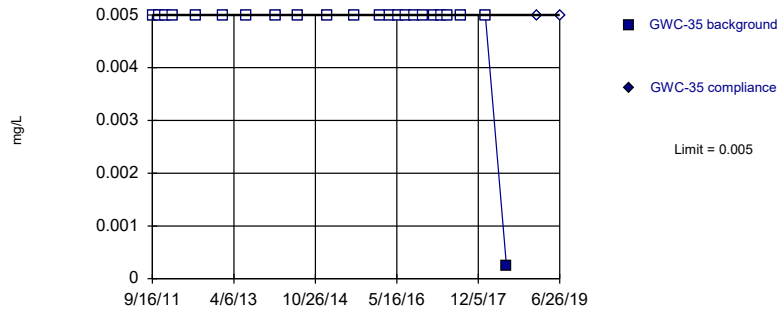


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

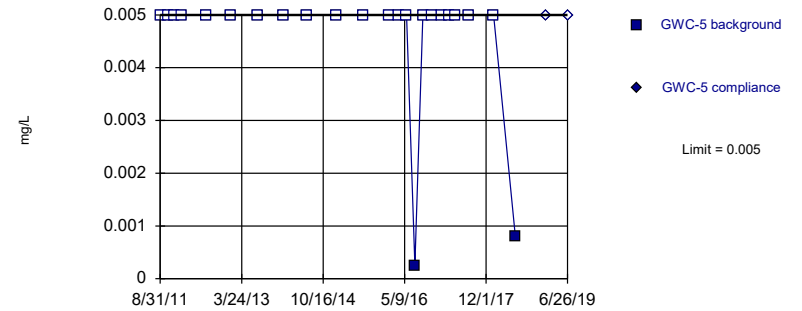


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

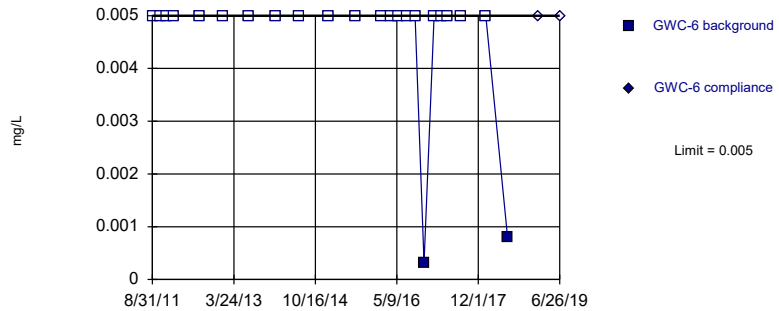


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

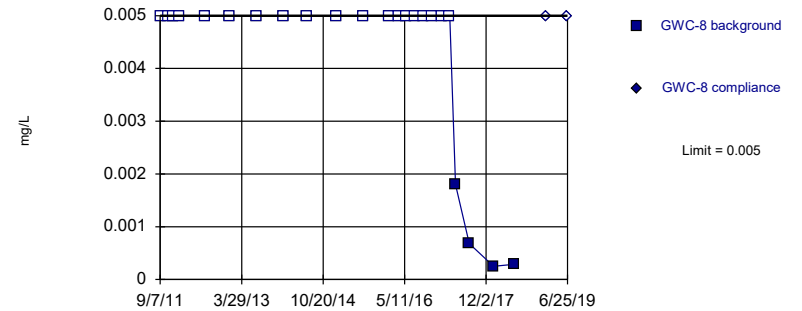


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:01 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Selenium Intrawell Non-parametric

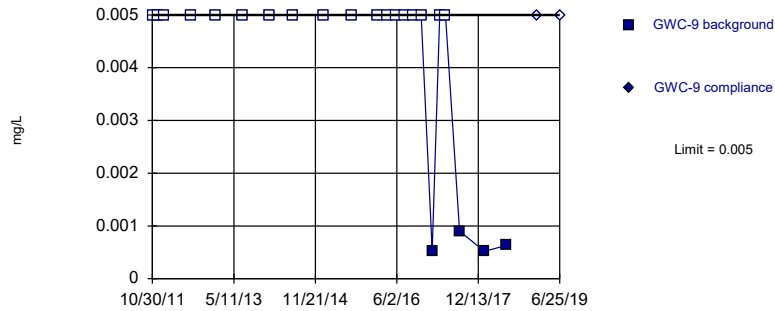


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Selenium  
Intrawell Non-parametric

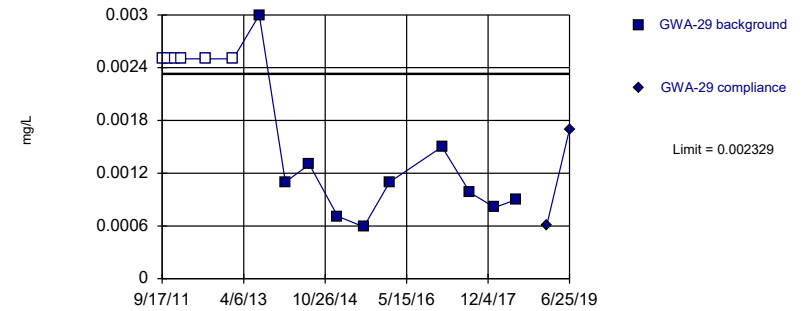


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Silver  
Intrawell Parametric

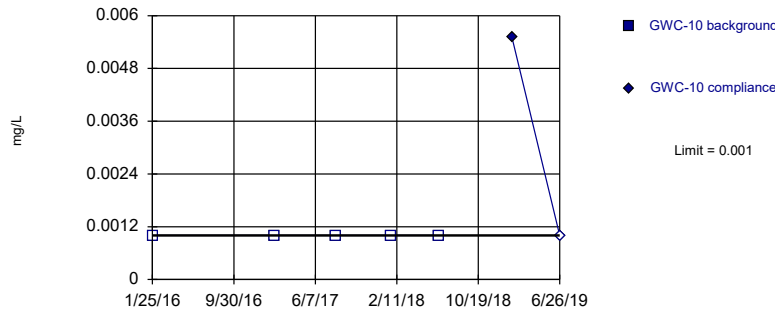


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03226, Std. Dev.=0.007215, n=16, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8621, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Silver  
Intrawell Non-parametric

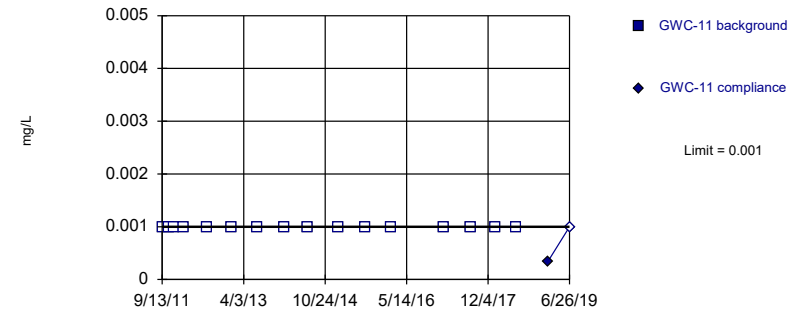


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Silver  
Intrawell Non-parametric

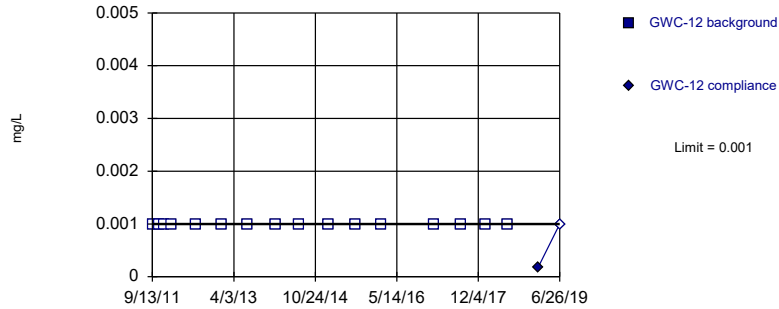


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

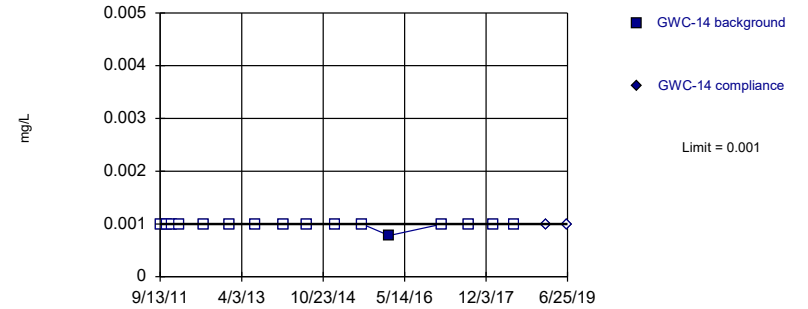


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

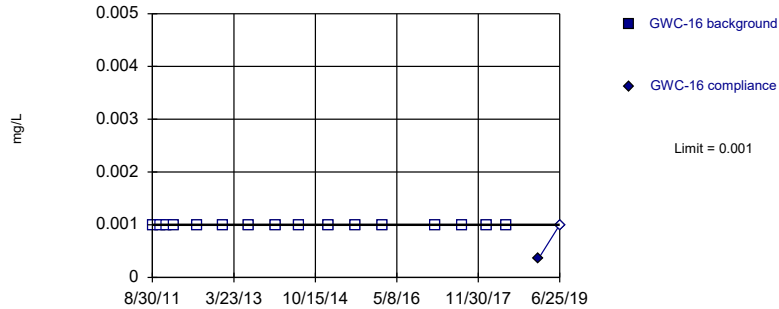


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

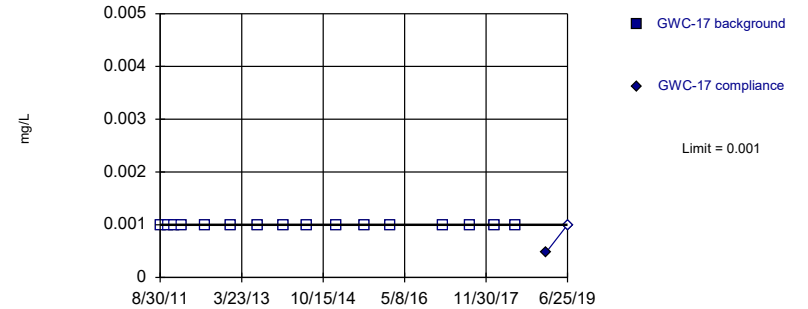


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

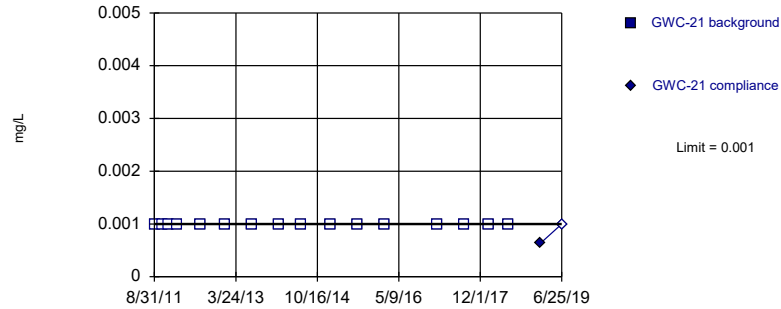


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

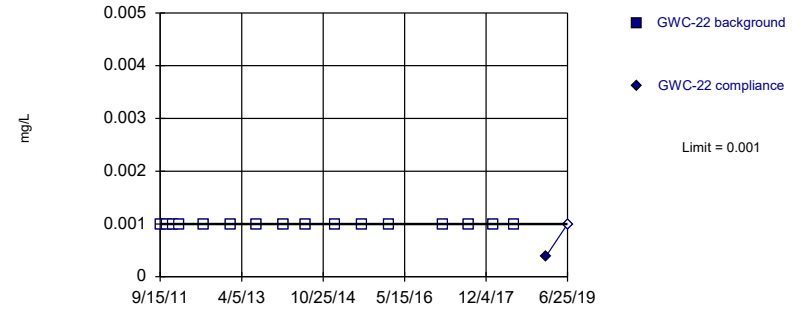


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

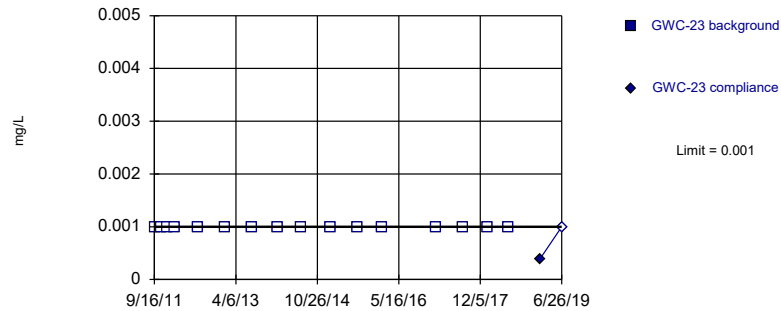


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

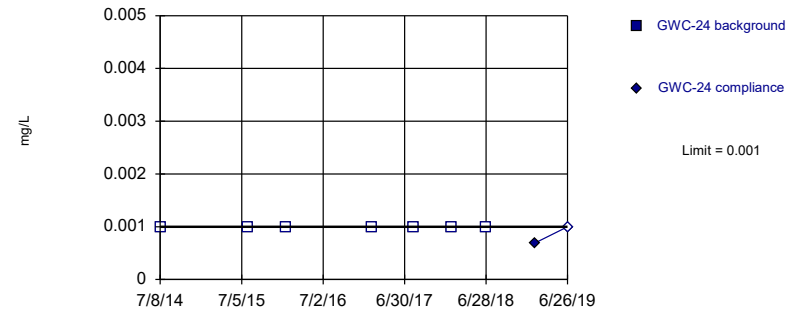


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric



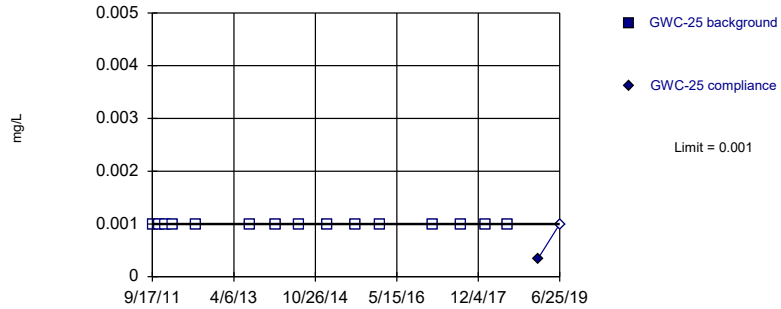
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 7) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Silver  
Intrawell Non-parametric

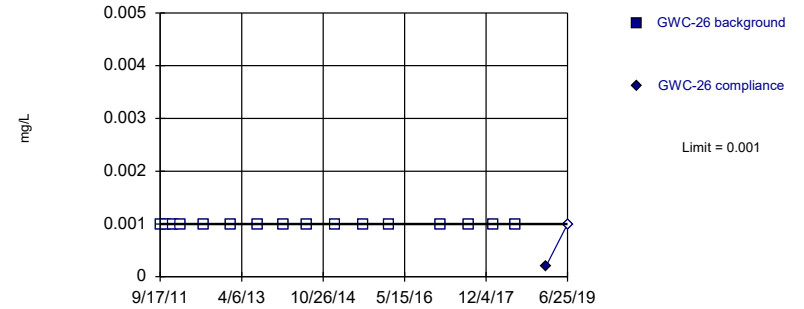


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Silver  
Intrawell Non-parametric

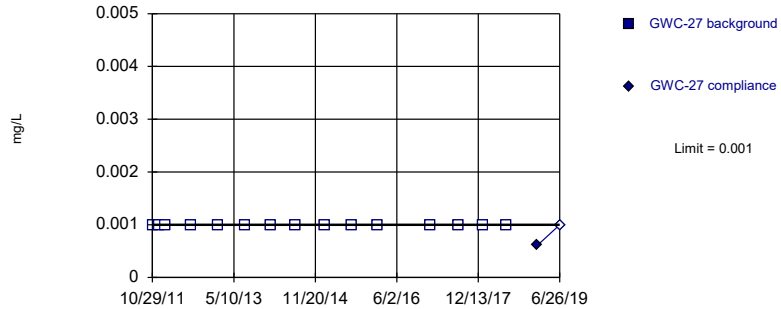


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Silver  
Intrawell Non-parametric

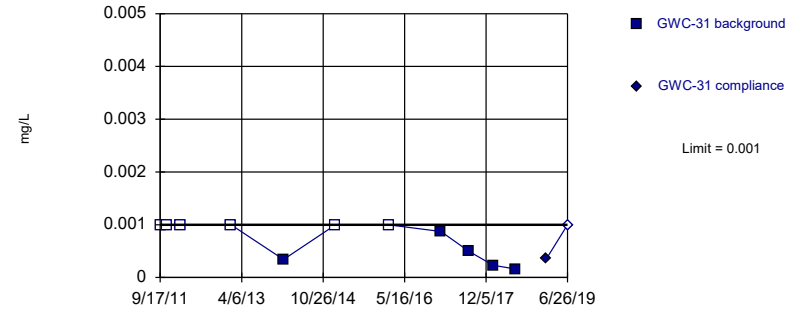


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Silver  
Intrawell Non-parametric

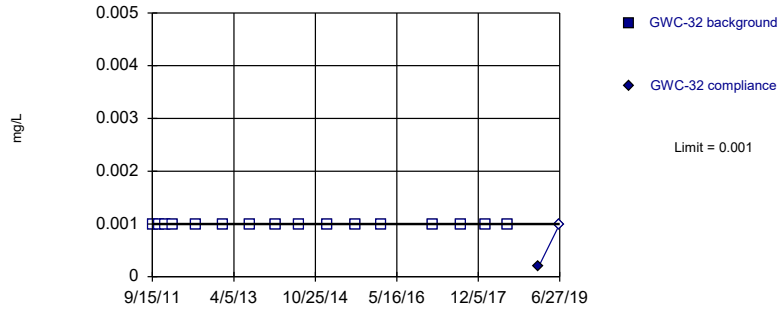


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

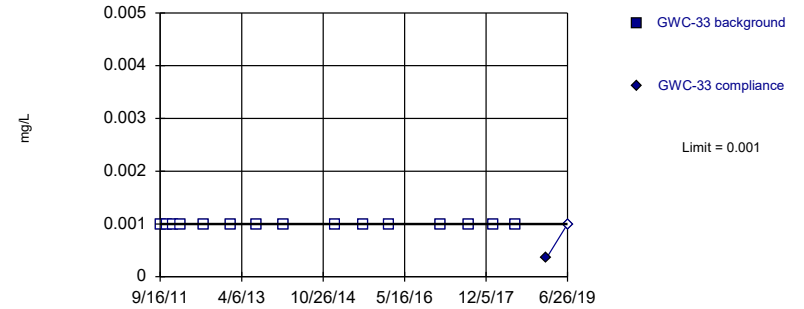


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

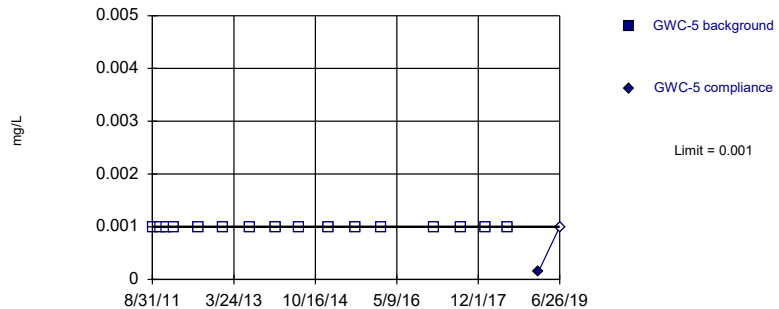


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

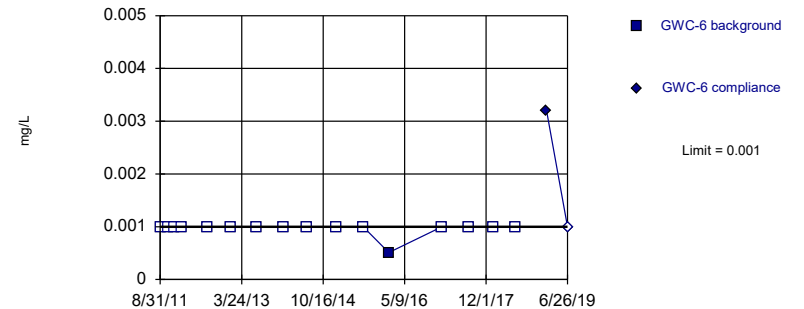


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Silver Intrawell Non-parametric

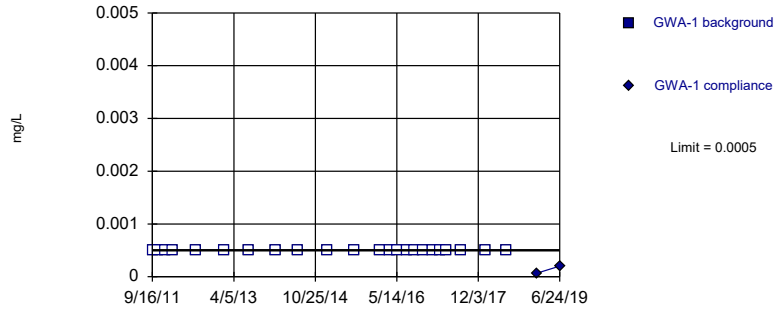


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Thallium  
Intrawell Non-parametric

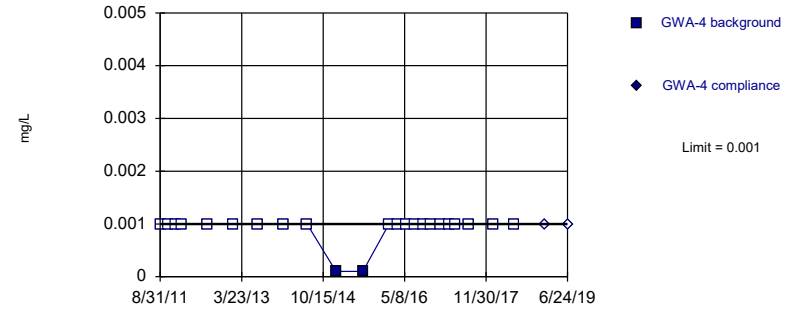


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Thallium  
Intrawell Non-parametric

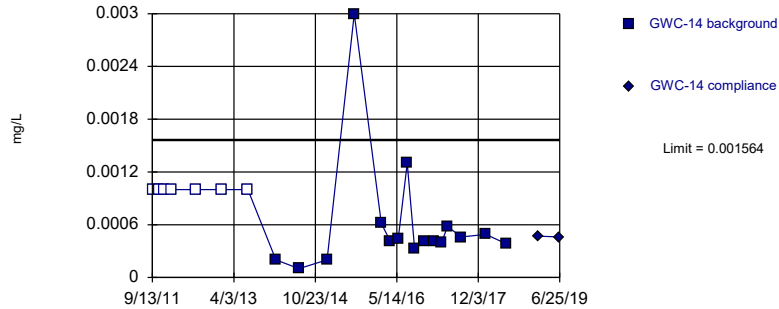


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Thallium  
Intrawell Parametric

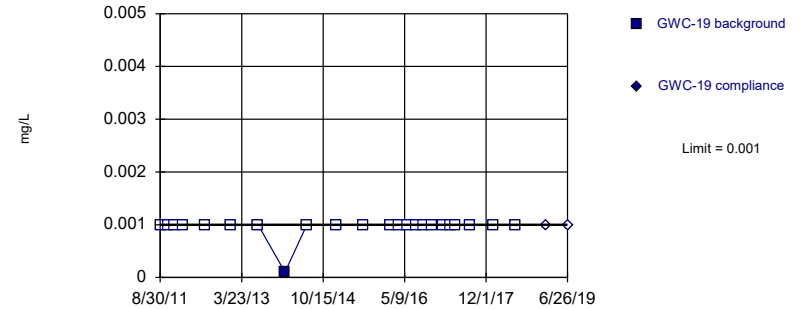


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.02098, Std. Dev.=0.009167, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.886, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Thallium  
Intrawell Non-parametric

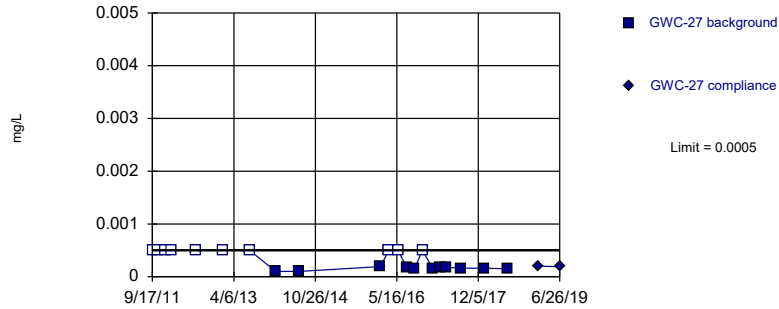


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Thallium  
Intrawell Non-parametric

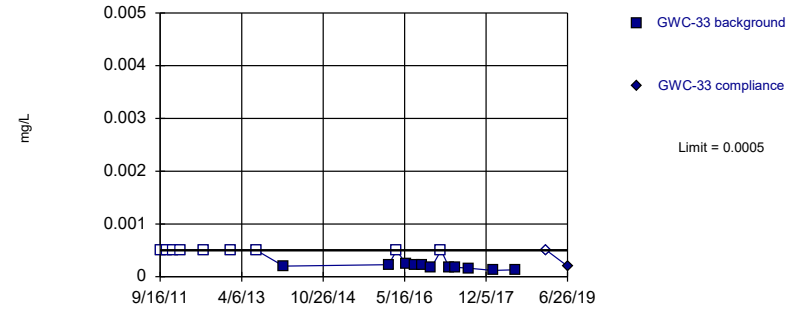


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 47.62% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Thallium  
Intrawell Non-parametric

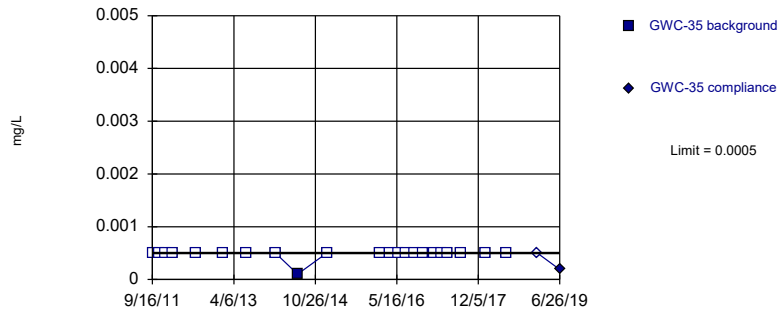


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 45% NDs. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Thallium  
Intrawell Non-parametric

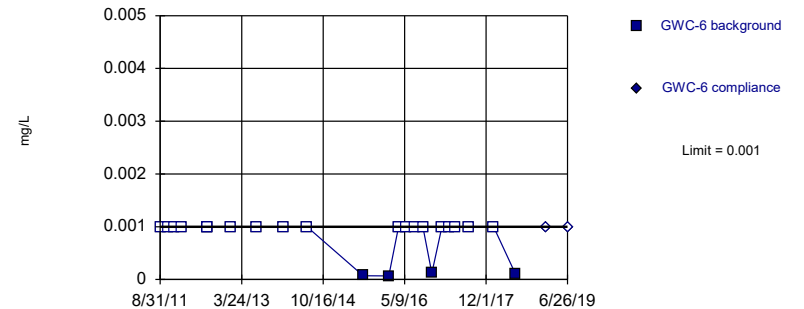


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Thallium  
Intrawell Non-parametric

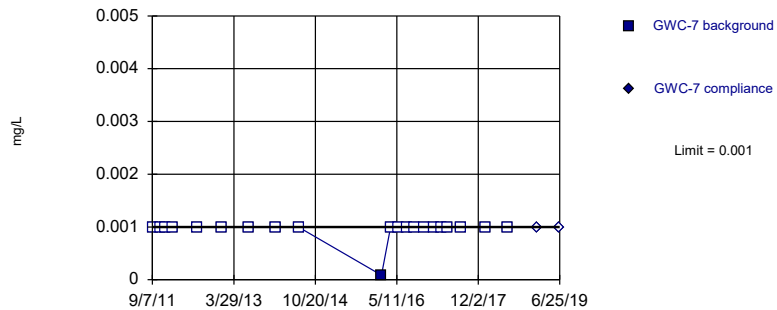


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Thallium Intrawell Non-parametric

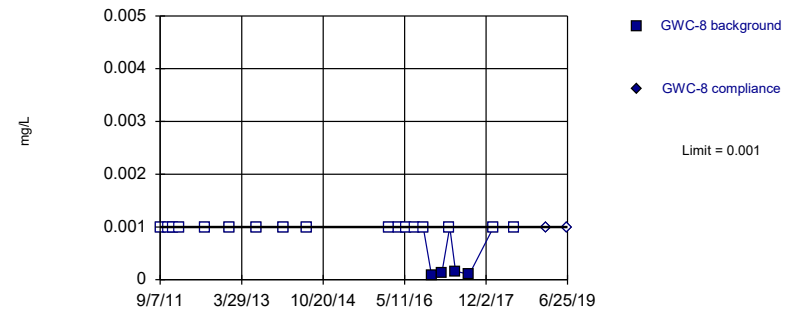


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Thallium Intrawell Non-parametric

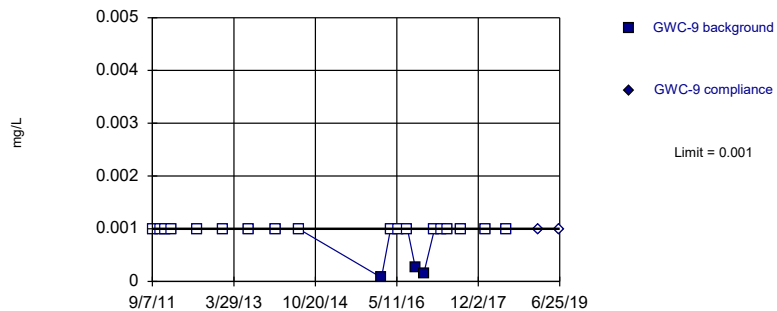


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Thallium Intrawell Non-parametric

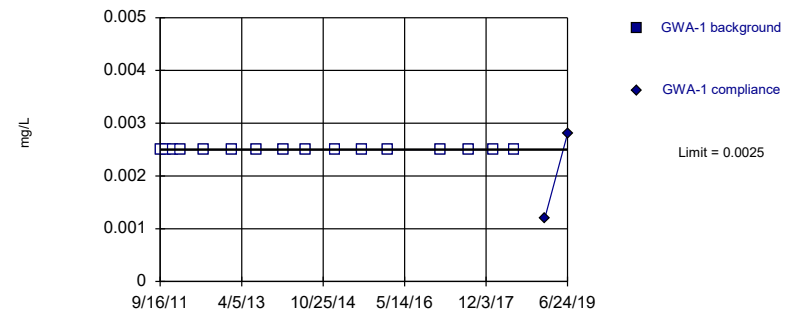


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:02 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Vanadium Intrawell Non-parametric

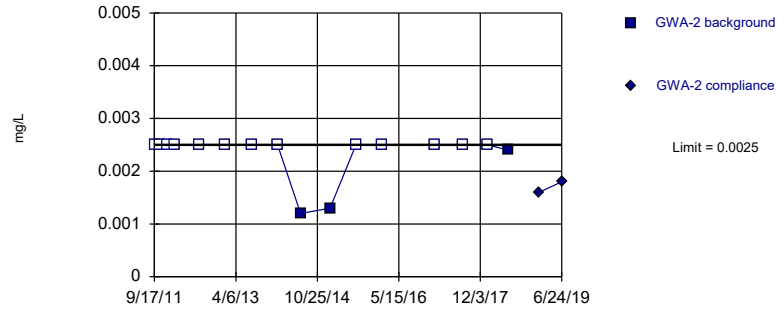


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Vanadium  
Intrawell Non-parametric

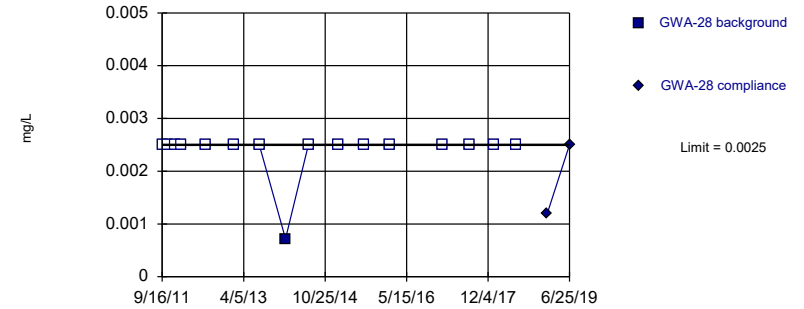


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Vanadium  
Intrawell Non-parametric

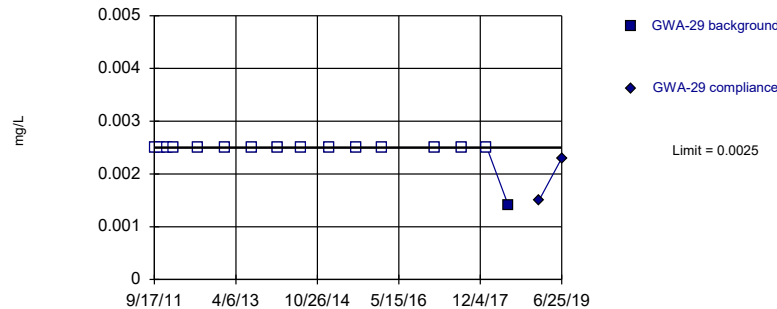


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Vanadium  
Intrawell Non-parametric

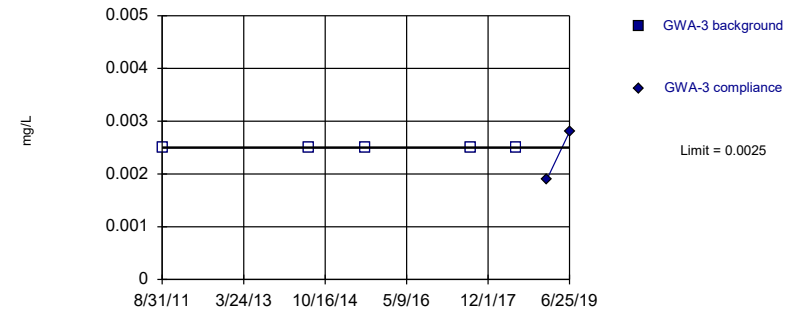


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Vanadium  
Intrawell Non-parametric

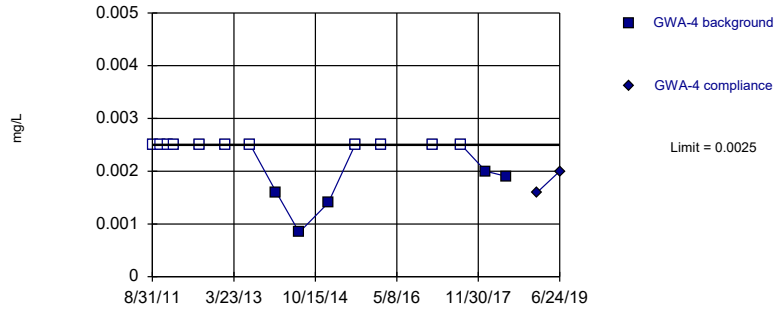


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Vanadium**  
Intrawell Non-parametric

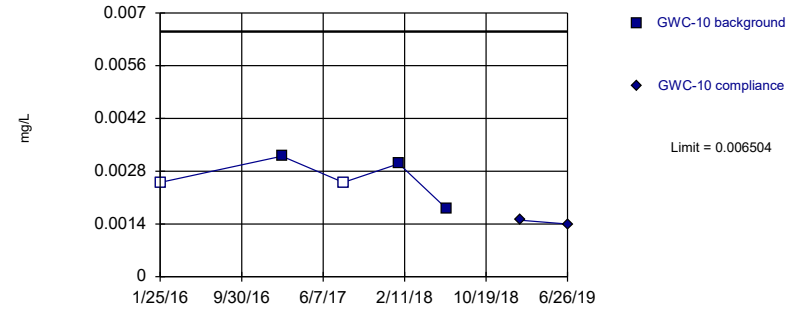


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Vanadium**  
Intrawell Parametric

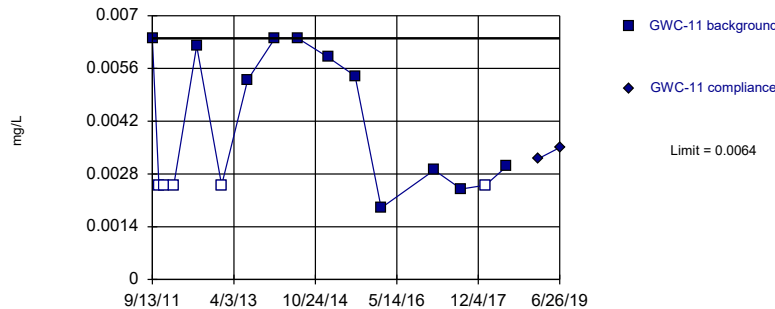


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00232, Std. Dev.=0.00064, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9363, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Vanadium**  
Intrawell Non-parametric

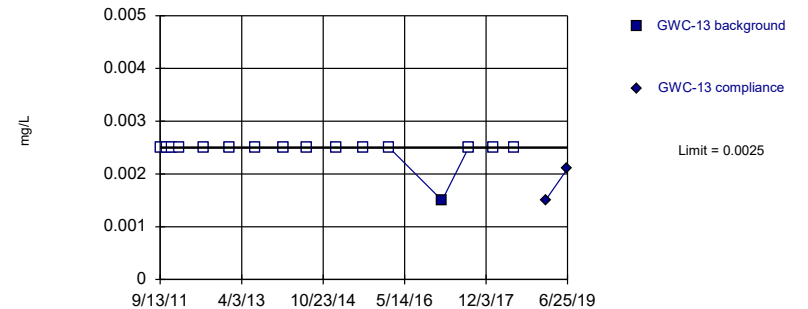


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 31.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Vanadium**  
Intrawell Non-parametric

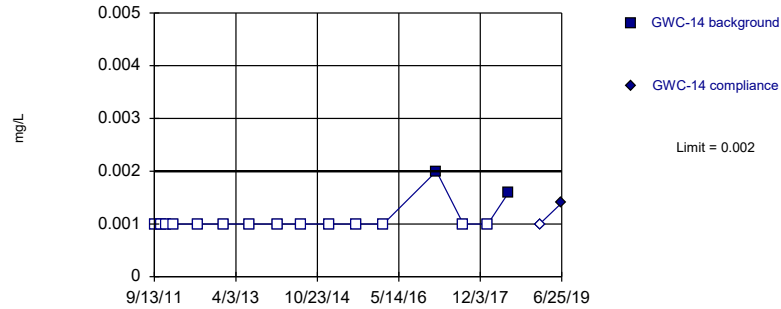


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Vanadium**  
Intrawell Non-parametric

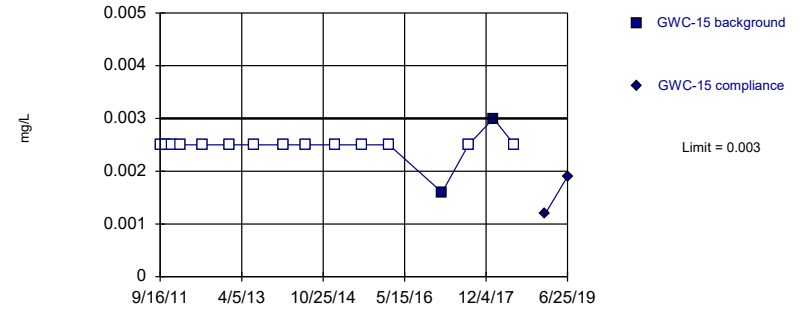


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Vanadium**  
Intrawell Non-parametric

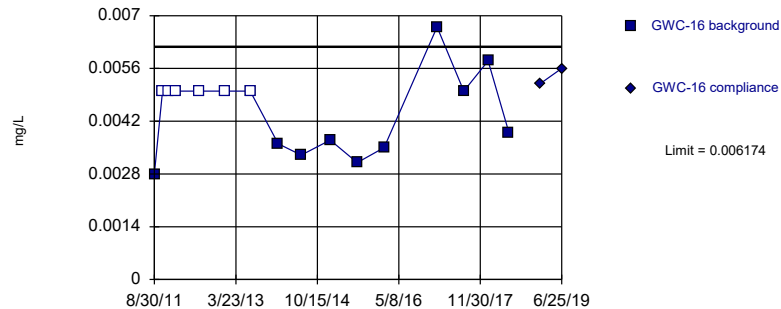


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Vanadium**  
Intrawell Parametric

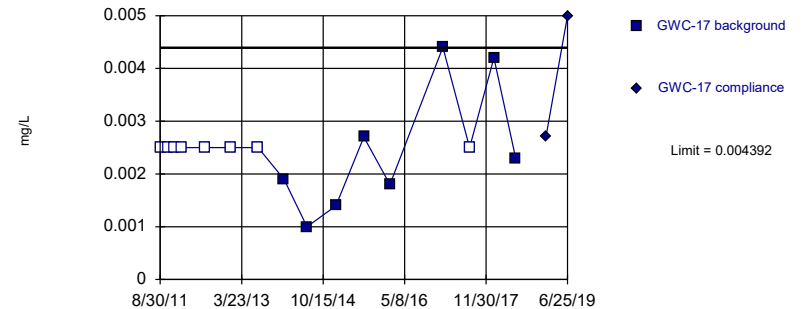


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003868, Std. Dev.=0.001039, n=16, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9117, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

**Vanadium**  
Intrawell Parametric



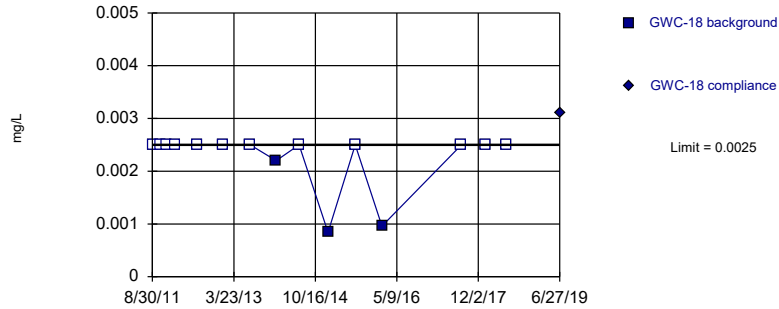
Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04443, Std. Dev.=0.009845, n=16, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8643, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Exceeds Limit

### Vanadium Intrawell Non-parametric

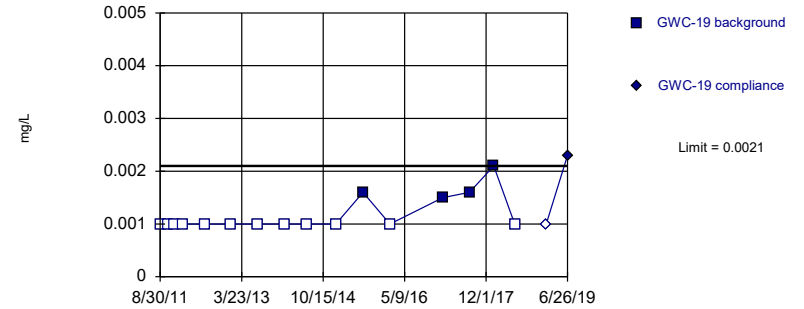


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Vanadium Intrawell Non-parametric

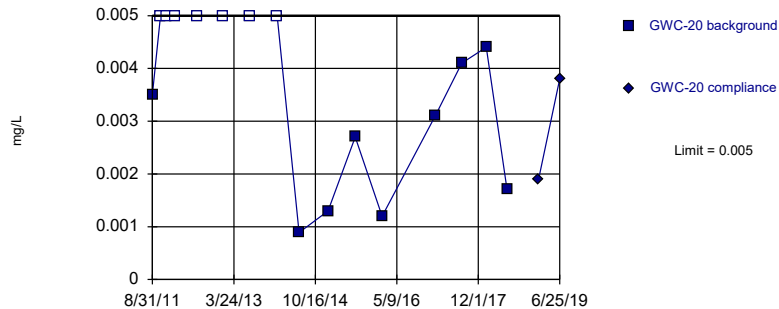


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

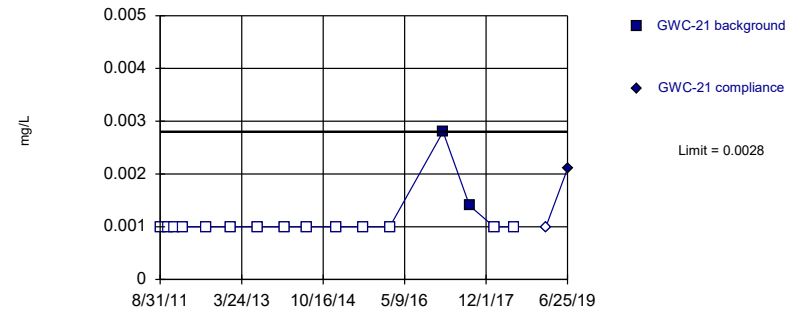


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 43.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

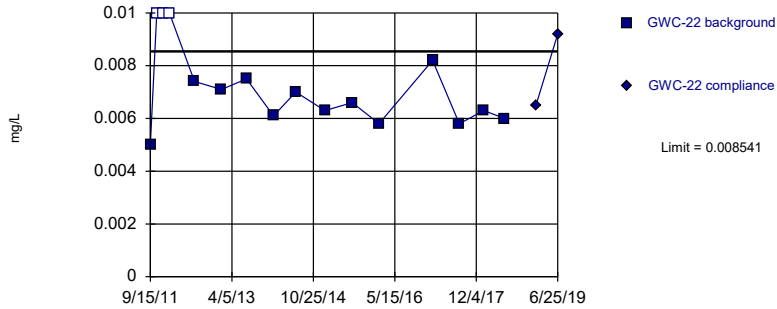


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

### Vanadium Intrawell Parametric

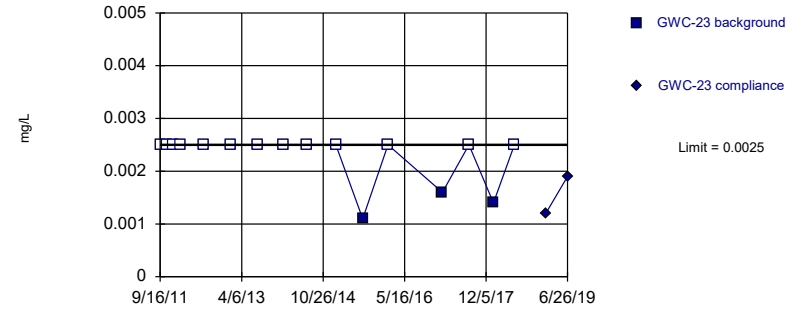


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006429, Std. Dev.=0.0009517, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8721, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

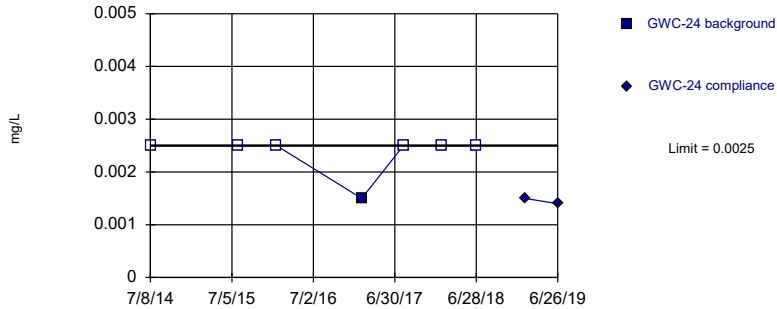


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

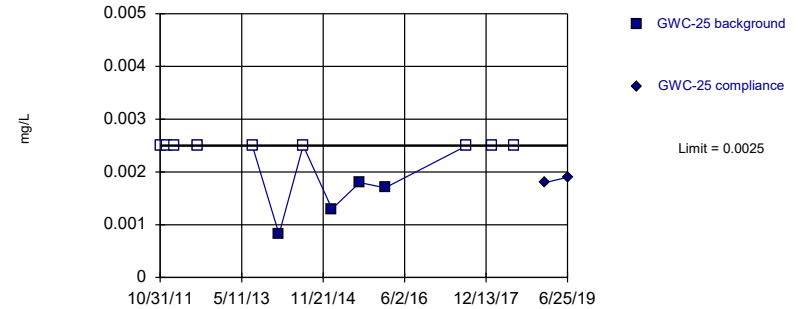


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

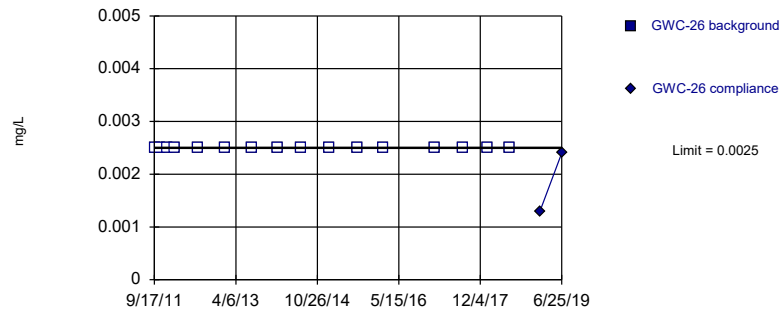


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.003769. Individual comparison alpha = 0.001886 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:03 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

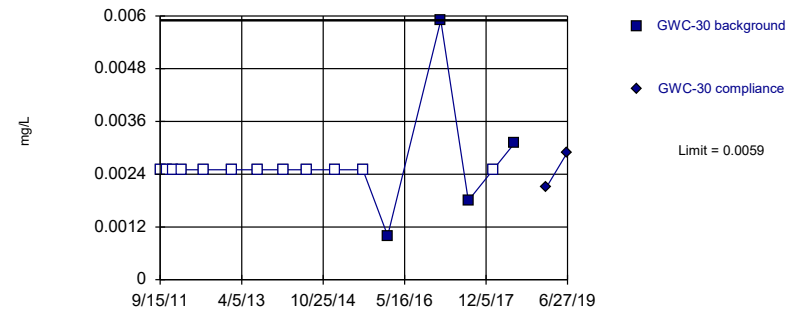


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

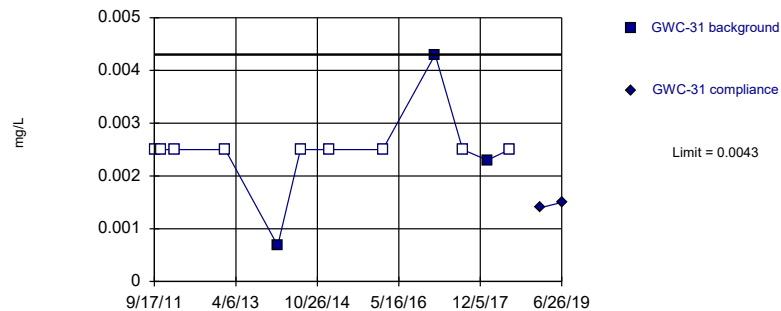


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

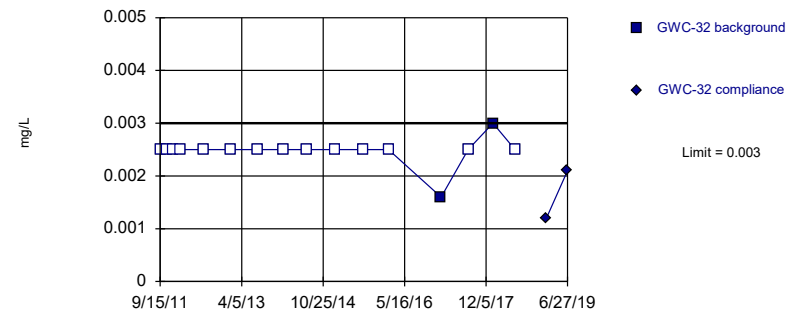


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

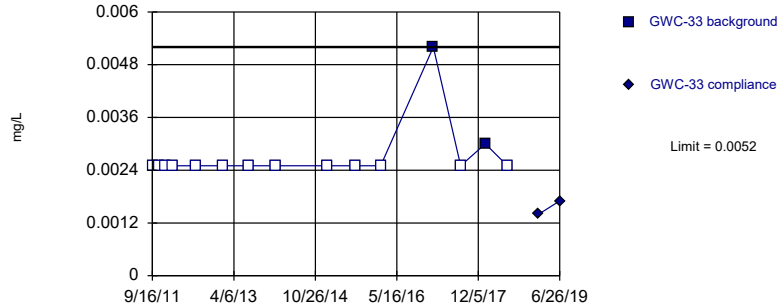


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Vanadium  
Intrawell Non-parametric

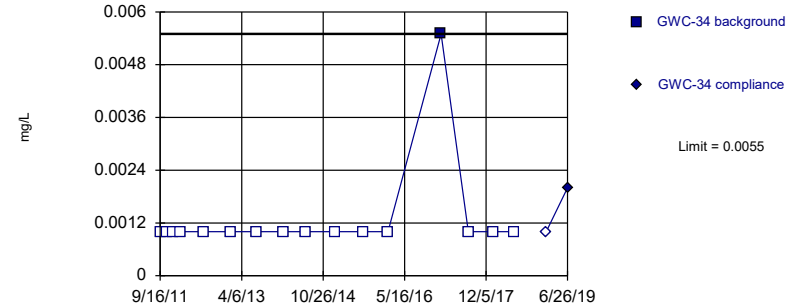


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Vanadium  
Intrawell Non-parametric

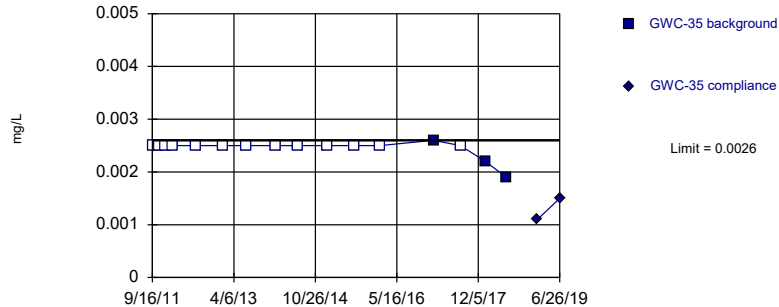


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Vanadium  
Intrawell Non-parametric

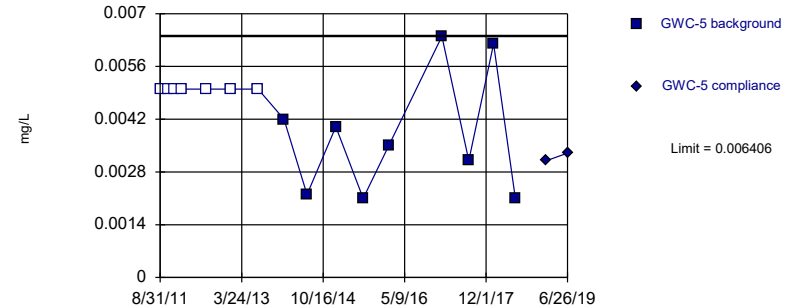


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Vanadium  
Intrawell Parametric

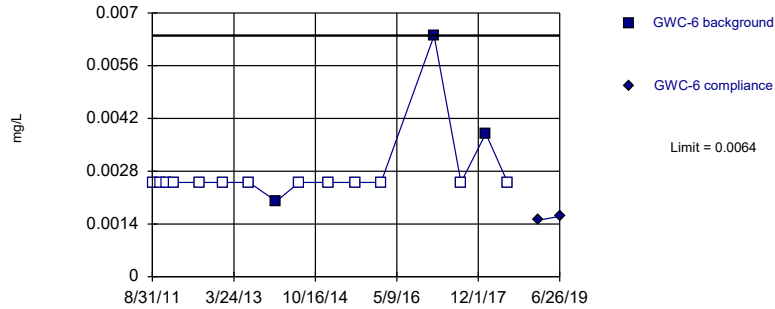


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003438, Std. Dev.=0.001338, n=16, 43.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8883, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

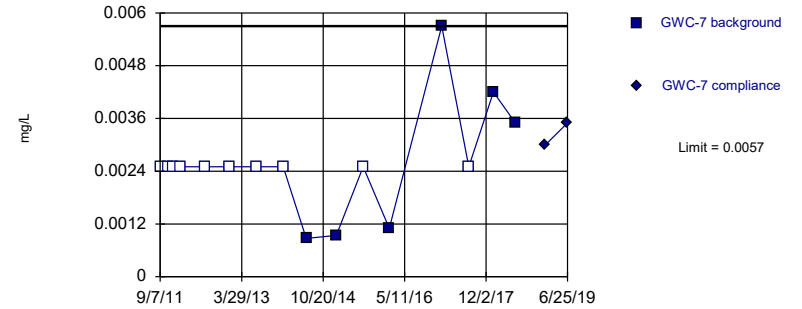


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

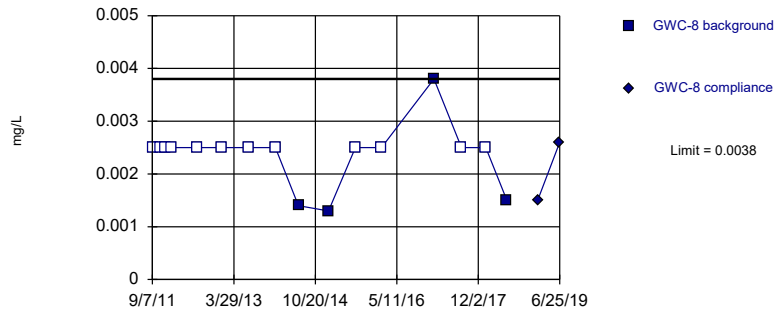


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

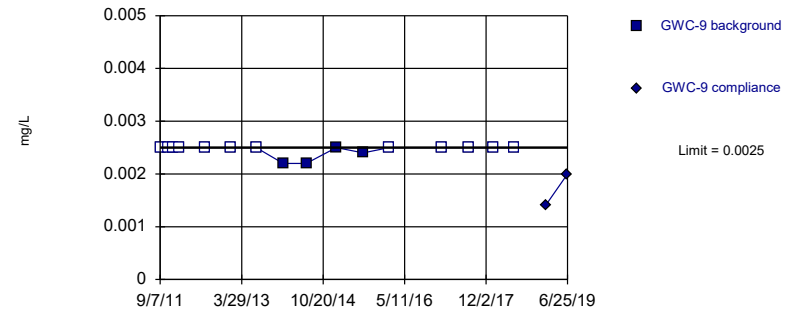


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Vanadium Intrawell Non-parametric

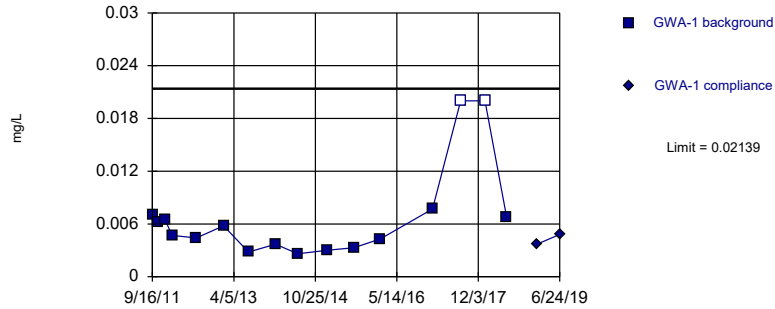


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Zinc Intrawell Parametric

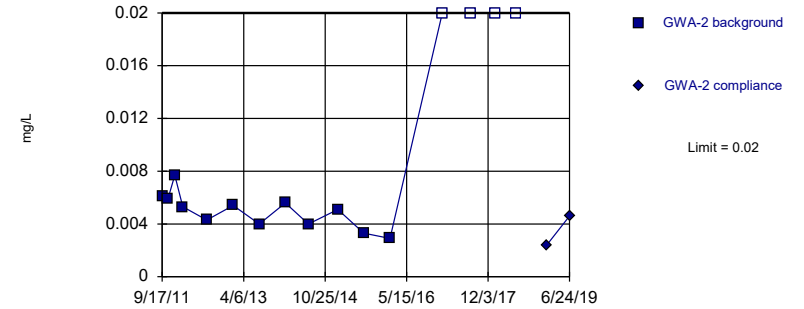


Background Data Summary (based on natural log transformation): Mean=-5.193, Std. Dev.=0.6076, n=16, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8888, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Zinc Intrawell Non-parametric

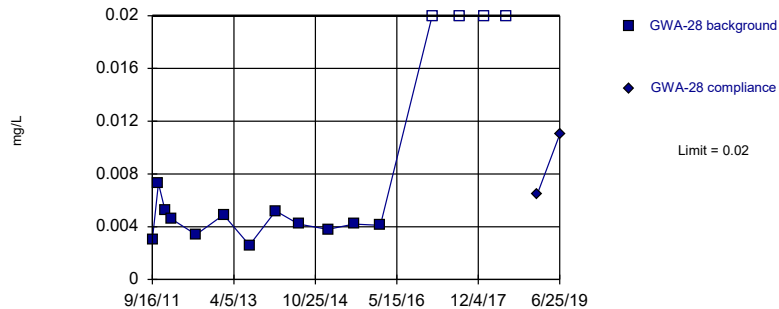


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Zinc Intrawell Non-parametric

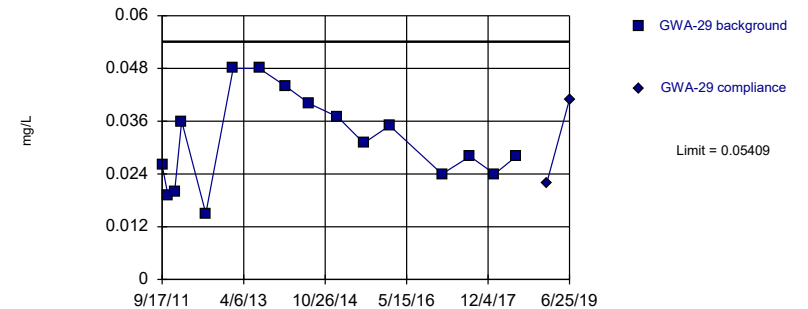


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Zinc Intrawell Parametric

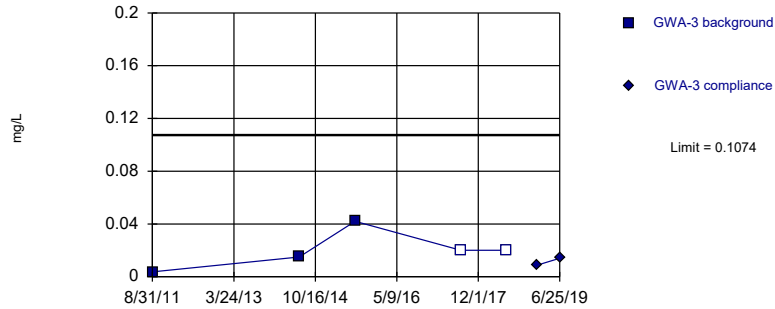


Background Data Summary: Mean=0.03144, Std. Dev.=0.01021, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9596, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

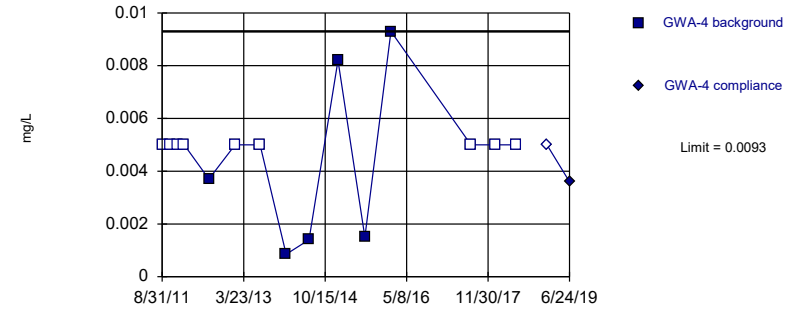


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.01588, Std. Dev.=0.014, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9176, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

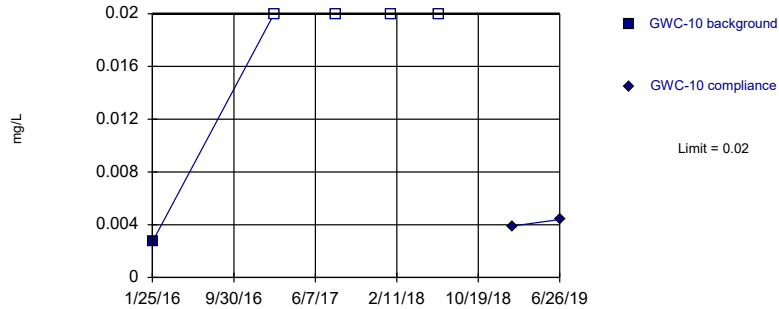


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

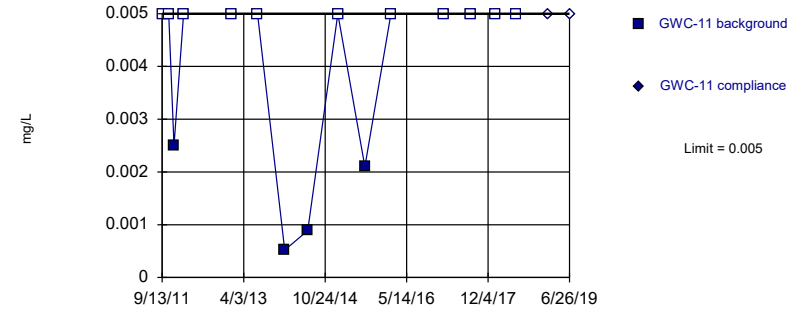


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

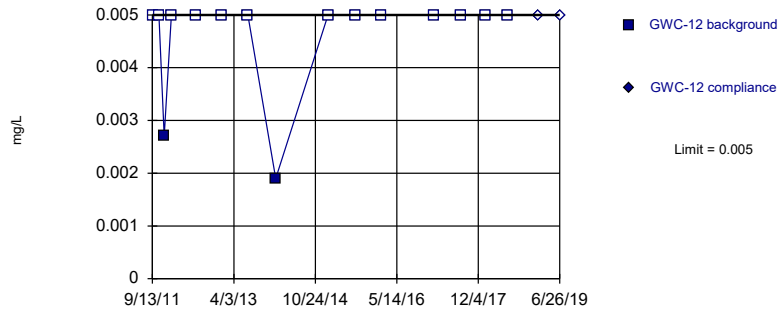


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:04 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

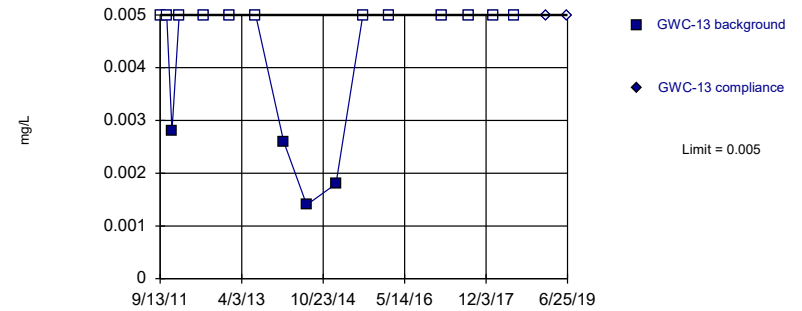


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

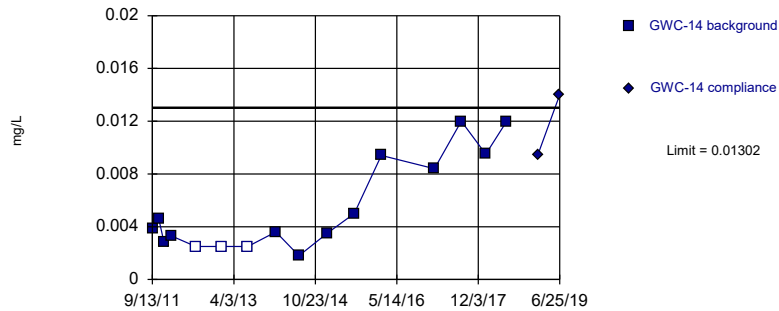


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Zinc  
Intrawell Parametric

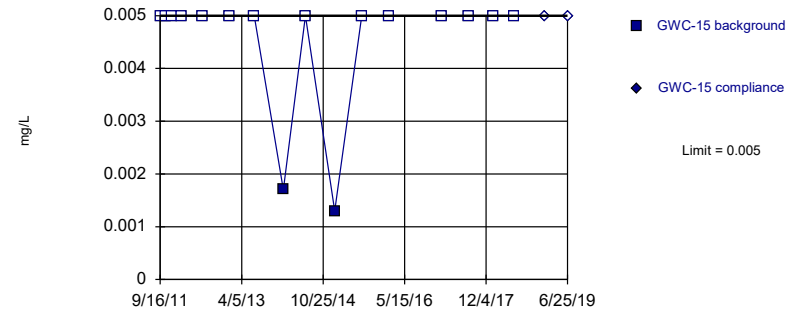


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.0662, Std. Dev.=0.02159, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8682, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric



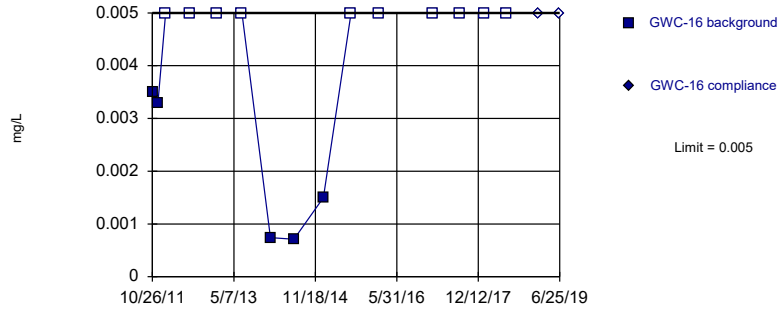
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

### Zinc Intrawell Non-parametric

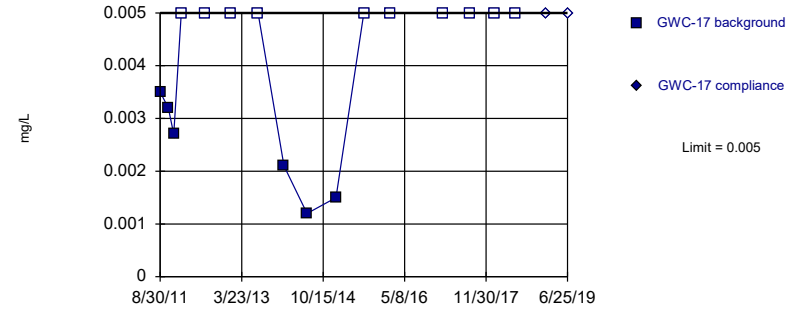


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Zinc Intrawell Non-parametric

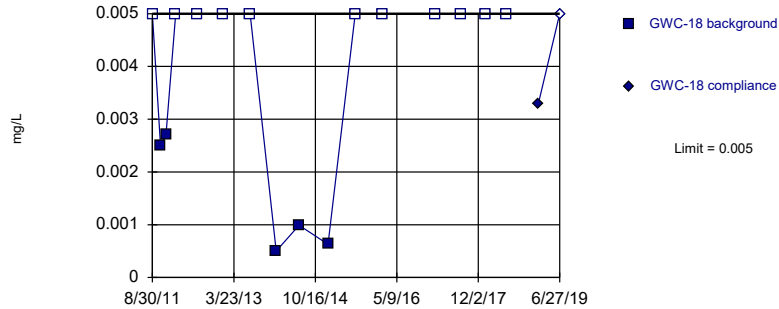


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Zinc Intrawell Non-parametric

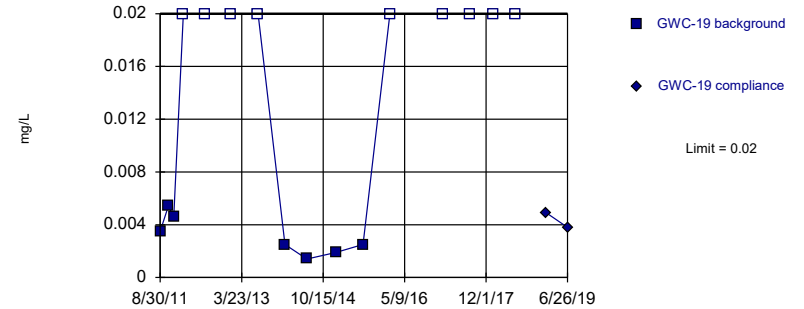


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Zinc Intrawell Non-parametric

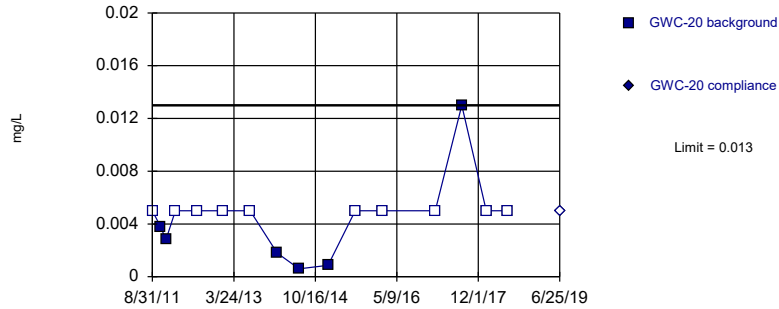


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

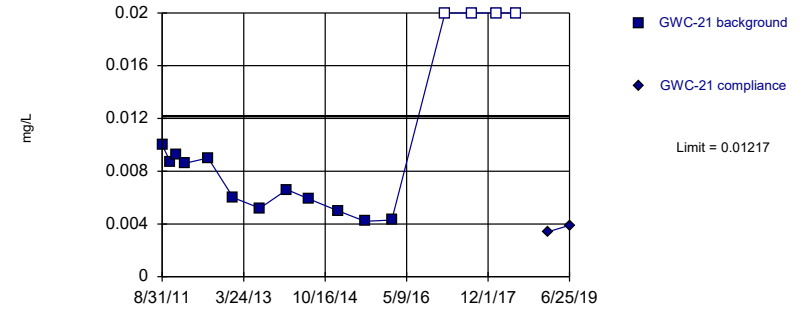


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

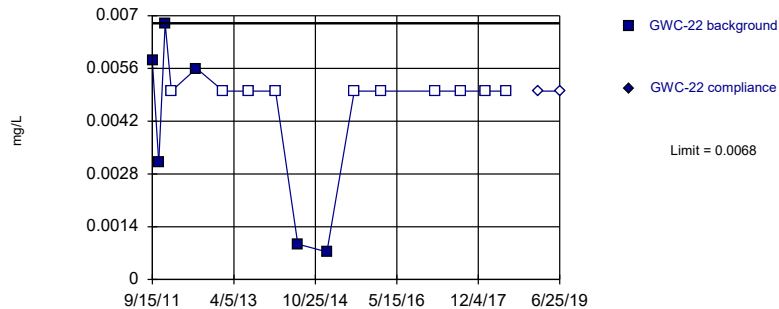


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1885, Std. Dev.=0.01871, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8467, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

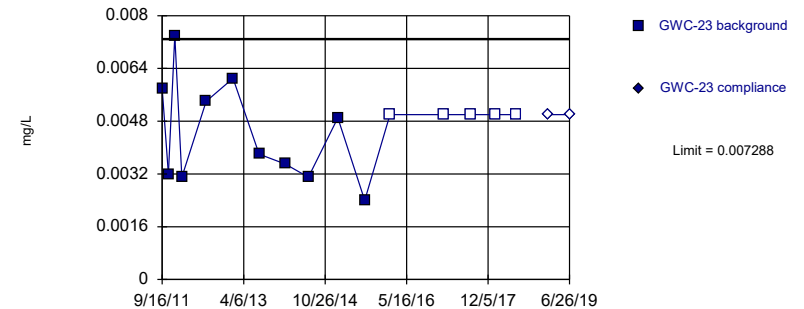


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

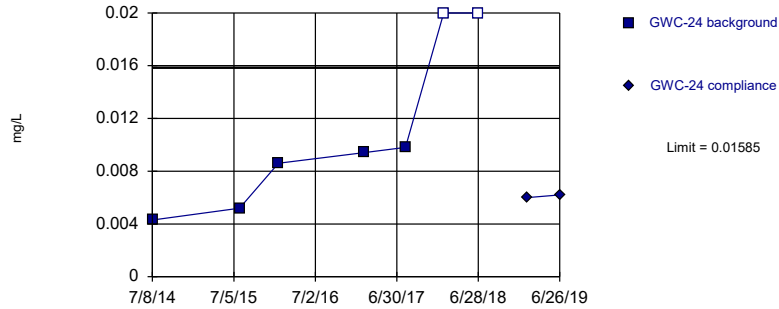


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00404, Std. Dev.=0.001464, n=16, 31.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9409, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

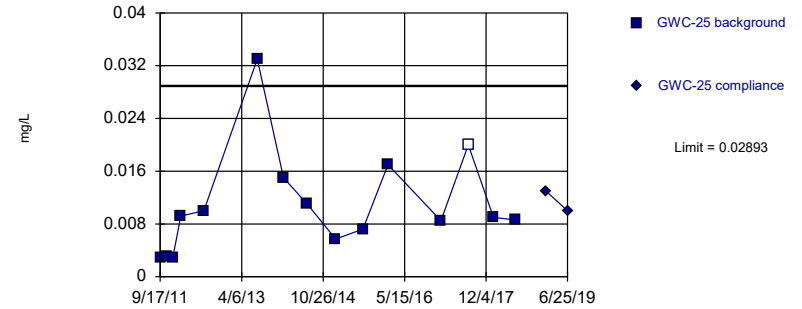


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00746, Std. Dev.=0.002264, n=7, 28.57% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8331, critical = 0.73. Kappa = 3.706 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

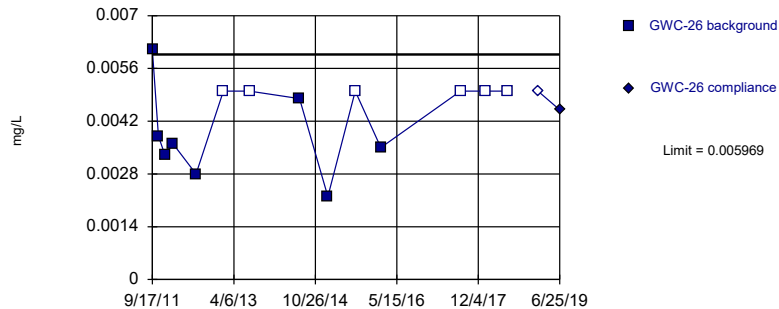


Background Data Summary: Mean=0.01086, Std. Dev.=0.007912, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8392, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

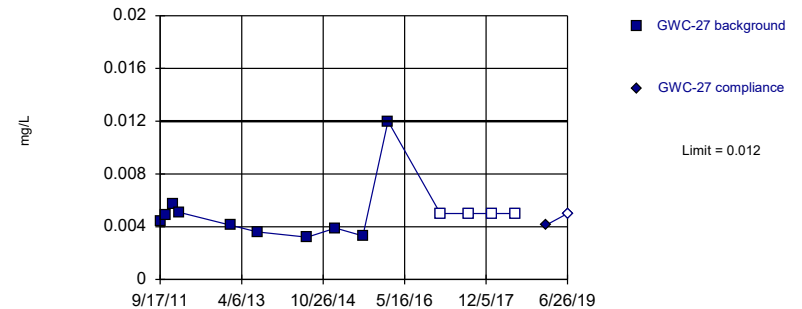


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003619, Std. Dev.=0.001, n=14, 42.86% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9003, critical = 0.825. Kappa = 2.349 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

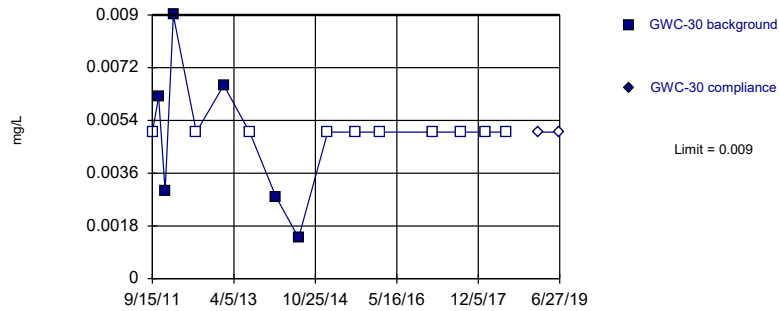


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 28.57% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

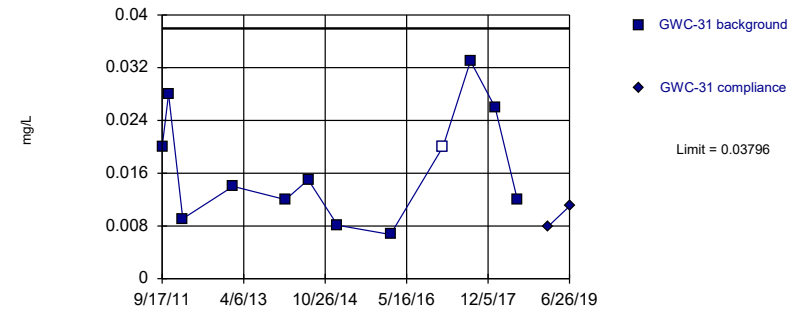


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

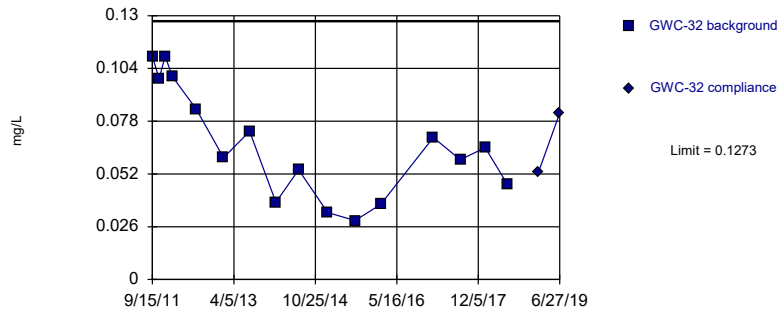


Background Data Summary: Mean=0.01699, Std. Dev.=0.008457, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

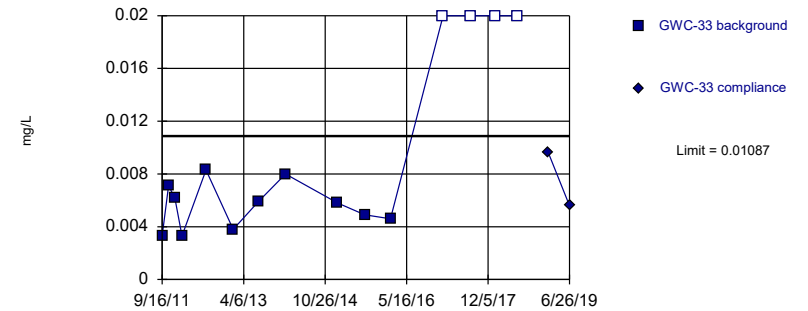


Background Data Summary: Mean=0.06675, Std. Dev.=0.02729, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9315, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:05 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

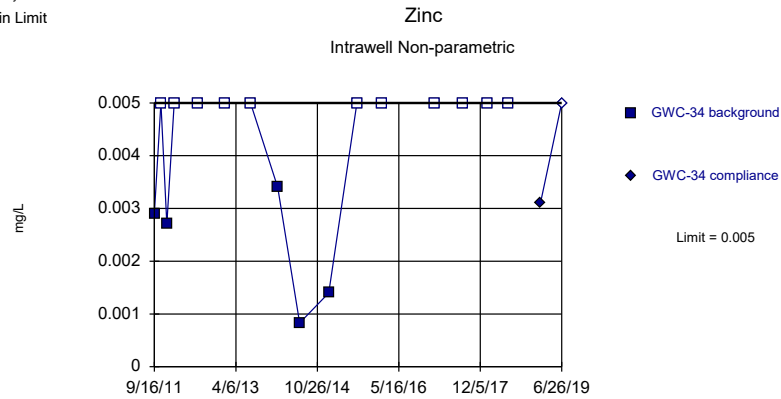
Zinc  
Intrawell Parametric



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.

Prediction Limit Analysis Run 8/9/2019 11:06 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

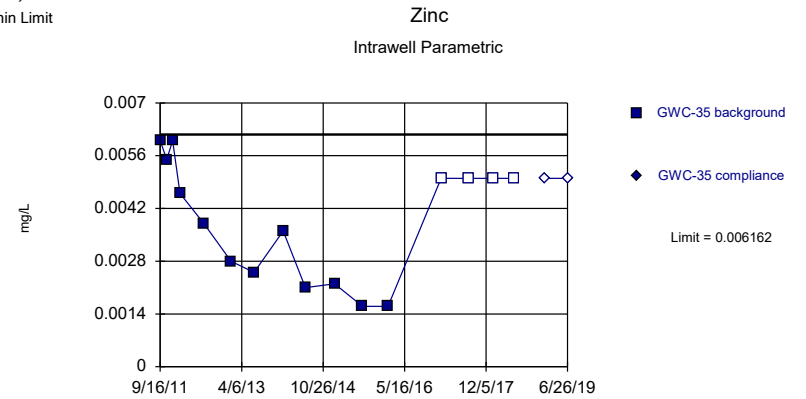
Within Limit



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).

Prediction Limit Analysis Run 8/9/2019 11:07 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

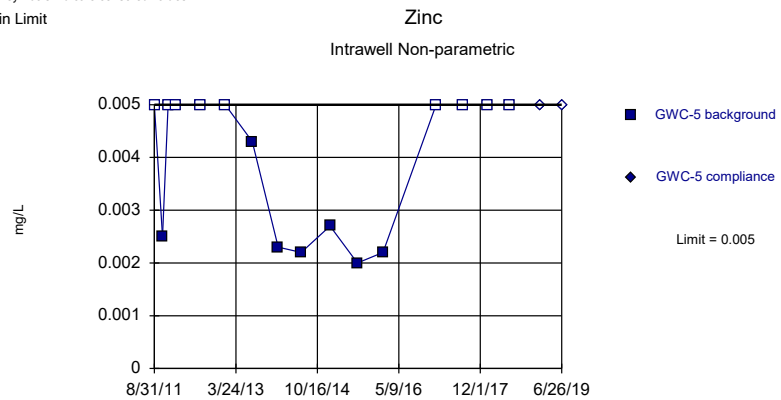
Within Limit



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.

Prediction Limit Analysis Run 8/9/2019 11:07 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

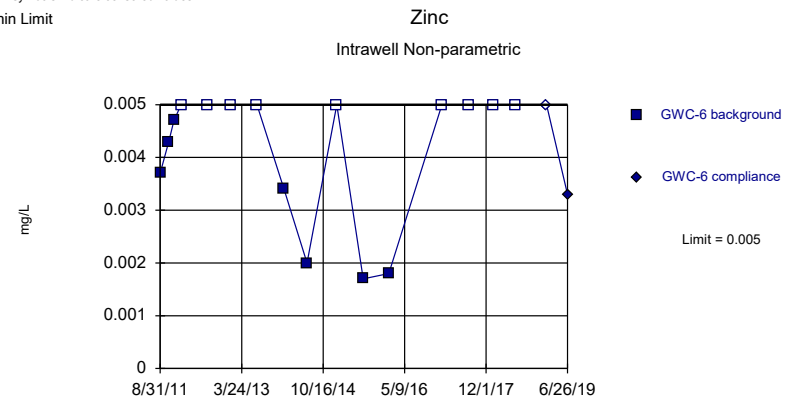
Within Limit



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).

Prediction Limit Analysis Run 8/9/2019 11:07 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

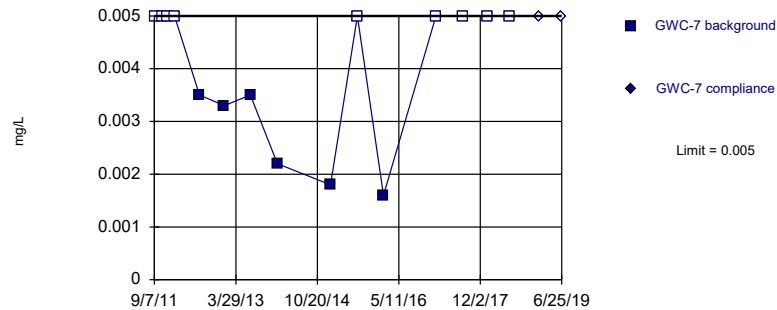


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:07 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Non-parametric

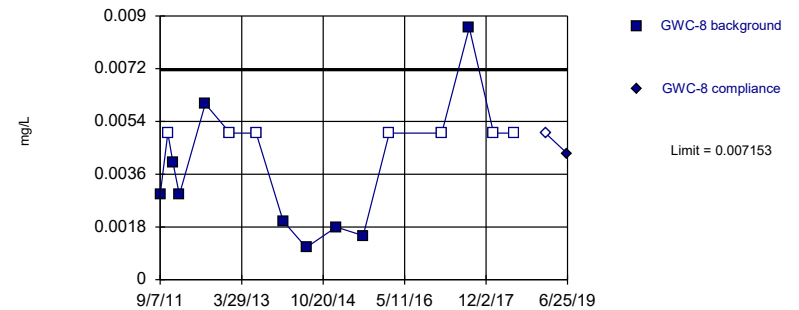


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Prediction Limit Analysis Run 8/9/2019 11:07 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
Intrawell Parametric

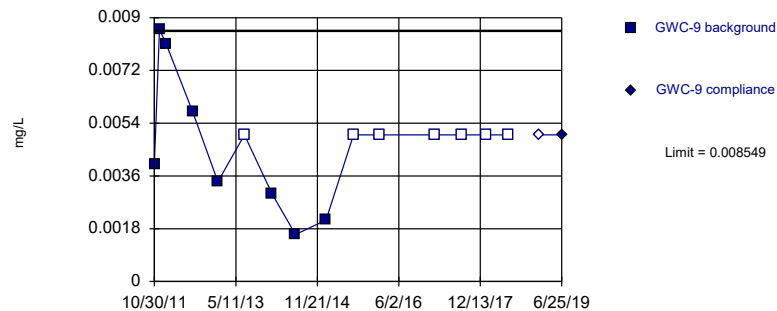


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002775, Std. Dev.=0.001974, n=16, 43.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9044, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Prediction Limit Analysis Run 8/9/2019 11:08 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Zinc  
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.

Prediction Limit Analysis Run 8/9/2019 11:08 AM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

# Prediction Limit

Constituent: Antimony Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29	GWA-3	GWA-3
8/31/2011							<0.002	
9/16/2011			<0.002					
9/17/2011	<0.002				<0.002			
10/27/2011	<0.002							
10/28/2011			<0.002		<0.002			
12/12/2011			<0.002		<0.002			
12/14/2011	<0.002							
1/25/2012			<0.002					
1/31/2012					<0.002			
2/7/2012	<0.002							
7/16/2012			<0.002					
7/17/2012					<0.002			
7/23/2012	<0.002							
1/23/2013	<0.002							
1/24/2013			<0.002		<0.002			
7/23/2013			<0.002					
7/24/2013	<0.002				<0.002			
1/22/2014	<0.002		<0.002		<0.002			
6/25/2014							<0.002	
7/1/2014	<0.002		<0.002					
7/8/2014					<0.002 (D)			
1/21/2015			<0.002		<0.002			
1/22/2015	<0.002							
7/21/2015			<0.002				<0.002	
7/22/2015	<0.002				<0.002			
1/19/2016					<0.002 (D)			
1/20/2016	<0.002							
1/22/2016			<0.002					
3/22/2016			<0.002		0.00113 (J)			
3/23/2016	0.00069 (J)							
3/31/2016							0.000602 (J)	
5/19/2016					0.00103 (J)			
5/23/2016			0.00103 (J)					
5/24/2016	<0.002							
5/25/2016							0.000642 (J)	
7/21/2016					0.0013 (J)			
7/25/2016			0.0021 (J)					
7/26/2016	0.0021 (J)							
7/27/2016							<0.002	
9/15/2016			0.0012 (J)					
9/16/2016	<0.002							
11/9/2016			<0.002					
11/10/2016	<0.002							
1/17/2017			<0.002		<0.002			
1/19/2017	<0.002							
3/16/2017			<0.002					
3/17/2017	<0.002							
4/27/2017			<0.002		<0.002			
4/28/2017	<0.002							
7/18/2017					<0.002			
8/1/2017			<0.002		<0.002		<0.002	
8/2/2017	<0.002							

# Prediction Limit

Constituent: Antimony Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29	GWA-3	GWA-3
10/3/2017							<0.002	
1/19/2018	<0.002		<0.002		<0.002			
6/19/2018	<0.002		<0.002		<0.002			
6/20/2018							<0.002	
1/17/2019		<0.002						
1/18/2019						<0.002		<0.002
1/21/2019				<0.002				
6/24/2019		<0.002						
6/25/2019				<0.002		<0.002		<0.002



# Prediction Limit

Constituent: Antimony Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10	GWC-11	GWC-11	GWC-18	GWC-18	GWC-22	GWC-22
8/30/2011					<0.002			
9/13/2011			<0.002					
9/15/2011							<0.002	
10/26/2011					<0.002			
10/28/2011			<0.002					
10/29/2011							<0.002	
12/3/2011					<0.002			
12/4/2011			<0.002					
12/13/2011							<0.002	
1/25/2012							<0.002	
2/9/2012			<0.002		<0.002			
7/11/2012					<0.002			
7/18/2012			<0.002				<0.002	
1/8/2013			<0.002		<0.002			
1/22/2013							<0.002	
7/9/2013			<0.002					
7/16/2013					<0.002		<0.002	
1/14/2014					<0.002			
1/15/2014			0.0023 (J)					
1/21/2014							<0.002	
6/24/2014					<0.002			
6/25/2014			<0.002				<0.002	
1/13/2015					<0.002			
1/14/2015							<0.002	
1/21/2015			<0.002					
7/23/2015					<0.002		<0.002	
7/28/2015			<0.002					
1/25/2016	<0.002							
1/26/2016			<0.002				<0.002	
1/27/2016					<0.002			
3/29/2016			<0.002					
3/30/2016	<0.002				<0.002			
3/31/2016							<0.002	
5/25/2016	0.000703 (J)		<0.002					
5/26/2016					<0.002		<0.002	
7/25/2016			<0.002		0.0022 (J)			
7/26/2016							0.001 (J)	
7/27/2016	<0.002							
9/16/2016	<0.002							
9/19/2016			<0.002		<0.002			
9/20/2016							<0.002	
11/16/2016			<0.002					
11/17/2016	<0.002				<0.002		<0.002	
1/31/2017			<0.002					
2/1/2017	<0.002				<0.002			
2/3/2017							<0.002	
3/23/2017			<0.002					
3/24/2017	<0.002				<0.002			
3/28/2017							<0.002	
5/2/2017			<0.002					
5/3/2017	<0.002				<0.002		<0.002	
8/7/2017			<0.002		<0.002			

# Prediction Limit

Constituent: Antimony Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10	GWC-11	GWC-11	GWC-18	GWC-18	GWC-22	GWC-22
8/8/2017	<0.002						<0.002	
1/24/2018			<0.002					
1/25/2018	<0.002				<0.002		<0.002	
6/20/2018			<0.002				<0.002	
6/21/2018	<0.002				<0.002			
1/24/2019				<0.002				<0.002
1/28/2019						<0.002		
1/31/2019		0.00048 (J)						
6/25/2019								<0.002
6/26/2019		<0.002		<0.002				
6/27/2019						<0.002		

# Prediction Limit

Constituent: Antimony Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26
9/16/2011	<0.002							
9/17/2011					<0.002		<0.002	
10/29/2011	<0.002						<0.002	
10/31/2011					<0.002			
12/13/2011	<0.002							
12/14/2011					<0.002		<0.002	
1/31/2012	<0.002							
2/7/2012					<0.002		<0.002	
7/17/2012					<0.002		<0.002	
7/18/2012	<0.002							
1/22/2013	<0.002							
1/24/2013							<0.002	
7/23/2013	<0.002							
7/24/2013					<0.002		<0.002	
1/22/2014	<0.002							
1/23/2014					<0.002		<0.002	
7/1/2014	<0.002							
7/8/2014			<0.002		<0.002		<0.002	
1/21/2015					<0.002		<0.002	
1/22/2015	<0.002							
7/29/2015	<0.002							
7/30/2015					<0.002			
7/31/2015			<0.002				<0.002	
1/20/2016			<0.002					
1/21/2016	<0.002				<0.002			
1/25/2016							<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)					
5/25/2016	<0.002		0.00163 (J)		0.00151 (J)		0.000943 (J)	
7/26/2016							<0.002	
7/27/2016	<0.002		0.0019 (J)		<0.002			
9/16/2016			0.002 (J)					
9/19/2016					<0.002		<0.002	
9/20/2016	<0.002							
11/14/2016							<0.002	
11/15/2016					<0.002			
11/18/2016	<0.002		0.0011 (J)					
1/19/2017							<0.002	
1/24/2017					<0.002			
2/3/2017	<0.002		<0.002					
3/16/2017							<0.002	
3/23/2017					<0.002			
3/28/2017	<0.002							
3/29/2017			<0.002					
5/1/2017							<0.002	
5/2/2017					<0.002			
5/4/2017	<0.002		<0.002					
8/3/2017					<0.002		<0.002	
8/8/2017	<0.002		<0.002					
1/22/2018							<0.002	

# Prediction Limit

Constituent: Antimony Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26
1/25/2018	<0.002		<0.002		<0.002			
6/20/2018	<0.002							
6/27/2018			<0.002		<0.002		<0.002	
1/24/2019						<0.002		<0.002
1/25/2019		<0.002						
1/31/2019				0.00048 (J)				
6/25/2019						<0.002		<0.002
6/26/2019		<0.002		<0.002				

# Prediction Limit

Constituent: Antimony Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32
9/15/2011			<0.002				<0.002	
9/17/2011	<0.002				<0.002			
10/28/2011			<0.002					
10/29/2011	<0.002							
10/31/2011					<0.002		<0.002	
12/13/2011			<0.002				<0.002	
12/14/2011	<0.002							
1/25/2012	<0.002							
2/1/2012							<0.002	
2/7/2012					<0.002			
2/8/2012			<0.002					
7/17/2012	<0.002						<0.002	
7/18/2012			<0.002					
1/23/2013					<0.002		<0.002	
1/24/2013	<0.002		<0.002					
7/24/2013	<0.002		<0.002				<0.002	
1/23/2014	<0.002		0.0014 (J)		<0.002		<0.002	
7/1/2014			<0.002		<0.002		<0.002	
7/8/2014	<0.002							
1/20/2015			<0.002				<0.002	
1/21/2015	<0.002				<0.002			
7/30/2015	<0.002		<0.002				<0.002	
1/19/2016			<0.002					
1/22/2016	<0.002							
1/25/2016					<0.002		<0.002	
3/23/2016	<0.002		<0.002				<0.002	
3/30/2016					<0.002			
5/20/2016			<0.002					
5/24/2016	<0.002						<0.002	
5/25/2016					0.00129 (J)			
7/21/2016			<0.002					
7/22/2016							<0.002	
7/26/2016	0.0013 (J)							
7/27/2016					0.0027			
9/16/2016							<0.002	
9/19/2016	<0.002							
9/20/2016			0.0012 (J)					
11/11/2016	<0.002							
11/14/2016			<0.002					
11/15/2016							<0.002	
1/20/2017	0.0014 (J)							
1/24/2017			<0.002					
1/25/2017					<0.002			
1/26/2017							<0.002	
3/16/2017	<0.002							
3/17/2017			<0.002					
3/23/2017					<0.002			
3/24/2017							<0.002	
4/28/2017	<0.002							
5/1/2017			<0.002					
5/2/2017					<0.002		<0.002	
7/19/2017					<0.002			

# Prediction Limit

Constituent: Antimony Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32
8/3/2017	<0.002						<0.002	
8/4/2017			<0.002		<0.002			
1/19/2018	<0.002							
1/23/2018					<0.002		<0.002	
1/24/2018			<0.002					
6/21/2018			<0.002					
6/26/2018							<0.002	
6/27/2018	<0.002				<0.002			
1/24/2019		<0.002						
1/30/2019				0.0004 (J)				0.00039 (J)
1/31/2019						0.00042 (J)		
6/26/2019		<0.002				<0.002		
6/27/2019				<0.002				<0.002

# Prediction Limit

Constituent: Antimony, Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-5	GWC-5	GWC-6	GWC-6	GWA-1	GWA-1
8/31/2011			<0.002		<0.002			
9/16/2011	<0.002						<0.0013	
10/27/2011			<0.002				<0.0013	
10/30/2011	<0.002				<0.002			
12/5/2011			<0.002		<0.002			
12/13/2011	<0.002						<0.0013	
1/25/2012			<0.002		<0.002			
1/31/2012							<0.0013	
2/1/2012	<0.002							
7/17/2012	<0.002							
7/18/2012			<0.002				<0.0013	
7/24/2012					<0.002			
1/8/2013					<0.002			
1/9/2013			<0.002					
1/23/2013	<0.002							
1/24/2013							<0.0013	
7/9/2013					<0.002			
7/17/2013	<0.002		<0.002				<0.0013	
1/15/2014			<0.002		<0.002			
1/21/2014							<0.0013	
1/23/2014	<0.002							
6/25/2014			<0.002		<0.002		<0.0013	
1/13/2015			<0.002					
1/14/2015							<0.0013	
1/20/2015	<0.002				<0.002			
7/21/2015							<0.0013	
7/24/2015			<0.002		<0.002			
7/29/2015	<0.002							
1/20/2016			0.0024 (J)		<0.002			
1/21/2016							<0.0013	
1/25/2016	<0.002							
3/23/2016	<0.002						<0.0013	
3/28/2016			<0.002		<0.002			
5/20/2016							<0.0013	
5/23/2016			<0.002					
5/24/2016	<0.002				<0.002			
7/21/2016			<0.002		<0.002		<0.0013	
7/22/2016	<0.002							
9/15/2016			<0.002		<0.002		<0.0013	
9/16/2016	<0.002							
11/11/2016							<0.0013	
11/15/2016			<0.002					
11/16/2016					<0.002			
11/17/2016	<0.002							
1/19/2017							<0.0013	
1/25/2017	<0.002							
1/26/2017			<0.002		<0.002			
3/16/2017							<0.0013	
3/22/2017			<0.002		<0.002			
3/23/2017	<0.002							
4/28/2017							<0.0013	
5/1/2017	<0.002							

# Prediction Limit

Constituent: Antimony, Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-5	GWC-5	GWC-6	GWC-6	GWA-1	GWA-1
5/2/2017			<0.002		<0.002			
8/3/2017			<0.002		<0.002		<0.0013	
8/4/2017	<0.002							
1/19/2018							<0.0013	
1/23/2018	<0.002		<0.002		<0.002			
6/19/2018							<0.0013	
6/25/2018			<0.002		<0.002			
6/26/2018	<0.002							
1/17/2019								<0.0013
1/30/2019		0.00055 (J)		0.0004 (J)		0.00039 (J)		
6/24/2019								0.00054 (J)
6/26/2019		<0.002		<0.002		<0.002		



# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29	GWA-3	GWA-3
8/31/2011							<0.001	
9/16/2011			<0.001					
9/17/2011	<0.0013				<0.001			
10/27/2011	<0.0013							
10/28/2011			<0.001		<0.001			
12/12/2011			<0.001		<0.001			
12/14/2011	<0.0013							
1/25/2012			<0.001					
1/31/2012					<0.001			
2/7/2012	<0.0013							
7/16/2012			<0.001					
7/17/2012					<0.001			
7/23/2012	<0.0013							
1/23/2013	<0.0013							
1/24/2013			<0.001		<0.001			
7/23/2013			<0.001					
7/24/2013	<0.0013				<0.001			
1/22/2014	<0.0013		<0.001		<0.001			
6/25/2014							<0.001	
7/1/2014	<0.0013		<0.001					
7/8/2014					<0.001 (D)			
1/21/2015			<0.001		<0.001			
1/22/2015	<0.0013							
7/21/2015			<0.001				<0.001	
7/22/2015	<0.0013				<0.001			
1/19/2016					<0.001 (D)			
1/20/2016	<0.0013							
1/22/2016			<0.001					
3/22/2016			<0.001		<0.001			
3/23/2016	<0.0013							
3/31/2016							<0.001	
5/19/2016					<0.001			
5/23/2016			<0.001					
5/24/2016	<0.0013							
5/25/2016							<0.001	
7/21/2016					<0.001			
7/25/2016			<0.001					
7/26/2016	<0.0013							
7/27/2016							<0.001	
9/15/2016			<0.001					
9/16/2016	<0.0013							
11/9/2016			<0.001					
11/10/2016	<0.0013							
1/17/2017			<0.001		<0.001			
1/19/2017	<0.0013							
3/16/2017			<0.001					
3/17/2017	<0.0013							
4/27/2017			<0.001		0.00064 (J)			
4/28/2017	<0.0013							
7/18/2017					<0.001			
8/1/2017			<0.001		<0.001		<0.001	
8/2/2017	<0.0013							

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29	GWA-3	GWA-3
10/3/2017							<0.001	
1/19/2018	<0.0013		<0.001		<0.001			
6/19/2018	<0.0013		0.00078 (J)		0.00095 (J)			
6/20/2018							0.001 (J)	
1/17/2019		<0.0013						
1/18/2019						<0.001		<0.001
1/21/2019				<0.001				
6/24/2019		0.00043 (J)						
6/25/2019				<0.001		<0.001		<0.001

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
8/31/2011	<0.0013							
9/13/2011			<0.005		<0.001		<0.001	
10/27/2011	<0.0013							
10/28/2011			<0.005		<0.001		<0.001	
12/4/2011			<0.005		<0.001		<0.001	
12/14/2011	<0.0013							
1/24/2012					<0.001		<0.001	
2/1/2012	<0.0013							
2/9/2012			<0.005					
7/11/2012					<0.001		<0.001	
7/18/2012			<0.005					
7/23/2012	<0.0013							
1/8/2013			<0.005		<0.001		<0.001	
1/23/2013	<0.0013							
7/9/2013			<0.005					
7/10/2013					<0.001		<0.001	
7/17/2013	<0.0013							
1/15/2014	<0.0013		<0.005					
1/21/2014					<0.001		<0.001	
6/25/2014	<0.0013		<0.005					
7/1/2014					<0.001		<0.001	
1/14/2015	<0.0013							
1/21/2015			<0.005		<0.001		<0.001	
7/21/2015	<0.0013							
7/28/2015			<0.005		<0.001		<0.001	
1/20/2016	<0.0013							
1/26/2016			<0.005		<0.001			
1/27/2016							<0.001	
3/23/2016	<0.0013							
3/29/2016			0.00165 (J)		<0.001		<0.001	
5/19/2016	<0.0013							
5/25/2016			0.00191 (J)		<0.001		<0.001	
7/21/2016	0.00062 (J)							
7/22/2016					0.00047 (J)			
7/25/2016			0.0016					
7/26/2016							<0.001	
9/14/2016	<0.0013							
9/15/2016					<0.001		<0.001	
9/19/2016			0.0021					
11/10/2016	<0.0013							
11/16/2016			0.0012 (J)		<0.001			
11/17/2016							<0.001	
1/17/2017	<0.0013							
1/31/2017			0.001 (J)		<0.001		<0.001	
3/16/2017	<0.0013							
3/23/2017			0.00076 (J)		<0.001		0.00067 (J)	
4/27/2017	<0.0013							
5/2/2017			0.0012 (J)					
5/3/2017					0.0024		<0.001	
8/2/2017	<0.0013							
8/4/2017							<0.001	
8/7/2017			0.0018		<0.001			

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
1/22/2018	0.00068 (J)							
1/24/2018			0.0011 (J)		<0.001			
1/25/2018							<0.001	
6/19/2018	0.0011 (J)							
6/20/2018			0.002				0.0012 (J)	
6/26/2018					<0.001			
1/17/2019		<0.0013						
1/22/2019								<0.001
1/24/2019				0.00065 (J)				
1/25/2019						<0.001		
6/24/2019		0.00032 (J)						
6/25/2019								<0.001
6/26/2019				0.0015		<0.001		

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14	GWC-16	GWC-16	GWC-18	GWC-18	GWC-19	GWC-19
8/30/2011			<0.001		<0.001		<0.001	
9/13/2011	<0.0013							
10/26/2011			<0.001		<0.001		<0.001	
10/27/2011	<0.0013							
12/3/2011	<0.0013		<0.001		<0.001		<0.001	
1/24/2012	<0.0013							
1/25/2012			<0.001					
2/8/2012							<0.001	
2/9/2012					<0.001			
7/11/2012	<0.0013		<0.001		<0.001		<0.001	
1/8/2013	<0.0013		<0.001		<0.001		<0.001	
7/2/2013			<0.001					
7/10/2013	<0.0013							
7/16/2013					<0.001		<0.001	
1/14/2014			<0.001		<0.001			
1/21/2014	<0.0013						<0.001	
6/24/2014					<0.001		<0.001	
6/25/2014			<0.001					
7/1/2014	<0.0013							
1/13/2015			<0.001		<0.001		<0.001	
1/14/2015	<0.0013							
7/22/2015	<0.0013		<0.001					
7/23/2015					<0.001		<0.001	
1/27/2016	<0.0013		<0.001		<0.001		<0.001	
3/30/2016	<0.0013		<0.001		<0.001		<0.001	
5/25/2016	<0.0013		<0.001					
5/26/2016					<0.001		<0.001	
7/25/2016					0.00056 (J)		<0.001	
7/26/2016	0.00096 (J)							
7/27/2016			<0.001					
9/15/2016	<0.0013							
9/16/2016			<0.001					
9/19/2016					<0.001		<0.001	
11/17/2016	<0.0013		<0.001		<0.001		<0.001	
2/1/2017	<0.0013		<0.001		<0.001			
2/2/2017							<0.001	
3/23/2017	<0.0013							
3/24/2017			<0.001		<0.001		<0.001	
5/3/2017	<0.0013		<0.001		<0.001		<0.001	
8/7/2017	<0.0013		<0.001		<0.001		<0.001	
1/25/2018	<0.0013		<0.001		<0.001		<0.001	
6/20/2018	<0.0013		0.00084 (J)					
6/21/2018					0.001 (J)		0.0013	
1/22/2019		0.00041 (J)						
1/25/2019				<0.001				
1/28/2019						<0.001		<0.001
6/25/2019		0.00048 (J)		<0.001				
6/26/2019								<0.001
6/27/2019						<0.001		

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24
8/31/2011	<0.001							
9/15/2011			<0.001					
9/16/2011					<0.001			
10/27/2011	<0.001							
10/29/2011			<0.001		<0.001			
12/4/2011	<0.001							
12/13/2011			<0.001		<0.001			
1/25/2012			<0.001					
1/31/2012					<0.001			
2/8/2012	<0.001							
7/11/2012	<0.001							
7/18/2012			<0.001		<0.001			
1/8/2013	<0.001							
1/22/2013			<0.001		<0.001			
7/16/2013	<0.001		<0.001					
7/23/2013					<0.001			
1/21/2014	<0.001		<0.001					
1/22/2014					<0.001			
6/24/2014	<0.001							
6/25/2014			<0.001					
7/1/2014					<0.001			
7/8/2014							<0.001	
1/13/2015	<0.001							
1/14/2015			<0.001					
1/22/2015					<0.001			
7/23/2015	<0.001		<0.001					
7/29/2015					<0.001			
7/31/2015							<0.001	
1/20/2016							<0.001	
1/21/2016					<0.001			
1/26/2016			<0.001					
1/27/2016	<0.001							
3/29/2016					<0.001			
3/30/2016	<0.001						<0.001	
3/31/2016			<0.001					
5/25/2016					<0.001		<0.001	
5/26/2016	<0.001		<0.001					
7/25/2016	<0.001							
7/26/2016			<0.001					
7/27/2016					<0.001		<0.001	
9/16/2016							<0.001	
9/20/2016	<0.001		<0.001		<0.001			
11/17/2016	<0.001		<0.001					
11/18/2016					<0.001		0.00055 (J)	
2/2/2017	<0.001							
2/3/2017			<0.001		<0.001		<0.001	
3/28/2017	<0.001		<0.001		<0.001			
3/29/2017							<0.001	
5/3/2017			<0.001					
5/4/2017	<0.001				<0.001		<0.001	
8/7/2017	<0.001							
8/8/2017			<0.001		<0.001		<0.001	

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24
1/25/2018			<0.001		<0.001		<0.001	
1/26/2018	<0.001							
6/20/2018			0.00073 (J)		0.00086 (J)			
6/21/2018	0.00049 (J)							
6/27/2018							<0.001	
1/24/2019				<0.001				
1/25/2019						<0.001		
1/28/2019		<0.001						
1/31/2019								<0.001
6/25/2019		<0.001		<0.001				
6/26/2019						<0.001		<0.001

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25	GWC-26	GWC-26	GWC-31	GWC-31	GWC-32	GWC-32
9/15/2011							<0.001	
9/17/2011	<0.001		<0.001		<0.001			
10/29/2011			<0.001					
10/31/2011	<0.001				<0.001		<0.001	
12/13/2011							<0.001	
12/14/2011	<0.001		<0.001					
2/1/2012							<0.001	
2/7/2012	<0.001		<0.001		<0.001			
7/17/2012	<0.001		<0.001				<0.001	
1/23/2013					<0.001		<0.001	
1/24/2013			<0.001					
7/24/2013	<0.001		<0.001				<0.001	
1/23/2014	<0.001		<0.001		<0.001		<0.001	
7/1/2014					<0.001		<0.001	
7/8/2014	<0.001		<0.001					
1/20/2015							<0.001	
1/21/2015	<0.001		<0.001		<0.001			
7/30/2015	<0.001						<0.001	
7/31/2015			<0.001					
1/21/2016	<0.001							
1/25/2016			<0.001		<0.001		<0.001	
3/23/2016							<0.001	
3/24/2016			<0.001					
3/28/2016	<0.001							
3/30/2016					<0.001			
5/24/2016							<0.001	
5/25/2016	<0.001		<0.001		<0.001			
7/22/2016							<0.001	
7/26/2016			<0.001					
7/27/2016	<0.001				0.00055 (J)			
9/16/2016							<0.001	
9/19/2016	<0.001		<0.001					
11/14/2016			<0.001					
11/15/2016	<0.001						<0.001	
1/19/2017			<0.001					
1/24/2017	0.00061 (J)							
1/25/2017					<0.001			
1/26/2017							<0.001	
3/16/2017			<0.001					
3/23/2017	<0.001				<0.001			
3/24/2017							<0.001	
5/1/2017			<0.001					
5/2/2017	0.00085 (J)				<0.001		<0.001	
7/19/2017					0.00055 (J)			
8/3/2017	<0.001		<0.001				<0.001	
8/4/2017					<0.001			
1/22/2018			0.00054 (J)					
1/23/2018					0.0012 (J)		0.00078 (J)	
1/25/2018	<0.001							
6/26/2018							<0.001	
6/27/2018	<0.001		<0.001		<0.001			
1/24/2019		<0.001		<0.001				





# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5
8/31/2011							<0.001	
9/16/2011	<0.001		<0.001		<0.001			
10/27/2011							<0.001	
10/30/2011	<0.001							
10/31/2011			<0.001		<0.001			
12/5/2011							<0.001	
12/12/2011			<0.001		<0.001			
12/13/2011	<0.001							
1/25/2012							<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	
1/9/2013							<0.001	
1/22/2013			<0.001		<0.001			
1/23/2013	<0.001							
7/2/2013					<0.001			
7/17/2013	<0.001		<0.001				<0.001	
1/15/2014							<0.001	
1/21/2014					<0.001			
1/23/2014	<0.001		<0.001					
6/25/2014			<0.001		<0.001		<0.001	
1/13/2015							<0.001	
1/14/2015			<0.001		<0.001			
1/20/2015	<0.001							
7/24/2015							<0.001	
7/28/2015					<0.001			
7/29/2015	<0.001		<0.001					
1/20/2016							<0.001	
1/21/2016			<0.001		<0.001			
1/25/2016	<0.001							
3/23/2016	<0.001							
3/24/2016			<0.001		<0.001			
3/28/2016							<0.001	
5/23/2016			<0.001		<0.001		<0.001	
5/24/2016	<0.001							
7/21/2016			<0.001		<0.001		<0.001	
7/22/2016	<0.001							
9/15/2016			<0.001		<0.001		<0.001	
9/16/2016	<0.001							
11/15/2016			<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	
3/22/2017			<0.001		<0.001		<0.001	
3/23/2017	<0.001							
5/1/2017	<0.001		<0.001					
5/2/2017					<0.001		<0.001	
8/3/2017			<0.001		<0.001		<0.001	
8/4/2017	<0.001							
1/23/2018	0.0013		0.0012 (J)		0.001 (J)		0.0014	
6/19/2018					<0.001			

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5
6/20/2018			0.001 (J)					
6/25/2018							<0.001	
6/26/2018	<0.001							
1/21/2019						<0.001		
1/28/2019				<0.001				
1/30/2019		<0.001						<0.001
6/26/2019		<0.001		<0.001		<0.001		<0.001

# Prediction Limit

Constituent: Arsenic Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9
8/31/2011	<0.001							
9/7/2011			<0.0013		<0.0013		<0.0013	
10/30/2011	<0.001		<0.0013		<0.0013		<0.0013	
12/4/2011							<0.0013	
12/5/2011	<0.001		<0.0013		<0.0013			
1/19/2012					<0.0013		<0.0013	
1/25/2012	<0.001		<0.0013					
7/18/2012			<0.0013		<0.0013		<0.0013	
7/24/2012	<0.001							
1/7/2013			<0.0013		<0.0013			
1/8/2013	<0.001						<0.0013	
7/9/2013	<0.001		<0.0013		<0.0013		<0.0013	
1/14/2014			<0.0013		<0.0013		<0.0013	
1/15/2014	<0.001							
6/24/2014			<0.0013		<0.0013		<0.0013	
6/25/2014	<0.001							
1/20/2015	<0.001		<0.0013		<0.0013		<0.0013	
7/24/2015	<0.001							
7/27/2015			<0.0013		<0.0013		<0.0013	
1/20/2016	<0.001							
1/26/2016			<0.0013		<0.0013		<0.0013	
3/28/2016	<0.001							
3/29/2016			<0.0013		<0.0013		<0.0013	
5/24/2016	<0.001		<0.0013		<0.0013		<0.0013	
7/21/2016	<0.001							
7/22/2016			0.00049 (J)					
7/25/2016							0.00046 (J)	
7/26/2016					<0.0013			
9/15/2016	<0.001		<0.0013					
9/19/2016					<0.0013		<0.0013	
11/16/2016	<0.001		<0.0013		<0.0013		<0.0013	
1/26/2017	<0.001		<0.0013		<0.0013			
1/31/2017							0.0011 (J)	
3/22/2017	<0.001		<0.0013					
3/23/2017					<0.0013		0.00076 (J)	
5/2/2017	<0.001		<0.0013				<0.0013	
5/3/2017					<0.0013			
8/3/2017	<0.001							
8/4/2017			<0.0013					
8/7/2017					<0.0013		0.00052 (J)	
1/23/2018	0.00075 (J)		0.0012 (J)					
1/24/2018					<0.0013		<0.0013	
6/21/2018					0.00052 (J)		0.00095 (J)	
6/25/2018	<0.001		<0.0013					
1/21/2019				<0.0013				
1/22/2019						<0.0013		0.00059 (J)
1/30/2019		<0.001						
6/25/2019				0.00035 (J)		0.00045 (J)		0.00086 (J)
6/26/2019		<0.001						

# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29
9/16/2011	0.013				0.0022			
9/17/2011			0.011				0.0016	
10/27/2011	0.012		0.013					
10/28/2011					0.0016		0.0015	
12/12/2011					0.0018		0.0013	
12/13/2011	0.012							
12/14/2011			0.01					
1/25/2012					<0.01			
1/31/2012	0.011						<0.01	
2/7/2012			0.014					
7/16/2012					0.0011			
7/17/2012							0.0016	
7/18/2012	0.012							
7/23/2012			0.014					
1/23/2013			0.02					
1/24/2013	0.012				<0.01		0.0013	
7/17/2013	0.0097							
7/23/2013					<0.01			
7/24/2013			0.016				0.0022	
1/21/2014	0.0096							
1/22/2014			0.017		0.0013		0.0012 (J)	
6/25/2014	0.0094							
7/1/2014			0.015		0.0012 (J)			
7/8/2014							0.0013 (D)	
1/14/2015	0.0095							
1/21/2015					0.00042 (J)		0.0015	
1/22/2015			0.019					
7/21/2015	0.0099				0.00055 (J)			
7/22/2015			0.014				0.0014	
1/19/2016							0.00092 (JD)	
1/20/2016			0.016					
1/21/2016	0.011							
1/22/2016					0.00037 (J)			
3/22/2016					<0.01		<0.01	
3/23/2016	0.00968 (J)		0.00773 (J)					
5/19/2016							0.00265 (J)	
5/20/2016	0.0096 (J)							
5/23/2016					<0.01			
5/24/2016			0.00761 (J)					
7/21/2016	0.0087						0.0038	
7/25/2016					0.001 (J)			
7/26/2016			0.0078					
9/15/2016	0.0086				0.00092 (J)			
9/16/2016			0.017					
11/9/2016					0.0016 (J)			
11/10/2016			0.016					
11/11/2016	0.0095							
1/17/2017					<0.01		0.0011 (J)	
1/19/2017	0.0087		0.02					
3/16/2017	0.01				0.00055 (J)			
3/17/2017			0.016					
4/27/2017					<0.01		0.00097 (J)	

# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29
4/28/2017	0.0091		0.016					
7/18/2017							0.0016 (J)	
8/1/2017					0.00059 (J)		0.0011 (J)	
8/2/2017			0.014					
8/3/2017	0.0099							
1/19/2018	0.0089		0.014		<0.01		0.00076 (J)	
6/19/2018	0.012		0.015		<0.01		0.00078 (J)	
1/17/2019		0.01		0.01				
1/18/2019								0.0007 (J)
1/21/2019						0.00088		
6/24/2019		0.0096 (J)		0.011				
6/25/2019						<0.01		<0.01

# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11
8/31/2011	0.1		0.092					
9/13/2011							0.2	
10/27/2011			0.061					
10/28/2011							0.27	
12/4/2011							0.22	
12/14/2011			0.1					
2/1/2012			0.087					
2/9/2012							0.19	
7/18/2012							0.36	
7/23/2012			0.13					
1/8/2013							0.2	
1/23/2013			0.11					
7/9/2013							0.26	
7/17/2013			0.087					
1/15/2014			0.081				0.21	
6/25/2014	0.048		0.081				0.44	
1/14/2015			0.13					
1/21/2015							0.31	
7/21/2015	0.036		0.11					
7/28/2015							0.38	
1/20/2016			0.086					
1/25/2016					0.014			
1/26/2016							0.15	
3/23/2016			0.112					
3/29/2016							0.372	
3/30/2016					0.0127			
3/31/2016	0.027							
5/19/2016			0.11					
5/25/2016	0.027				0.014		0.396	
7/21/2016			0.14					
7/25/2016							0.25	
7/27/2016	0.029				0.03			
9/14/2016			0.15					
9/16/2016					0.017			
9/19/2016							0.33	
11/10/2016			0.17					
11/16/2016							0.29	
11/17/2016					0.028			
1/17/2017			0.18					
1/31/2017							0.19	
2/1/2017					0.023			
3/16/2017			0.15					
3/23/2017							0.24	
3/24/2017					0.012			
4/27/2017			0.13					
5/2/2017							0.34	
5/3/2017					0.024			
8/1/2017	0.03							
8/2/2017			0.15					
8/7/2017							0.4	
8/8/2017					0.014			
10/3/2017	0.038							

# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11
1/22/2018			0.15					
1/24/2018							0.27	
1/25/2018					0.025			
6/19/2018			0.13					
6/20/2018	0.029						0.31	
6/21/2018					0.023			
1/17/2019				0.12				
1/18/2019		0.033						
1/24/2019								0.09
1/31/2019						0.025		
6/24/2019				0.12				
6/25/2019		0.082						
6/26/2019						0.02		0.26



# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15
9/13/2011	0.013		0.0043		0.01			
9/16/2011							0.0061	
10/27/2011					0.019		0.0068	
10/28/2011	0.0092		0.0041					
12/3/2011					0.011		0.0067	
12/4/2011	0.0089		0.0037					
1/24/2012	0.0099		0.0042		0.015			
2/9/2012							0.0066	
7/11/2012	0.0099		0.0038		0.01		0.0064	
1/8/2013	0.012		0.0034		0.013		0.0075	
7/2/2013							0.011	
7/10/2013	0.014		0.0035		0.014			
1/21/2014	0.014		0.0037		<0.0013		0.012	
6/24/2014							0.0094	
7/1/2014	0.014		0.0035		0.014			
1/14/2015					0.033		0.01	
1/21/2015	0.016		0.0031					
7/22/2015					0.072		0.0084	
7/28/2015	0.013		0.0039					
1/26/2016	0.014							
1/27/2016			0.0026		0.083		0.012	
3/29/2016	0.0179		0.00337 (J)					
3/30/2016					0.0943		0.0136	
5/25/2016	0.0173		0.0028 (J)		0.117		0.00957 (J)	
7/22/2016	0.017							
7/26/2016			0.0023 (J)		0.11		0.0068	
9/15/2016	0.017		0.0026		0.16			
9/20/2016							0.007	
11/16/2016	0.018							
11/17/2016			0.0027		0.27		0.0072	
1/31/2017	0.022		0.0029					
2/1/2017					0.088		0.009	
3/23/2017	0.019		0.0032		0.11		0.011	
5/3/2017	0.02		0.0028		0.1		0.0092	
8/4/2017			0.0032				0.01	
8/7/2017	0.021				0.23			
1/24/2018	0.022							
1/25/2018			0.0037		0.1		0.01	
6/20/2018			0.0035		0.25		0.011	
6/26/2018	0.021							
1/22/2019				0.0029		0.15		0.012
1/25/2019		0.024						
6/25/2019				0.0069 (J)		0.16		0.0096 (J)
6/26/2019		0.02						

# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19
8/30/2011	0.018		0.021		0.033		0.037	
10/26/2011	0.017		0.014		0.028		0.037	
12/3/2011	0.018		0.015		0.03		0.037	
1/25/2012	0.017		0.014					
2/8/2012							0.048	
2/9/2012					0.029			
7/11/2012	0.017		0.015		0.03		0.035	
1/8/2013	0.019		0.017		0.036		0.059	
7/2/2013	0.017							
7/16/2013			0.013		0.034		0.069	
1/14/2014	0.017		0.015		0.037			
1/21/2014							0.075	
6/24/2014					0.032			
6/25/2014	0.017		0.016					
1/13/2015	0.017				0.034		0.076	
1/14/2015			0.017					
7/22/2015	0.017							
7/23/2015					0.03		0.05	
7/28/2015			0.016					
1/27/2016	0.016		0.016		0.032		0.092	
3/30/2016	0.0174		0.0178		0.0349		0.0986	
5/25/2016	0.0173		0.0169					
5/26/2016					0.0323		0.0687	
7/25/2016					0.031		0.047	
7/27/2016	0.016		0.016					
9/16/2016	0.016							
9/19/2016			0.016		0.028		0.039	
11/17/2016	0.017		0.017		0.033		0.046	
2/1/2017	0.018		0.017		0.037			
2/2/2017							0.085	
3/24/2017	0.017		0.016		0.037		0.079	
5/3/2017	0.017		0.016		0.034		0.1	
8/7/2017	0.017		0.017		0.035		0.06	
1/25/2018	0.016		0.015		0.033		0.094	
6/20/2018	0.017							
6/21/2018					0.033		0.09	
6/26/2018			0.017					
1/24/2019				0.016				
1/25/2019		0.019						
1/28/2019						0.037		0.12
6/25/2019		0.018		0.017				
6/26/2019								0.077
6/27/2019						0.035		

# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22	GWC-23	GWC-23
8/31/2011	0.038		0.015					
9/15/2011					0.025			
9/16/2011							0.011	
10/27/2011	0.034		0.01					
10/29/2011					0.024		0.0075	
12/4/2011	0.033		0.011					
12/13/2011					0.027		0.011	
1/25/2012					0.029			
1/31/2012							0.009	
2/8/2012	0.037		0.013					
7/11/2012	0.035							
7/17/2012			0.013					
7/18/2012					0.027		0.0076	
1/8/2013	0.034							
1/9/2013			0.013					
1/22/2013					0.029		0.0078	
7/16/2013	0.034		0.023		0.025			
7/23/2013							0.0075	
1/21/2014	0.035		0.026		0.027			
1/22/2014							0.004	
6/24/2014	0.034		0.027					
6/25/2014					0.025			
7/1/2014							0.0066	
1/13/2015	0.031		0.024					
1/14/2015					0.025			
1/22/2015							0.0067	
7/23/2015	0.036		0.024		0.025			
7/29/2015							0.0064	
1/21/2016							0.0055	
1/26/2016			0.026		0.023			
1/27/2016	0.03							
3/29/2016							0.0114	
3/30/2016	0.0344		0.0293					
3/31/2016					0.0249			
5/25/2016							0.00579 (J)	
5/26/2016	0.0336		0.0237		0.0235			
7/25/2016	0.03							
7/26/2016			0.016		0.021			
7/27/2016							0.0043	
9/20/2016	0.035		0.014		0.026		0.0056	
11/17/2016	0.034		0.012		0.025			
11/18/2016							0.0043	
2/2/2017	0.035		0.014					
2/3/2017					0.027		0.005	
3/28/2017	0.031		0.021		0.024		0.0041	
5/3/2017					0.025			
5/4/2017	0.035		0.02				0.0063	
8/7/2017	0.033		0.027					
8/8/2017					0.025		0.006	
1/25/2018					0.027		0.0048	
1/26/2018	0.038		0.032					
6/20/2018			0.033		0.026		0.0047	



# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27
9/17/2011			0.016		0.038		0.02	
10/29/2011					0.036		0.015	
10/31/2011			0.013					
12/14/2011			0.018		0.035		0.016	
1/25/2012							0.016	
2/7/2012			0.033		0.04			
7/17/2012			0.025		0.033		0.0057	
1/24/2013					0.034		0.0062	
7/24/2013			0.043		0.036		0.01	
1/23/2014			0.025		0.031		0.013	
7/8/2014	0.022		0.046		0.031		0.014	
1/21/2015			0.023		0.031		0.015	
7/30/2015			0.022				0.0092	
7/31/2015	0.02				0.017			
1/20/2016	0.026							
1/21/2016			0.028					
1/22/2016							0.0063	
1/25/2016					0.03			
3/23/2016							0.0107	
3/24/2016					0.0362			
3/28/2016			0.0383					
3/30/2016	0.00874 (J)							
5/24/2016							0.00672 (J)	
5/25/2016	0.00545 (J)		0.0439		0.0348			
7/26/2016					0.028		0.0085	
7/27/2016	0.0047		0.037					
9/16/2016	0.018							
9/19/2016			0.041		0.029		0.008	
11/11/2016							0.017	
11/14/2016					0.036			
11/15/2016			0.033					
11/18/2016	0.022							
1/19/2017					0.034			
1/20/2017							0.013	
1/24/2017			0.04					
2/3/2017	0.02							
3/16/2017					0.035		0.0096	
3/23/2017			0.032					
3/29/2017	0.02							
4/28/2017							0.0097	
5/1/2017					0.03			
5/2/2017			0.041					
5/4/2017	0.023							
8/3/2017			0.012		0.032		0.015	
8/8/2017	0.026							
1/19/2018							0.013	
1/22/2018					0.031			
1/25/2018	0.021		0.036					
6/27/2018	0.011		0.036		0.033		0.015	
1/24/2019				0.03		0.036		0.009
1/31/2019		0.011						
6/25/2019				0.032		0.038		

# Prediction Limit

Constituent: Barium    Analysis Run 8/9/2019 3:18 PM    View: State IntraWell PL  
Plant Wansley    Client: Southern Company    Data: Wansley Landfill

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6/26/2019	GWC-24	GWC-24 0.0093 (J)	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27 0.017
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# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
9/15/2011	0.0074				0.0043			
9/16/2011							0.0049	
9/17/2011			0.01					
10/28/2011	0.0074							
10/30/2011							0.0085	
10/31/2011			0.0068		0.0035			
12/13/2011	0.0075				0.0036		0.0073	
2/1/2012					0.0037		0.0077	
2/7/2012			0.0016					
2/8/2012	0.0075							
7/17/2012					0.0038		0.012	
7/18/2012	0.0068							
1/23/2013			0.0038		0.003		0.012	
1/24/2013	0.0083							
7/17/2013							0.012	
7/24/2013	0.006				0.0019			
1/23/2014	0.0051		0.0045		0.0012 (J)		0.0099	
7/1/2014	0.0061		0.0048		0.0014			
1/20/2015	0.0061				0.0012 (J)		0.011	
1/21/2015			0.0022					
7/29/2015							0.0095	
7/30/2015	0.0059				0.0011 (J)			
1/19/2016	0.0075							
1/25/2016			0.002		0.001 (J)		0.009	
3/23/2016	0.00731 (J)				<0.01		0.00902 (J)	
3/30/2016			0.00491 (J)					
5/20/2016	0.00703 (J)							
5/24/2016					<0.01		0.00573 (J)	
5/25/2016			0.00502 (J)					
7/21/2016	0.0067							
7/22/2016					0.0014 (J)		0.01	
7/27/2016			0.0033					
9/16/2016					0.0018 (J)		0.0061	
9/20/2016	0.007							
11/14/2016	0.007							
11/15/2016					0.0014 (J)			
11/17/2016							0.014	
1/24/2017	0.0075							
1/25/2017			0.0051				<0.0025	
1/26/2017					0.003			
3/17/2017	0.0071							
3/23/2017			0.0024 (J)				0.0096	
3/24/2017					0.0021 (J)			
5/1/2017	0.0057						0.0057	
5/2/2017			0.0026		0.0025			
7/19/2017			0.004					
8/3/2017					<0.01 (*)			
8/4/2017	0.0072		0.0033				0.0062	
1/23/2018			0.0025		0.0027		0.0047	
1/24/2018	0.0084							
6/21/2018	0.011							
6/26/2018					0.0014 (J)		0.0067	

# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
6/27/2018			0.0016 (J)					
1/30/2019						0.0017 (J)		0.021
1/31/2019				0.0016 (J)				
6/26/2019				<0.01				0.0057 (J)
6/27/2019		0.0071 (J)				<0.01		



# Prediction Limit

Constituent: Barium Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6
8/31/2011					0.024		0.064	
9/16/2011	0.01		0.019					
10/27/2011					0.026			
10/30/2011							0.06	
10/31/2011	0.0089		0.018					
12/5/2011					0.024		0.061	
12/12/2011	0.011		0.02					
1/25/2012					0.028		0.064	
2/1/2012	0.011		0.02					
7/16/2012	0.011		0.02					
7/18/2012					0.026			
7/24/2012							0.054	
1/8/2013							0.063	
1/9/2013					0.029			
1/22/2013	0.011		0.021					
7/2/2013			0.019					
7/9/2013							0.051	
7/17/2013	0.011				0.022			
1/15/2014					0.023		0.06	
1/21/2014			0.02					
1/23/2014	0.0097							
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							0.048	
7/24/2015					0.018		0.051	
7/28/2015			0.019					
7/29/2015	0.011							
1/20/2016					0.027		0.051	
1/21/2016	0.012		0.021					
3/24/2016	0.0132		0.0206					
3/28/2016					0.0207		0.0506	
5/23/2016	0.0119		0.0221		0.0191			
5/24/2016							0.052	
7/21/2016	0.011		0.019		0.018		0.049	
9/15/2016	0.012		0.02		0.037		0.062	
11/15/2016	0.011		0.02		0.024			
11/16/2016							0.062	
1/25/2017	0.011							
1/26/2017			0.021		0.025		0.062	
3/22/2017	0.01		0.019		0.02		0.048	
5/1/2017	0.012							
5/2/2017			0.02		0.02		0.043	
8/3/2017			0.02		0.025		0.049	
1/23/2018	0.011		0.019		0.027		0.05	
6/19/2018			0.02					
6/20/2018	0.012							
6/25/2018					0.02		0.053	
1/21/2019				0.022				
1/28/2019		0.013						
1/30/2019						0.016		0.054
6/26/2019		0.011		0.021		0.02		0.045

# Prediction Limit

Constituent: Barium, Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1
9/7/2011	0.06		0.088		0.13			
9/16/2011							<0.0025	
10/27/2011							<0.0025	
10/30/2011	0.053		0.092		0.02			
12/4/2011					0.11			
12/5/2011	0.059		0.11					
12/13/2011							<0.0025	
1/19/2012			0.084		0.15			
1/25/2012	0.068							
1/31/2012							<0.0025	
7/18/2012	0.098		0.11		0.11		<0.0025	
1/7/2013	0.13		0.095					
1/8/2013					0.14			
1/24/2013							<0.0025	
7/9/2013	0.13		0.085		0.13			
7/17/2013							<0.0025	
1/14/2014	0.14		0.066		0.099			
1/21/2014							<0.0025	
6/24/2014	0.13		0.078		0.2			
6/25/2014							<0.0025	
1/14/2015							<0.0025	
1/20/2015	0.13		0.053		0.12			
7/21/2015							<0.0025	
7/27/2015	0.11		0.055		0.17			
1/21/2016							7.5E-05 (J)	
1/26/2016	0.11		0.044		0.088			
3/23/2016							<0.0025	
3/29/2016	0.109		0.05		0.11			
5/20/2016							<0.0025	
5/24/2016	0.0996		0.051		0.17			
7/21/2016							<0.0025	
7/22/2016	0.089							
7/25/2016					0.17			
7/26/2016			0.044					
9/15/2016	0.097						<0.0025	
9/19/2016			0.043		0.18			
11/11/2016							<0.0025	
11/16/2016	0.11		0.053		0.18			
1/19/2017							<0.0025	
1/26/2017	0.097		0.043					
1/31/2017					0.1			
3/16/2017							<0.0025	
3/22/2017	0.083							
3/23/2017			0.053		0.12			
4/28/2017							<0.0025	
5/2/2017	0.088				0.11			
5/3/2017			0.047					
8/3/2017							<0.0025	
8/4/2017	0.088							
8/7/2017			0.048		0.17			
1/19/2018							<0.0025	
1/23/2018	0.094							

# Prediction Limit

Constituent: Barium, Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1
1/24/2018			0.038		0.14			
6/19/2018							<0.0025	
6/21/2018			0.058		0.16			
6/25/2018	0.078							
1/17/2019								7.4E-05 (J)
1/21/2019		0.083						
1/22/2019				0.04		0.11		
6/24/2019								0.00029 (J)
6/25/2019		0.075		0.06		0.18		

# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29	GWC-11	GWC-11
9/13/2011							<0.001	
9/16/2011			<0.0025					
9/17/2011	<0.0025				<0.0013			
10/27/2011	<0.0025							
10/28/2011			<0.0025		<0.0013		<0.001	
12/4/2011							<0.001	
12/12/2011			<0.0025		0.0015			
12/14/2011	<0.0025							
1/25/2012			<0.0025					
1/31/2012					0.0016			
2/7/2012	<0.0025							
2/9/2012							<0.001	
7/16/2012			<0.0025					
7/17/2012					0.002			
7/18/2012							<0.001	
7/23/2012	<0.0025							
1/8/2013							<0.001	
1/23/2013	<0.0025							
1/24/2013			<0.0025		0.0025			
7/9/2013							<0.001	
7/23/2013			<0.0025					
7/24/2013	<0.0025				0.0027			
1/15/2014							<0.001	
1/22/2014	<0.0025		0.00034 (J)		0.002			
6/25/2014							8.3E-05 (J)	
7/1/2014	<0.0025		0.00039 (J)					
7/8/2014					0.0024 (D)			
1/21/2015			0.0005 (J)		0.0026		<0.001	
1/22/2015	0.00011 (J)							
7/21/2015			0.00042 (J)					
7/22/2015	<0.0025				0.0024			
7/28/2015							<0.001	
1/19/2016					0.0024 (D)			
1/20/2016	0.00012 (J)							
1/22/2016			0.00044 (J)					
1/26/2016							<0.001	
3/22/2016			<0.0025		0.00194 (J)			
3/23/2016	<0.0025							
3/29/2016							<0.001	
5/19/2016					0.00188 (J)			
5/23/2016			<0.0025					
5/24/2016	<0.0025							
5/25/2016							<0.001	
7/21/2016					0.0021 (J)			
7/25/2016			0.00037 (J)				<0.001	
7/26/2016	<0.0025							
9/15/2016			0.00039 (J)					
9/16/2016	<0.0025							
9/19/2016							<0.001	
11/9/2016			0.00041 (J)					
11/10/2016	<0.0025							
11/16/2016							<0.001	



# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14	GWC-16	GWC-16	GWC-19	GWC-19	GWC-21	GWC-21
8/30/2011			<0.001		<0.001			
8/31/2011							<0.001	
9/13/2011	<0.0025							
10/26/2011			<0.001		<0.001			
10/27/2011	<0.0025						<0.001	
12/3/2011	<0.0025		<0.001		<0.001			
12/4/2011							<0.001	
1/24/2012	<0.0025							
1/25/2012			<0.001					
2/8/2012					<0.001		<0.001	
7/11/2012	<0.0025		<0.001		<0.001			
7/17/2012							<0.001	
1/8/2013	<0.0025		<0.001		<0.001			
1/9/2013							<0.001	
7/2/2013			<0.001					
7/10/2013	<0.0025							
7/16/2013					<0.001		<0.001	
1/14/2014			<0.001					
1/21/2014	0.00012 (J)				<0.001		<0.001	
6/24/2014					<0.001		<0.001	
6/25/2014			<0.001					
7/1/2014	<0.0025							
1/13/2015			<0.001		<0.001		<0.001	
1/14/2015	0.00015 (J)							
7/22/2015	0.00023 (J)		<0.001					
7/23/2015					<0.001		<0.001	
1/26/2016							<0.001	
1/27/2016	0.00011 (J)		<0.001		<0.001			
3/30/2016	<0.0025		<0.001		<0.001		<0.001	
5/25/2016	<0.0025		<0.001					
5/26/2016					<0.001		<0.001	
7/25/2016					<0.001			
7/26/2016	<0.0025						<0.001	
7/27/2016			<0.001					
9/15/2016	0.00044 (J)							
9/16/2016			<0.001					
9/19/2016					<0.001			
9/20/2016							<0.001	
11/17/2016	0.00055 (J)		<0.001		<0.001		<0.001	
2/1/2017	<0.0025		<0.001					
2/2/2017					<0.001		<0.001	
3/23/2017	<0.0025							
3/24/2017			<0.001		<0.001			
3/28/2017							<0.001	
5/3/2017	<0.0025		<0.001		<0.001			
5/4/2017							<0.001	
8/7/2017	0.00059 (J)		<0.001		<0.001		<0.001	
1/25/2018	<0.0025		<0.001		<0.001			
1/26/2018							<0.001	
6/20/2018	0.00064 (J)		<0.001				<0.001	
6/21/2018					<0.001			
1/22/2019		0.0004 (J)						

# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14	GWC-16	GWC-16	GWC-19	GWC-19	GWC-21	GWC-21
1/24/2019								7.9E-05 (J)
1/25/2019				7.2E-05 (J)				
1/28/2019						0.00011 (J)		
6/25/2019		0.00041 (J)		<0.001				<0.001
6/26/2019						<0.001		

# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26
9/16/2011	<0.001							
9/17/2011					<0.001		<0.001	
10/29/2011	<0.001						<0.001	
10/31/2011					<0.001			
12/13/2011	<0.001							
12/14/2011					<0.001		<0.001	
1/31/2012	<0.001							
2/7/2012					<0.001		<0.001	
7/17/2012					<0.001		<0.001	
7/18/2012	<0.001							
1/22/2013	<0.001							
1/24/2013							<0.001	
7/23/2013	<0.001							
7/24/2013					<0.001		<0.001	
1/22/2014	<0.001							
1/23/2014					<0.001		<0.001	
7/1/2014	<0.001							
7/8/2014			8.3E-05 (J)		<0.001		<0.001	
1/21/2015					<0.001		<0.001	
1/22/2015	<0.001							
7/29/2015	8E-05 (J)							
7/30/2015					<0.001			
7/31/2015			0.00012 (J)				<0.001	
1/20/2016			9.3E-05 (J)					
1/21/2016	<0.001				<0.001			
1/25/2016							<0.001	
3/24/2016							<0.001	
3/28/2016					<0.001			
3/29/2016	<0.001							
3/30/2016			<0.0025					
5/25/2016	<0.001		<0.0025		<0.001		<0.001	
7/26/2016							<0.001	
7/27/2016	<0.001		<0.0025		<0.001			
9/16/2016			<0.0025					
9/19/2016					<0.001		<0.001	
9/20/2016	<0.001							
11/14/2016							<0.001	
11/15/2016					<0.001			
11/18/2016	<0.001		<0.0025					
1/19/2017							<0.001	
1/24/2017					<0.001			
2/3/2017	<0.001		<0.0025					
3/16/2017							<0.001	
3/23/2017					<0.001			
3/28/2017	<0.001							
3/29/2017			<0.0025					
5/1/2017							<0.001	
5/2/2017					<0.001			
5/4/2017	<0.001		<0.0025					
8/3/2017					<0.001		<0.001	
8/8/2017	<0.001		<0.0025					
1/22/2018							<0.001	



# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26
1/25/2018	<0.001		<0.0025		<0.001			
6/20/2018	<0.001							
6/27/2018			<0.0025		<0.001		<0.001	
1/24/2019						6.7E-05 (J)		8.1E-05 (J)
1/25/2019		<0.001						
1/31/2019				<0.0025				
6/25/2019						<0.001		<0.001
6/26/2019		<0.001		0.00017 (J)				

# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32
9/15/2011			<0.001				<0.0013	
9/17/2011	0.0066				<0.003			
10/28/2011			<0.001					
10/29/2011	0.0055							
10/31/2011					<0.003		<0.0013	
12/13/2011			<0.001				<0.0013	
12/14/2011	0.0058							
1/25/2012	0.006							
2/1/2012							<0.0013	
2/7/2012					<0.003			
2/8/2012			<0.001					
7/17/2012	<0.003						<0.0013	
7/18/2012			<0.001					
1/23/2013					<0.003		<0.0013	
1/24/2013	<0.003		<0.001					
7/24/2013	0.0027		<0.001				<0.0013	
1/23/2014	0.0047		<0.001		0.00099 (J)		0.00068 (J)	
7/1/2014			<0.001		0.0011 (J)		0.00062 (J)	
7/8/2014	0.005							
1/20/2015			<0.001				0.00066 (J)	
1/21/2015	0.0053				0.00082 (J)			
7/30/2015	0.0013		<0.001				0.001 (J)	
1/19/2016			9E-05 (J)					
1/22/2016	0.00038 (J)							
1/25/2016					0.00061 (J)		0.00066 (J)	
3/23/2016	0.00229 (J)		<0.001				0.000735 (J)	
3/30/2016					<0.003			
5/20/2016			<0.001					
5/24/2016	<0.003						0.00134 (J)	
5/25/2016					<0.003			
7/21/2016			<0.001					
7/22/2016							0.0012 (J)	
7/26/2016	0.0015 (J)							
7/27/2016					0.00076 (J)			
9/16/2016							0.0015 (J)	
9/19/2016	0.0013 (J)							
9/20/2016			<0.001					
11/11/2016	0.0057							
11/14/2016			<0.001					
11/15/2016							0.0015 (J)	
1/20/2017	0.003							
1/24/2017			<0.001					
1/25/2017					0.00064 (J)			
1/26/2017							0.001 (J)	
3/16/2017	0.0018 (J)							
3/17/2017			<0.001					
3/23/2017					0.00067 (J)			
3/24/2017							0.0016 (J)	
4/28/2017	0.00075 (J)							
5/1/2017			<0.001					
5/2/2017					0.00077 (J)		0.0012 (J)	
7/19/2017					0.00083 (J)			

# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32
8/3/2017	0.005						0.0018 (J)	
8/4/2017			<0.001		0.0011 (J)			
1/19/2018	0.0057							
1/23/2018					0.001 (J)		0.0018 (J)	
1/24/2018			<0.001					
6/21/2018			<0.001					
6/26/2018							0.0015 (J)	
6/27/2018	0.005				0.00071 (J)			
1/24/2019		0.00039 (J)						
1/30/2019				<0.001				0.0016 (J)
1/31/2019						0.00057 (J)		
6/26/2019		0.0056				0.00084 (J)		
6/27/2019				<0.001				0.0017

# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35	GWC-6	GWC-6
8/31/2011							<0.001	
9/16/2011	<0.0025		<0.0025		<0.0025			
10/30/2011	<0.0025						<0.001	
10/31/2011			<0.0025		<0.0025			
12/5/2011							<0.001	
12/12/2011			<0.0025		<0.0025			
12/13/2011	<0.0025							
1/25/2012							<0.001	
2/1/2012	<0.0025		<0.0025		<0.0025			
7/16/2012			<0.0025		<0.0025			
7/17/2012	<0.0025							
7/24/2012							<0.001	
1/8/2013							<0.001	
1/22/2013			<0.0025		<0.0025			
1/23/2013	<0.0025							
7/2/2013					<0.0025			
7/9/2013							<0.001	
7/17/2013	<0.0025		<0.0025					
1/15/2014							<0.001	
1/21/2014					<0.0025			
1/23/2014	0.00054 (J)		<0.0025					
6/25/2014			<0.0025		<0.0025		<0.001	
1/14/2015			<0.0025		<0.0025			
1/20/2015	0.00091 (J)						<0.001	
7/24/2015							<0.001	
7/28/2015					8.5E-05 (J)			
7/29/2015	0.0011 (J)		0.00011 (J)					
1/20/2016							7.8E-05 (J)	
1/21/2016			0.00012 (J)		8.5E-05 (J)			
1/25/2016	0.00075 (J)							
3/23/2016	0.000892 (J)							
3/24/2016			<0.0025		<0.0025			
3/28/2016							<0.001	
5/23/2016			<0.0025		<0.0025			
5/24/2016	0.00065 (J)						<0.001	
7/21/2016			<0.0025		<0.0025		<0.001	
7/22/2016	0.0011 (J)							
9/15/2016			<0.0025		<0.0025		<0.001	
9/16/2016	0.001 (J)							
11/15/2016			<0.0025		<0.0025			
11/16/2016							<0.001	
11/17/2016	0.00046 (J)							
1/25/2017	<0.0025		<0.0025					
1/26/2017					<0.0025		<0.001	
3/22/2017			<0.0025		<0.0025		<0.001	
3/23/2017	0.00077 (J)							
5/1/2017	0.00062 (J)		<0.0025					
5/2/2017					<0.0025		<0.001	
8/3/2017			<0.0025		<0.0025		<0.001	
8/4/2017	0.00051 (J)							
1/23/2018	0.00034 (J)		<0.0025		<0.0025		<0.001	
6/19/2018					<0.0025			

# Prediction Limit

Constituent: Beryllium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35	GWC-6	GWC-6
6/20/2018			<0.0025					
6/25/2018							<0.001	
6/26/2018	<0.0025							
1/21/2019						<0.0025		
1/28/2019				6.1E-05 (J)				
1/30/2019		0.00036 (J)						<0.001
6/26/2019		0.00027 (J)		0.00032 (J)		0.00022 (J)		<0.001

# Prediction Limit

Constituent: Beryllium, Cadmium    Analysis Run 8/9/2019 3:18 PM    View: State Intrawell PL  
 Plant Wansley    Client: Southern Company    Data: Wansley Landfill

	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1	GWA-29	GWA-29
9/7/2011	<0.001		<0.001					
9/16/2011					<0.001			
9/17/2011							<0.001	
10/27/2011					<0.001			
10/28/2011							<0.001	
10/30/2011	<0.001		<0.001					
12/4/2011			<0.001					
12/5/2011	<0.001							
12/12/2011							<0.001	
12/13/2011					<0.001			
1/19/2012	<0.001		<0.001					
1/31/2012					<0.001		<0.001	
7/17/2012							<0.001	
7/18/2012	<0.001		<0.001		<0.001			
1/7/2013	<0.001							
1/8/2013			<0.001					
1/24/2013					<0.001		<0.001	
7/9/2013	<0.001		<0.001					
7/17/2013					<0.001			
7/24/2013							<0.001	
1/14/2014	<0.001		0.00012 (J)					
1/21/2014					<0.001			
1/22/2014							<0.001	
6/24/2014	<0.001		0.00014 (J)					
6/25/2014					<0.001			
7/8/2014							<0.001 (D)	
1/14/2015					<0.001			
1/20/2015	<0.001		0.00014 (J)					
1/21/2015							<0.001	
7/21/2015					<0.001			
7/22/2015							<0.001	
7/27/2015	<0.001		0.00012 (J)					
1/19/2016							<0.001 (D)	
1/21/2016					<0.001			
1/26/2016	<0.001		<0.001					
3/22/2016							<0.001	
3/23/2016					<0.001			
3/29/2016	<0.001		<0.001					
5/19/2016							0.000111 (J)	
5/20/2016					<0.001			
5/24/2016	<0.001		<0.001					
7/21/2016					<0.001		<0.001	
7/25/2016			<0.001					
7/26/2016	<0.001							
9/15/2016					<0.001			
9/19/2016	<0.001		<0.001					
11/11/2016					<0.001			
11/16/2016	<0.001		<0.001					
1/17/2017							<0.001	
1/19/2017					<0.001			
1/26/2017	<0.001							
1/31/2017			<0.001					

# Prediction Limit

Constituent: Beryllium, Cadmium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1	GWA-29	GWA-29
3/16/2017					<0.001			
3/23/2017	<0.001		<0.001					
4/27/2017							<0.001	
4/28/2017					<0.001			
5/2/2017			<0.001					
5/3/2017	<0.001							
7/18/2017							<0.001	
8/1/2017							<0.001	
8/3/2017					<0.001			
8/7/2017	<0.001		<0.001					
1/19/2018					<0.001		<0.001	
1/24/2018	<0.001		<0.001					
6/19/2018					0.0005 (J)		<0.001	
6/21/2018	<0.001		<0.001					
1/17/2019						<0.001		
1/18/2019								<0.001
1/22/2019		5.8E-05 (J)		7.9E-05 (J)				
6/24/2019						<0.001		
6/25/2019		<0.001		<0.001				<0.001

# Prediction Limit

Constituent: Cadmium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3	GWC-11	GWC-11	GWC-14	GWC-14	GWC-24	GWC-24
8/31/2011	<0.0025							
9/13/2011			<0.001		<0.0025			
10/27/2011					<0.0025			
10/28/2011			<0.001					
12/3/2011					<0.0025			
12/4/2011			<0.001					
1/24/2012					<0.0025			
2/9/2012			<0.001					
7/11/2012					<0.0025			
7/18/2012			<0.001					
1/8/2013			<0.001		<0.0025			
7/9/2013			<0.001					
7/10/2013					<0.0025			
1/15/2014			<0.001					
1/21/2014					<0.0025			
6/25/2014	<0.0025		<0.001					
7/1/2014					<0.0025			
7/8/2014							<0.001	
1/14/2015					<0.0025			
1/21/2015			0.0014					
7/21/2015	0.00042 (J)							
7/22/2015					0.00028 (J)			
7/28/2015			0.0022					
7/31/2015							<0.001	
1/20/2016							<0.001	
1/26/2016			<0.001					
1/27/2016					<0.0025			
3/29/2016			<0.001					
3/30/2016					0.000222 (J)		0.000124 (J)	
3/31/2016	0.000546 (J)							
5/25/2016	0.000137 (J)		<0.001		0.000327 (J)		<0.001	
7/25/2016			<0.001					
7/26/2016					<0.0025			
7/27/2016	<0.0025						<0.001	
9/15/2016					0.00053 (J)			
9/16/2016							<0.001	
9/19/2016			<0.001					
11/16/2016			<0.001					
11/17/2016					<0.0025			
11/18/2016							<0.001	
1/31/2017			<0.001					
2/1/2017					<0.0025			
2/3/2017							0.0021 (J)	
3/23/2017			<0.001		<0.0025			
3/29/2017							<0.001	
5/2/2017			<0.001					
5/3/2017					<0.0025			
5/4/2017							<0.001	
8/1/2017	<0.0025							
8/7/2017			<0.001		0.00051 (J)			
8/8/2017							<0.001	
10/3/2017	<0.0025							



# Prediction Limit

Constituent: Cadmium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3	GWC-11	GWC-11	GWC-14	GWC-14	GWC-24	GWC-24
1/24/2018			<0.001					
1/25/2018					<0.0025		<0.001	
6/20/2018	<0.0025		<0.001		0.00047 (J)			
6/27/2018							<0.001	
1/18/2019		<0.0025						
1/22/2019						0.00021 (J)		
1/24/2019				<0.001				
1/31/2019								<0.001
6/25/2019		0.00014 (J)				0.00021 (J)		
6/26/2019				<0.001				<0.001

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29
9/16/2011	0.0015				<0.0025			
9/17/2011			<0.0025				<0.0025	
10/27/2011	<0.0025		<0.0025					
10/28/2011					<0.0025		<0.0025	
12/12/2011					<0.0025		<0.0025	
12/13/2011	<0.0025							
12/14/2011			<0.0025					
1/25/2012					<0.0025			
1/31/2012	<0.0025						<0.0025	
2/7/2012			<0.0025					
7/16/2012					<0.0025			
7/17/2012							<0.0025	
7/18/2012	<0.0025							
7/23/2012			<0.0025					
1/23/2013			<0.0025					
1/24/2013	<0.0025				<0.0025		<0.0025	
7/17/2013	<0.0025							
7/23/2013					<0.0025			
7/24/2013			<0.0025				0.0013	
1/21/2014	<0.0025							
1/22/2014			<0.0025		0.002		<0.0025	
6/25/2014	<0.0025							
7/1/2014			<0.0025		<0.0025			
7/8/2014							<0.0025 (D)	
1/14/2015	<0.0025							
1/21/2015					<0.0025		<0.0025	
1/22/2015			<0.0025					
7/21/2015	<0.0025				<0.0025			
7/22/2015			<0.0025				<0.0025	
1/19/2016							<0.0025 (D)	
1/20/2016			<0.0025					
1/21/2016	<0.0025							
1/22/2016					<0.0025			
3/22/2016					<0.0025		<0.0025	
3/23/2016	<0.0025		<0.0025					
5/19/2016							0.00684 (J)	
5/20/2016	<0.0025							
5/23/2016					<0.0025			
5/24/2016			<0.0025					
7/21/2016	<0.0025						<0.0025	
7/25/2016					<0.0025			
7/26/2016			<0.0025					
9/15/2016	<0.0025				0.0082			
9/16/2016			0.0019 (J)					
11/9/2016					0.0044			
11/10/2016			<0.0025					
11/11/2016	<0.0025							
1/17/2017					<0.0025		<0.0025	
1/19/2017	<0.0025		<0.0025					
3/16/2017	<0.0025				<0.0025			
3/17/2017			<0.0025					
4/27/2017					<0.0025		<0.0025	

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29
4/28/2017	<0.0025		<0.0025					
7/18/2017							<0.0025	
8/1/2017					<0.0025		0.0015 (J)	
8/2/2017			<0.0025					
8/3/2017	<0.0025							
1/19/2018	<0.0025		<0.0025		<0.0025		<0.0025	
6/19/2018	<0.0025		0.0011 (J)		<0.0025		<0.0025	
1/17/2019		0.0012 (J)		0.0016 (J)				
1/18/2019								0.002 (J)
1/21/2019						0.0014 (J)		
6/24/2019		0.0042		0.0022				
6/25/2019						0.0024		0.003

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11
8/31/2011	<0.0025		0.0014					
9/13/2011							0.0031	
10/27/2011			<0.0025					
10/28/2011							0.0032	
12/4/2011							0.0031	
12/14/2011			<0.0025					
2/1/2012			<0.0025					
2/9/2012							<0.01	
7/18/2012							<0.01	
7/23/2012			0.0014					
1/8/2013							0.0013	
1/23/2013			<0.0025					
7/9/2013							<0.01	
7/17/2013			<0.0025					
1/15/2014			<0.0025				0.0013	
6/25/2014	<0.0025		<0.0025				0.002	
1/14/2015			<0.0025					
1/21/2015							0.0013	
7/21/2015	<0.0025		<0.0025					
7/28/2015							0.0017	
1/20/2016			<0.0025					
1/25/2016					<0.0025			
1/26/2016							0.0012 (J)	
3/23/2016			<0.0025					
3/29/2016							<0.01	
3/30/2016					<0.0025			
3/31/2016	<0.0025							
5/19/2016			<0.0025					
5/25/2016	<0.0025				<0.0025		0.00213 (J)	
7/21/2016			<0.0025					
7/25/2016							0.0015 (J)	
7/27/2016	<0.0025				0.0029			
9/14/2016			<0.0025					
9/16/2016					<0.0025			
9/19/2016							0.0022 (J)	
11/10/2016			<0.0025					
11/16/2016							0.002 (JB)	
11/17/2016					<0.0025			
1/17/2017			<0.0025					
1/31/2017							0.0022 (J)	
2/1/2017					<0.0025			
3/16/2017			<0.0025					
3/23/2017							0.002 (J)	
3/24/2017					<0.0025			
4/27/2017			<0.0025					
5/2/2017							0.0019 (J)	
5/3/2017					<0.0025			
8/1/2017	<0.0025							
8/2/2017			<0.0025					
8/7/2017							0.0023 (J)	
8/8/2017					<0.0025			
10/3/2017	0.0013 (J)							

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11
1/22/2018			<0.0025					
1/24/2018							0.0019 (J)	
1/25/2018					<0.0025			
6/19/2018			<0.0025					
6/20/2018	<0.0025						0.002 (J)	
6/21/2018					<0.0025			
1/17/2019				0.0013 (J)				
1/18/2019		0.0017 (J)						
1/24/2019								0.003
1/31/2019						0.0018 (J)		
6/24/2019				0.0022				
6/25/2019		0.0027						
6/26/2019						0.0021		0.0041

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15
9/13/2011	<0.0025		0.0019		<0.0025			
9/16/2011							<0.0025	
10/27/2011					<0.0025		<0.0025	
10/28/2011	<0.0025		<0.0025					
12/3/2011					<0.0025		<0.0025	
12/4/2011	<0.0025		<0.0025					
1/24/2012	<0.0025		<0.0025		<0.0025			
2/8/2012							<0.0025	
7/11/2012	<0.0025		<0.0025		<0.0025		<0.0025	
1/8/2013	<0.0025		<0.0025		<0.0025		<0.0025	
7/2/2013							<0.0025	
7/10/2013	<0.0025		<0.0025		<0.0025			
1/21/2014	<0.0025		<0.0025		<0.0025		<0.0025	
6/24/2014							<0.0025	
7/1/2014	<0.0025		<0.0025		<0.0025			
1/14/2015					<0.0025		<0.0025	
1/21/2015	<0.0025		<0.0025					
7/22/2015					<0.0025		<0.0025	
7/28/2015	<0.0025		<0.0025					
1/26/2016	<0.0025							
1/27/2016			<0.0025		<0.0025		<0.0025	
3/29/2016	<0.0025		<0.0025					
3/30/2016					<0.0025		<0.0025	
5/25/2016	<0.0025		<0.0025		<0.0025		<0.0025	
7/22/2016	<0.0025							
7/26/2016			<0.0025		<0.0025		<0.0025	
9/15/2016	<0.0025		<0.0025		<0.0025			
9/20/2016							<0.0025	
11/16/2016	<0.0025							
11/17/2016			<0.0025		<0.0025		<0.0025	
1/31/2017	<0.0025		<0.0025					
2/1/2017					<0.0025		<0.0025	
3/23/2017	<0.0025		<0.0025		<0.0025		<0.0025	
5/3/2017	<0.0025		<0.0025		<0.0025		<0.0025	
8/4/2017			<0.0025				<0.0025	
8/7/2017	<0.0025				<0.0025			
1/24/2018	<0.0025							
1/25/2018			<0.0025		<0.0025		<0.0025	
6/20/2018			<0.0025		<0.0025		<0.0025	
6/26/2018	<0.0025							
1/22/2019				0.0013 (J)		0.0013 (J)		0.0013 (J)
1/25/2019		0.0011 (J)						
6/25/2019				0.0022		0.0023		0.0022
6/26/2019		0.0021						

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19
8/30/2011	0.0028		0.0014		0.0014		0.0014	
10/26/2011	0.0023		<0.0025		<0.0025		<0.0025	
12/3/2011			<0.0025		<0.0025		<0.0025	
1/25/2012			<0.0025					
2/8/2012					<0.0025		<0.0025	
7/11/2012	0.0022		<0.0025		<0.0025		<0.0025	
1/8/2013	0.0023		<0.0025		<0.0025		<0.0025	
7/2/2013	0.0024							
7/16/2013			<0.0025		<0.0025		<0.0025	
1/14/2014	0.0023		<0.0025		<0.0025			
1/21/2014							<0.0025	
6/24/2014					<0.0025		<0.0025	
6/25/2014	0.0024		<0.0025					
1/13/2015	0.0024				<0.0025		<0.0025	
1/14/2015			<0.0025					
7/22/2015	0.0023							
7/23/2015					<0.0025		<0.0025	
7/28/2015			<0.0025					
1/27/2016	0.0022		<0.0025		<0.0025		<0.0025	
3/30/2016	0.00261 (J)		<0.0025		<0.0025		<0.0025	
5/25/2016	0.00238 (J)		<0.0025					
5/26/2016					<0.0025		<0.0025	
7/25/2016					<0.0025		<0.0025	
7/27/2016	0.0025		<0.0025					
9/16/2016	0.0023 (J)							
9/19/2016			<0.0025		<0.0025		<0.0025	
11/17/2016	0.0022 (J)		<0.0025		<0.0025		<0.0025	
2/1/2017	0.0024 (J)		<0.0025		0.0014 (J)			
2/2/2017							<0.0025	
3/24/2017	0.0026		<0.0025		<0.0025		<0.0025	
5/3/2017	0.0022 (J)		<0.0025		<0.0025		<0.0025	
8/7/2017	0.0023 (J)		<0.0025		<0.0025		<0.0025	
1/25/2018	0.0023 (J)		<0.0025		<0.0025		<0.0025	
6/20/2018	0.0025							
6/21/2018					<0.0025		<0.0025	
6/26/2018			<0.0025					
1/24/2019				0.0014 (J)				
1/28/2019						0.0012 (J)		<0.0025
6/25/2019		0.0045		0.0042				
6/26/2019								0.0023
6/27/2019						0.0022		

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22	GWC-23	GWC-23
8/31/2011	0.0016		0.0014					
9/15/2011					<0.0025			
9/16/2011							0.0019	
10/27/2011	<0.0025		<0.0025					
10/29/2011					<0.0025		<0.0025	
12/4/2011	<0.0025		<0.0025					
12/13/2011					<0.0025		<0.0025	
1/25/2012					<0.0025			
1/31/2012							<0.0025	
2/8/2012	<0.0025		<0.0025					
7/11/2012	<0.0025							
7/17/2012			<0.0025					
7/18/2012					0.0016		<0.0025	
1/8/2013	<0.0025							
1/9/2013			<0.0025					
1/22/2013					0.0019		<0.0025	
7/16/2013	<0.0025		<0.0025		<0.0025			
7/23/2013							0.0013	
1/21/2014	<0.0025		<0.0025		<0.0025			
1/22/2014							<0.0025	
6/24/2014	<0.0025		<0.0025					
6/25/2014					0.0011 (J)			
7/1/2014							0.0011 (J)	
1/13/2015	<0.0025		<0.0025					
1/14/2015					<0.0025			
1/22/2015							<0.0025	
7/23/2015	<0.0025		<0.0025		0.0015			
7/29/2015							0.0012 (J)	
1/21/2016							<0.0025	
1/26/2016			<0.0025		<0.0025			
1/27/2016	<0.0025							
3/29/2016							0.00226 (J)	
3/30/2016	<0.0025		<0.0025					
3/31/2016					<0.0025			
5/25/2016							<0.0025	
5/26/2016	<0.0025		<0.0025		<0.0025			
7/25/2016	<0.0025							
7/26/2016			<0.0025		<0.0025			
7/27/2016							<0.0025	
9/20/2016	<0.0025		<0.0025		0.0011 (J)		<0.0025	
11/17/2016	<0.0025		<0.0025		<0.0025			
11/18/2016							<0.0025	
2/2/2017	<0.0025		<0.0025					
2/3/2017					0.0011 (J)		<0.0025	
3/28/2017	<0.0025		<0.0025		0.0027		<0.0025	
5/3/2017					0.0018 (J)			
5/4/2017	<0.0025		<0.0025				<0.0025	
8/7/2017	0.0017 (J)		<0.0025					
8/8/2017					<0.0025		<0.0025	
1/25/2018					<0.0025		<0.0025	
1/26/2018	<0.0025		<0.0025					
6/20/2018			<0.0025		0.0015 (J)		<0.0025	





# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27
9/17/2011			0.0015		0.0018		<0.0025	
10/29/2011					<0.0025		<0.0025	
10/31/2011			<0.0025					
12/14/2011			<0.0025		<0.0025		<0.0025	
1/25/2012							<0.0025	
2/7/2012					<0.0025			
7/17/2012			0.0025		<0.0025		<0.0025	
1/24/2013					<0.0025		<0.0025	
7/24/2013			0.0017		<0.0025		<0.0025	
1/23/2014			<0.0025		<0.0025		<0.0025	
7/8/2014	<0.0025		<0.0025		<0.0025		<0.0025	
1/21/2015			<0.0025		<0.0025		<0.0025	
7/30/2015			<0.0025				<0.0025	
7/31/2015	<0.0025				<0.0025			
1/20/2016	<0.0025							
1/21/2016			0.002					
1/22/2016							<0.0025	
1/25/2016					<0.0025			
3/23/2016							<0.0025	
3/24/2016					<0.0025			
3/28/2016			<0.0025					
3/30/2016	<0.0025							
5/24/2016							<0.0025	
5/25/2016	<0.0025		<0.0025		<0.0025			
7/26/2016					<0.0025		<0.0025	
7/27/2016	<0.0025		<0.0025					
9/16/2016	<0.0025							
9/19/2016			<0.0025		<0.0025		<0.0025	
11/11/2016							<0.0025	
11/14/2016					<0.0025			
11/15/2016			<0.0025					
11/18/2016	<0.0025							
1/19/2017					<0.0025			
1/20/2017							<0.0025	
1/24/2017			0.0043					
2/3/2017	0.0011 (J)							
3/16/2017					<0.0025		<0.0025	
3/23/2017			<0.0025					
3/29/2017	<0.0025							
4/28/2017							<0.0025	
5/1/2017					<0.0025			
5/2/2017			0.015					
5/4/2017	<0.0025							
8/3/2017			<0.0025		<0.0025		<0.0025	
8/8/2017	<0.0025							
1/19/2018							<0.0025	
1/22/2018					<0.0025			
1/25/2018	<0.0025		<0.0025					
6/27/2018	<0.0025		<0.0025		<0.0025		<0.0025	
1/24/2019				0.0026		0.0018 (J)		0.0015 (J)
1/31/2019		0.0022 (J)						
6/25/2019				0.003		0.003		

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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6/26/2019	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27
		0.0027						0.0022

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
9/15/2011	<0.0025				<0.0025			
9/16/2011							<0.0025	
9/17/2011			0.0052					
10/28/2011	<0.0025							
10/30/2011							<0.0025	
10/31/2011			<0.0013		<0.0025			
12/13/2011	<0.0025				<0.0025		<0.0025	
2/1/2012					<0.0025		<0.0025	
2/7/2012			<0.0013					
2/8/2012	<0.0025							
7/17/2012					<0.0025		<0.0025	
7/18/2012	<0.0025							
1/23/2013			<0.0013		<0.0025		<0.0025	
1/24/2013	<0.0025							
7/17/2013							<0.0025	
7/24/2013	<0.0025				<0.0025			
1/23/2014	<0.0025		0.002		<0.0025		<0.0025	
7/1/2014	<0.0025		0.0046		<0.0025			
1/20/2015	<0.0025				<0.0025		0.0013	
1/21/2015			0.0026					
7/29/2015							0.0028	
7/30/2015	<0.0025				<0.0025			
1/19/2016	<0.0025							
1/25/2016			0.0014		<0.0025		0.001 (J)	
3/23/2016	<0.0025				<0.0025		<0.0025	
3/30/2016			0.00334 (J)					
5/20/2016	<0.0025							
5/24/2016					<0.0025		<0.0025	
5/25/2016			0.00321 (J)					
7/21/2016	<0.0025							
7/22/2016					<0.0025		<0.0025	
7/27/2016			0.0043					
9/16/2016					<0.0025		<0.0025	
9/20/2016	0.0011 (J)							
11/14/2016	<0.0025							
11/15/2016					<0.0025			
11/17/2016							0.0034	
1/24/2017	<0.0025							
1/25/2017			0.0027				<0.0025	
1/26/2017					<0.0025			
3/17/2017	<0.0025							
3/23/2017			0.0022 (J)				0.0032	
3/24/2017					<0.0025			
5/1/2017	<0.0025						<0.0025	
5/2/2017			0.0027		<0.0025			
7/19/2017			0.0019 (J)					
8/3/2017					0.0053			
8/4/2017	<0.0025		0.0021 (J)				<0.0025	
1/23/2018			0.012		<0.0025		<0.0025	
1/24/2018	<0.0025							
6/21/2018	0.0015 (J)							
6/26/2018					<0.0025		<0.0025	

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
6/27/2018			0.0017 (J)					
1/30/2019		0.0018 (J)				0.0017 (J)		0.0026
1/31/2019				0.0031				
6/26/2019				0.0037				0.0022
6/27/2019		0.0025				0.0022		

# Prediction Limit

Constituent: Chromium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6
8/31/2011					<0.0025		<0.0025	
9/16/2011	<0.0025		<0.0025					
10/27/2011					<0.0025			
10/31/2011	<0.0025		<0.0025					
12/5/2011					<0.0025		<0.0025	
12/12/2011	<0.0025		<0.0025					
1/25/2012					<0.0025		<0.0025	
2/1/2012	<0.0025		<0.0025					
7/16/2012	<0.0025		<0.0025					
7/18/2012					<0.0025			
7/24/2012							<0.0025	
1/8/2013							<0.0025	
1/9/2013					<0.0025			
1/22/2013	<0.0025		<0.0025					
7/2/2013			<0.0025					
7/9/2013							<0.0025	
7/17/2013	<0.0025				<0.0025			
1/15/2014					<0.0025		<0.0025	
1/21/2014			<0.0025					
1/23/2014	<0.0025							
6/25/2014	<0.0025		<0.0025		<0.0025		<0.0025	
1/13/2015					0.0012 (J)			
1/14/2015	<0.0025		<0.0025					
1/20/2015							<0.0025	
7/24/2015					<0.0025		<0.0025	
7/28/2015			<0.0025					
7/29/2015	<0.0025							
1/20/2016					<0.0025		<0.0025	
1/21/2016	<0.0025		<0.0025					
3/24/2016	<0.0025		<0.0025					
3/28/2016					<0.0025		<0.0025	
5/23/2016	<0.0025		<0.0025		<0.0025			
5/24/2016							<0.0025	
7/21/2016	<0.0025		<0.0025		0.0011 (J)		<0.0025	
9/15/2016	<0.0025		<0.0025		<0.0025		<0.0025	
11/15/2016	<0.0025		<0.0025		<0.0025			
11/16/2016							<0.0025	
1/25/2017	<0.0025							
1/26/2017			<0.0025		0.0013 (J)		<0.0025	
3/22/2017	<0.0025		<0.0025				<0.0025	
5/1/2017	<0.0025							
5/2/2017			<0.0025		<0.0025		<0.0025	
8/3/2017	<0.0025		<0.0025		<0.0025		<0.0025	
1/23/2018	<0.0025		<0.0025		<0.0025		<0.0025	
6/19/2018			<0.0025					
6/20/2018	<0.0025							
6/25/2018					<0.0025		<0.0025	
1/21/2019				0.0013 (J)				
1/28/2019		0.00076 (J)						
1/30/2019						0.0021 (J)		0.002 (J)
6/26/2019		0.0022		0.0022		0.0029		0.0027

# Prediction Limit

Constituent: Chromium, Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1
9/7/2011	<0.0025		<0.0025		0.0013			
9/16/2011							<0.0025	
10/27/2011							<0.0025	
10/30/2011	<0.0025		<0.0025		<0.0025			
12/4/2011					0.0021			
12/5/2011	<0.0025		<0.0025					
12/13/2011							<0.0025	
1/19/2012			<0.0025		<0.0025			
1/25/2012	<0.0025							
1/31/2012							<0.0025	
7/18/2012	<0.0025		<0.0025		<0.0025		<0.0025	
1/7/2013	<0.0025		<0.0025					
1/8/2013					0.0019			
1/24/2013							<0.0025	
7/9/2013	<0.0025		<0.0025		0.002			
7/17/2013							<0.0025	
1/14/2014	<0.0025		<0.0025		<0.0025			
1/21/2014							<0.0025	
6/24/2014	0.0018		<0.0025		0.0029			
6/25/2014							<0.0025	
1/14/2015							0.00068 (J)	
1/20/2015	<0.0025		<0.0025		<0.0025			
7/21/2015							<0.0025	
7/27/2015	<0.0025		<0.0025		0.0013			
1/21/2016							<0.0025	
1/26/2016	<0.0025		<0.0025		<0.0025			
3/23/2016							<0.0025	
3/29/2016	<0.0025		<0.0025		<0.0025			
5/20/2016							<0.0025	
5/24/2016	<0.0025		<0.0025		<0.0025			
7/21/2016							<0.0025	
7/22/2016	<0.0025							
7/25/2016					<0.0025			
7/26/2016			<0.0025					
9/15/2016	<0.0025						<0.0025	
9/19/2016			<0.0025		<0.0025			
11/11/2016							<0.0025	
11/16/2016	<0.0025		<0.0025		<0.0025			
1/19/2017							<0.0025	
1/26/2017	<0.0025		<0.0025					
1/31/2017					0.0015 (J)			
3/16/2017							<0.0025	
3/22/2017	<0.0025							
3/23/2017			<0.0025		0.0021 (J)			
4/28/2017							0.00044 (J)	
5/2/2017	<0.0025				0.0016 (J)			
5/3/2017			<0.0025					
8/3/2017							<0.0025	
8/4/2017	<0.0025							
8/7/2017			<0.0025		0.0024 (J)			
1/19/2018							<0.0025	
1/23/2018	<0.0025							

# Prediction Limit

Constituent: Chromium, Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1
1/24/2018			<0.0025		0.0019 (J)			
6/19/2018							<0.0025	
6/21/2018			<0.0025		0.0023 (J)			
6/25/2018	<0.0025							
1/17/2019								0.00033 (J)
1/21/2019		0.0012 (J)						
1/22/2019				0.0014 (J)		0.0027		
6/24/2019								0.00019 (J)
6/25/2019		0.0021		0.0024		0.0048		



# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2	GWA-29	GWA-29	GWA-3	GWA-3	GWA-4	GWA-4
8/31/2011					0.0028		0.0028	
9/17/2011	<0.0025		<0.0025					
10/27/2011	<0.0025						<0.0025	
10/28/2011			<0.0025					
12/12/2011			<0.0025					
12/14/2011	<0.0025						<0.0025	
1/31/2012			<0.0025					
2/1/2012							0.0027	
2/7/2012	<0.0025							
7/17/2012			<0.0025					
7/23/2012	<0.0025						0.0073	
1/23/2013	<0.0025						0.0029	
1/24/2013			<0.0025					
7/17/2013							0.0033	
7/24/2013	<0.0025		<0.0025					
1/15/2014							0.0076	
1/22/2014	<0.0025		<0.0025					
6/25/2014					0.00075 (J)		0.0044	
7/1/2014	0.00056 (J)							
7/8/2014			<0.0025					
1/14/2015							0.015	
1/21/2015			<0.0025					
1/22/2015	0.00067 (J)							
7/21/2015					0.00066 (J)		0.0053	
7/22/2015	<0.0025		<0.0025					
1/19/2016			<0.0025 (D)					
1/20/2016	<0.0025						0.0034	
3/22/2016			<0.0025					
3/23/2016	<0.0025						0.00443 (J)	
3/31/2016					<0.0025			
5/19/2016			<0.0025				0.00361 (J)	
5/24/2016	<0.0025							
5/25/2016					<0.0025			
7/21/2016			<0.0025				0.0058	
7/26/2016	<0.0025							
7/27/2016					<0.0025			
9/14/2016							0.0075	
9/16/2016	0.0011 (J)							
11/10/2016	<0.0025						0.01	
1/17/2017			<0.0025				0.013	
1/19/2017	<0.0025							
3/16/2017							0.0059	
3/17/2017	<0.0025							
4/27/2017			<0.0025				0.0052	
4/28/2017	0.00045 (J)							
7/18/2017			<0.0025					
8/1/2017			<0.0025		<0.0025			
8/2/2017	<0.0025						0.005	
10/3/2017					<0.0025			
1/19/2018	<0.0025		<0.0025					
1/22/2018							0.0046	
6/19/2018	0.00061 (J)		<0.0025				0.005	

# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2	GWA-29	GWA-29	GWA-3	GWA-3	GWA-4	GWA-4
6/20/2018					<0.0025			
1/17/2019		0.00018 (J)						0.0038
1/18/2019				<0.0025		0.00011 (J)		
6/24/2019		0.00019 (J)						0.006
6/25/2019				0.00012 (J)		0.00042 (J)		

# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12	GWC-15	GWC-15
9/13/2011			0.013		<0.0025			
9/16/2011							<0.0025	
10/27/2011							<0.0025	
10/28/2011			0.014		<0.0025			
12/3/2011							<0.0025	
12/4/2011			0.011		<0.0025			
1/24/2012					<0.0025			
2/9/2012			0.0091				<0.0025	
7/11/2012					<0.0025		<0.0025	
7/18/2012			0.0061					
1/8/2013			0.0035		<0.0025		<0.0025	
7/2/2013							<0.0025	
7/9/2013			0.0044					
7/10/2013					<0.0025			
1/15/2014			0.0043					
1/21/2014					<0.0025		<0.0025	
6/24/2014							<0.0025	
6/25/2014			0.011					
7/1/2014					<0.0025			
1/14/2015							0.00063 (J)	
1/21/2015			0.0057		<0.0025			
7/22/2015							0.00065 (J)	
7/28/2015			0.009		<0.0025			
1/25/2016	0.0048							
1/26/2016			0.0025		<0.0025			
1/27/2016							0.0016	
3/29/2016			0.00664 (J)		<0.0025			
3/30/2016	0.0025 (J)						<0.0025	
5/25/2016	0.00272 (J)		0.0102		<0.0025		<0.0025	
7/22/2016					<0.0025			
7/25/2016			0.0059					
7/26/2016							<0.0025	
7/27/2016	0.0052							
9/15/2016					<0.0025			
9/16/2016	0.0048							
9/19/2016			0.0061					
9/20/2016							<0.0025	
11/16/2016			0.005		<0.0025			
11/17/2016	0.0095						0.001 (J)	
1/31/2017			0.012		<0.0025			
2/1/2017	0.009						<0.0025	
3/23/2017			0.013		<0.0025		0.0013 (J)	
3/24/2017	0.0026							
5/2/2017			0.013					
5/3/2017	0.0073				<0.0025		0.00055 (J)	
8/4/2017							0.0018 (J)	
8/7/2017			0.0099		<0.0025			
8/8/2017	0.0037							
1/24/2018			0.0047		<0.0025			
1/25/2018	0.01						0.00072 (J)	
6/20/2018			0.0063				<0.0025	
6/21/2018	0.012							

# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12	GWC-15	GWC-15
6/26/2018					<0.0025			
1/22/2019								0.00016 (J)
1/24/2019				0.0015 (J)				
1/25/2019						0.00032 (J)		
1/31/2019		0.0063						
6/25/2019								0.00012 (J)
6/26/2019		0.0051		0.0037		0.00039 (J)		

# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16	GWC-19	GWC-19	GWC-20	GWC-20	GWC-21	GWC-21
8/30/2011			0.0042					
8/31/2011					<0.0025		0.0047	
10/26/2011	<0.0005		<0.0025					
10/27/2011					<0.0025		0.0032	
12/3/2011	<0.0005		0.0036					
12/4/2011					<0.0025		0.003	
1/25/2012	<0.0005							
2/8/2012			<0.0025		<0.0025		0.0035	
7/11/2012	<0.0005		<0.0025		<0.0025			
7/17/2012							0.0043	
1/8/2013	<0.0005		0.0017		<0.0025			
1/9/2013							0.0019	
7/2/2013	<0.0005							
7/16/2013			<0.0025		<0.0025		0.0043	
1/14/2014	<0.0005							
1/21/2014			0.00055 (J)		<0.0025		0.00093 (J)	
6/24/2014			0.00071 (J)		0.00071 (J)		<0.0025	
6/25/2014	<0.0005							
1/13/2015	<0.0005		0.00085 (J)		<0.0025		0.00058 (J)	
7/22/2015	<0.0005							
7/23/2015			0.00099 (J)		0.0011 (J)		<0.0025	
1/26/2016							0.0015	
1/27/2016	<0.0005		0.00077 (J)		<0.0025			
3/30/2016	<0.0005		<0.0025		<0.0025		<0.0025	
5/25/2016	<0.0005							
5/26/2016			<0.0025		<0.0025		<0.0025	
7/25/2016			<0.0025		0.00042 (J)			
7/26/2016							<0.0025	
7/27/2016	<0.0005							
9/16/2016	<0.0005							
9/19/2016			<0.0025					
9/20/2016					0.00064 (J)		<0.0025	
11/17/2016	<0.0005		<0.0025		<0.0025		<0.0025	
2/1/2017	<0.0005							
2/2/2017			0.011		<0.0025		0.0004 (J)	
3/24/2017	<0.0005		0.0016 (J)					
3/28/2017					<0.0025		0.00047 (J)	
5/3/2017	<0.0005		0.0017 (J)					
5/4/2017					<0.0025		0.00043 (J)	
8/7/2017	<0.0005		0.00081 (J)		<0.0025		0.0024 (J)	
1/25/2018	<0.0005		0.00047 (J)					
1/26/2018					0.00058 (J)		0.0048	
6/20/2018	<0.0005						0.0031	
6/21/2018			0.0009 (J)		<0.0025			
1/24/2019								0.0028
1/25/2019		0.00013 (J)						
1/28/2019				0.00043 (J)		<0.0025		
6/25/2019		<0.0005				0.00012 (J)		0.0028
6/26/2019				0.00042 (J)				

# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26
9/16/2011	0.0037							
9/17/2011					<0.0025		<0.0025	
10/29/2011	<0.0005						<0.0025	
10/31/2011					0.0042			
12/13/2011	0.003							
12/14/2011					0.0047		<0.0025	
1/31/2012	0.0027							
2/7/2012					<0.0025		<0.0025	
7/17/2012					0.044		<0.0025	
7/18/2012	0.0021							
1/22/2013	0.002							
1/24/2013							0.0018	
7/23/2013	0.0013							
7/24/2013					0.041		<0.0025	
1/22/2014	0.00035 (J)							
1/23/2014					0.0077		0.00041 (J)	
7/1/2014	0.00088 (J)							
7/8/2014			0.0023		0.028		<0.0025	
1/21/2015					0.0063		<0.0025	
1/22/2015	<0.0005							
7/29/2015	0.00052 (J)							
7/30/2015					0.01			
7/31/2015			0.0018				<0.0025	
1/20/2016			0.0023					
1/21/2016	<0.0005				0.0094			
1/25/2016							<0.0025	
3/24/2016							<0.0025	
3/28/2016					0.0117			
3/29/2016	<0.0005							
3/30/2016			<0.01					
5/25/2016	<0.0005		<0.01		0.0122		<0.0025	
7/26/2016							<0.0025	
7/27/2016	<0.0005		0.00095 (J)		0.0065			
9/16/2016			0.0053					
9/19/2016					0.0071		<0.0025	
9/20/2016	<0.0005							
11/14/2016							0.00061 (J)	
11/15/2016					0.029			
11/18/2016	<0.0005		0.0011 (J)					
1/19/2017							<0.0025	
1/24/2017					0.033			
2/3/2017	<0.0005		0.00097 (J)					
3/16/2017							<0.0025	
3/23/2017					0.022			
3/28/2017	<0.0005							
3/29/2017			0.00059 (J)					
5/1/2017							<0.0025	
5/2/2017					0.036			
5/4/2017	<0.0005		0.0011 (J)					
8/3/2017					0.00041 (J)		<0.0025	
8/8/2017	<0.0005		0.0011 (J)					
1/22/2018							<0.0025	

# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26
1/25/2018	<0.0005		0.00088 (J)		0.01			
6/20/2018	<0.0005							
6/27/2018			0.00086 (J)		0.01		<0.0025	
1/24/2019						0.0014 (J)		0.00012 (J)
1/25/2019		8.4E-05 (J)						
1/31/2019				0.0029				
6/25/2019						0.001		0.00017 (J)
6/26/2019		<0.0005		0.001				

# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
9/15/2011					<0.0025			
9/16/2011							<0.0025	
9/17/2011	<0.0025		<0.0005					
10/29/2011	<0.0025							
10/30/2011							0.0031	
10/31/2011			<0.0005		<0.0025			
12/13/2011					<0.0025		0.0033	
12/14/2011	<0.0025							
1/25/2012	<0.0025							
2/1/2012					<0.0025		<0.0025	
2/7/2012			<0.0005					
7/17/2012	0.0023				<0.0025		0.0037	
1/23/2013			<0.0005		<0.0025		0.002	
1/24/2013	0.0033							
7/17/2013							0.0013	
7/24/2013					<0.0025			
1/23/2014	0.0024		<0.0005		<0.0025		0.00071 (J)	
7/1/2014			<0.0005		<0.0025			
7/8/2014	0.0027							
1/20/2015					<0.0025		0.0013	
1/21/2015	0.0025		<0.0005					
7/29/2015							0.00054 (J)	
7/30/2015	0.003				<0.0025			
1/22/2016	0.0018							
1/25/2016			<0.0005		<0.0025		0.00082 (J)	
3/23/2016	0.00275 (J)				<0.0025		<0.0025	
3/30/2016			<0.0005					
5/24/2016	0.0024 (J)				<0.0025		0.0136	
5/25/2016			<0.0005					
7/22/2016					0.00058 (J)		0.01	
7/26/2016	0.0043							
7/27/2016			0.0015 (J)					
9/16/2016					0.00088 (J)		0.011	
9/19/2016	0.0024 (J)							
11/11/2016	0.0018 (J)							
11/15/2016					<0.0025			
11/17/2016							0.0032	
1/20/2017	0.0027							
1/25/2017			<0.0005				<0.0025	
1/26/2017					0.0013 (J)			
3/16/2017	0.0024 (J)							
3/23/2017			<0.0005				0.0037	
3/24/2017					0.0012 (J)			
4/28/2017	0.0026							
5/1/2017							0.0085	
5/2/2017			<0.0005		0.00095 (J)			
7/19/2017			<0.0005					
8/3/2017	0.0024 (J)				0.00045 (J)			
8/4/2017			<0.0005				0.0023 (J)	
1/19/2018	0.0019 (J)							
1/23/2018			<0.0005		0.00053 (J)		0.0024 (J)	
6/26/2018					<0.0025		0.0042	



# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
6/27/2018	0.002 (J)		<0.0005					
1/24/2019		0.0019 (J)						
1/30/2019						0.00012 (J)		0.00012 (J)
1/31/2019				<0.0005				
6/26/2019		0.0023		<0.0005				0.0025
6/27/2019						0.00017 (J)		

# Prediction Limit

Constituent: Cobalt Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6
8/31/2011					0.02		0.013	
9/16/2011	<0.0005		<0.0025					
10/27/2011					0.038			
10/30/2011							0.037	
10/31/2011	<0.0005		<0.0025					
12/5/2011					0.04		0.029	
12/12/2011	<0.0005		0.0025					
1/25/2012					0.043		0.018	
2/1/2012	<0.0005		<0.0025					
7/16/2012	<0.0005		0.0017					
7/18/2012					0.028			
7/24/2012							0.011	
1/8/2013							0.012	
1/9/2013					0.037			
1/22/2013	<0.0005		0.0013					
7/2/2013			<0.0025					
7/9/2013							0.017	
7/17/2013	<0.0005				0.018			
1/15/2014					0.018		0.017	
1/21/2014			0.00076 (J)					
1/23/2014	<0.0005							
6/25/2014	<0.0005		0.00093 (J)		0.019		0.0099	
1/13/2015					0.012			
1/14/2015	<0.0005		0.00069 (J)					
1/20/2015							0.0098	
7/24/2015					0.013		0.012	
7/28/2015			0.00053 (J)					
7/29/2015	<0.0005							
1/20/2016					0.012		0.01	
1/21/2016	<0.0005		0.0005 (J)					
3/24/2016	<0.0005		<0.0025					
3/28/2016					0.0101		0.0104	
5/23/2016	<0.0005		<0.0025		0.00701 (J)			
5/24/2016							0.00926 (J)	
7/21/2016	<0.0005		<0.0025		0.0079		0.01	
9/15/2016	<0.0005		<0.0025		0.02		0.014	
11/15/2016	0.00043 (J)		<0.0025		0.011			
11/16/2016							0.015	
1/25/2017	<0.0005							
1/26/2017			<0.0025		0.0075		0.011	
3/22/2017	<0.0005		<0.0025		0.0063		0.012	
5/1/2017	<0.0005							
5/2/2017			<0.0025		0.0036		0.0094	
8/3/2017	0.027		<0.0025		0.0061		0.014	
1/23/2018	<0.0005		<0.0025		0.01		0.013	
6/19/2018			0.00042 (J)					
6/20/2018	<0.0005							
6/25/2018					0.0049		0.014	
1/21/2019				0.00025 (J)				
1/28/2019		<0.0005						
1/30/2019						0.00068 (J)		0.017
6/26/2019		<0.0005		0.00028 (J)		0.0054		0.012



# Prediction Limit

Constituent: Cobalt, Copper Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9	GWA-2	GWA-2
1/21/2019		0.00051 (J)						
1/22/2019				0.013		0.028		
6/24/2019								0.0011 (J)
6/25/2019		0.0039		0.035		0.043		



# Prediction Limit

Constituent: Copper Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15	GWC-17	GWC-17
8/30/2011							<0.002	
9/13/2011	<0.002		<0.0025					
9/16/2011					<0.002			
10/26/2011							<0.002	
10/27/2011			<0.0025		<0.002			
10/28/2011	<0.002							
12/3/2011			<0.0025		<0.002		<0.002	
12/4/2011	<0.002							
1/24/2012	<0.002		<0.0025					
1/25/2012							<0.002	
2/9/2012					<0.002			
7/11/2012	<0.002		<0.0025		<0.002		<0.002	
1/8/2013	<0.002		<0.0025		<0.002		<0.002	
7/2/2013					<0.002			
7/10/2013	<0.002		<0.0025					
7/16/2013							<0.002	
1/14/2014							<0.002	
1/21/2014	<0.002		<0.0025		<0.002			
6/24/2014					<0.002			
6/25/2014							<0.002	
7/1/2014	<0.002		0.0014 (J)					
1/14/2015			<0.0025		<0.002		<0.002	
1/21/2015	<0.002							
7/22/2015			<0.0025		<0.002			
7/28/2015	<0.002						0.00081 (J)	
1/27/2016	0.0021 (J)		0.0068		<0.002		<0.002	
1/31/2017	<0.002							
2/1/2017			<0.0025		<0.002		<0.002	
8/4/2017	<0.002				<0.002			
8/7/2017			<0.0025				<0.002	
1/25/2018	<0.002		<0.0025		<0.002		<0.002	
6/20/2018	<0.002		<0.0025		<0.002			
6/26/2018							<0.002	
1/22/2019		<0.002		<0.0025		0.003		
1/24/2019								<0.002
6/25/2019		<0.002		0.0008 (J)		<0.002		<0.002

# Prediction Limit

Constituent: Copper Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25
8/31/2011	<0.002							
9/16/2011			<0.002					
9/17/2011							<0.0025	
10/27/2011	<0.002							
10/29/2011			<0.002					
10/31/2011							<0.0025	
12/4/2011	<0.002							
12/13/2011			<0.002					
12/14/2011							<0.0025	
1/31/2012			<0.002					
2/7/2012							<0.0025	
2/8/2012	<0.002							
7/11/2012	<0.002							
7/17/2012							<0.0025	
7/18/2012			<0.002					
1/8/2013	<0.002							
1/22/2013			<0.002					
7/16/2013	<0.002							
7/23/2013			<0.002					
7/24/2013							<0.0025	
1/21/2014	<0.002							
1/22/2014			<0.002					
1/23/2014							0.0034 (J)	
6/24/2014	<0.002							
7/1/2014			0.0015 (J)					
7/8/2014					<0.0025		0.0017 (J)	
1/13/2015	<0.002							
1/21/2015							<0.0025	
1/22/2015			<0.002					
7/23/2015	<0.002							
7/29/2015			0.0012 (J)					
7/30/2015							0.0028 (J)	
7/31/2015					0.0028 (J)			
1/20/2016					0.0012 (J)			
1/21/2016			<0.002				0.0029 (J)	
1/27/2016	<0.002							
1/24/2017							<0.0025	
2/2/2017	<0.002							
2/3/2017			<0.002		<0.0025			
8/3/2017							<0.0025	
8/7/2017	0.0054							
8/8/2017			<0.002		<0.0025			
1/25/2018			<0.002		<0.0025		<0.0025	
1/26/2018	0.0025							
6/20/2018			<0.002					
6/21/2018	<0.002							
6/27/2018					<0.0025		<0.0025	
1/24/2019								0.003
1/25/2019			<0.002					
1/28/2019		<0.002						
1/31/2019						0.00063 (J)		
6/25/2019		<0.002						0.0029

# Prediction Limit

Constituent: Copper Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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6/26/2019	GWC-20	GWC-20	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25
				<0.002		0.00094 (J)		



# Prediction Limit

Constituent: Copper Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26	GWC-27	GWC-27	GWC-31	GWC-31	GWC-33	GWC-33
9/16/2011							<0.002	
9/17/2011	<0.0025		<0.002		<0.0025			
10/29/2011	<0.0025		<0.002					
10/30/2011							<0.002	
10/31/2011					<0.0025			
12/13/2011							<0.002	
12/14/2011	<0.0025		<0.002					
1/25/2012			<0.002					
2/1/2012							<0.002	
2/7/2012	<0.0025				<0.0025			
7/17/2012	<0.0025		<0.002				<0.002	
1/23/2013					<0.0025		<0.002	
1/24/2013	<0.0025		<0.002					
7/17/2013							<0.002	
7/24/2013	<0.0025		<0.002					
1/23/2014	0.0027 (J)		<0.002		0.0018 (J)		<0.002	
7/1/2014					0.0048 (J)			
7/8/2014	<0.0025		<0.002					
1/20/2015							<0.002	
1/21/2015	<0.0025		<0.002		<0.0025			
7/29/2015							0.0012 (J)	
7/30/2015			0.002 (J)					
7/31/2015	0.0024 (J)							
1/22/2016			0.0038 (J)					
1/25/2016	<0.0025				<0.0025		<0.002	
1/19/2017	<0.0025							
1/20/2017			<0.002					
1/25/2017					<0.0025		<0.002	
8/3/2017	<0.0025		<0.002					
8/4/2017					0.003		<0.002	
1/19/2018			<0.002					
1/22/2018	<0.0025							
1/23/2018					0.0022 (J)		<0.002	
6/26/2018							<0.002	
6/27/2018	<0.0025		<0.002		0.0036			
1/24/2019		0.0017 (J)		<0.002				
1/30/2019								<0.002
1/31/2019						0.00064 (J)		
6/25/2019		0.002						
6/26/2019				<0.002		0.0019 (J)		<0.002

# Prediction Limit

Constituent: Copper Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6	GWC-8	GWC-8
8/31/2011			<0.002		<0.002			
9/7/2011							<0.0025	
9/16/2011	<0.002							
10/27/2011			<0.002					
10/30/2011					<0.002		<0.0025	
10/31/2011	<0.002							
12/5/2011			<0.002		<0.002		<0.0025	
12/12/2011	<0.002							
1/19/2012							<0.0025	
1/25/2012			<0.002		<0.002			
2/1/2012	<0.002							
7/16/2012	<0.002							
7/18/2012			<0.002				<0.0025	
7/24/2012					<0.002			
1/7/2013							<0.0025	
1/8/2013					<0.002			
1/9/2013			<0.002					
1/22/2013	<0.002							
7/2/2013	<0.002							
7/9/2013					<0.002		<0.0025	
7/17/2013			<0.002					
1/14/2014							0.001 (J)	
1/15/2014			0.0012 (J)		0.0031 (J)			
1/21/2014	0.0017 (J)							
6/24/2014							<0.0025	
6/25/2014	0.00087 (J)		0.00098 (J)		<0.002			
1/13/2015			0.00095 (J)					
1/14/2015	<0.002							
1/20/2015					<0.002		0.0014 (J)	
7/24/2015			<0.002		<0.002			
7/27/2015							<0.0025	
7/28/2015	0.0008 (J)							
1/20/2016			<0.002		0.0011 (J)			
1/21/2016	0.00095 (J)							
1/26/2016							0.0013 (J)	
1/26/2017	<0.002		<0.002		<0.002		0.0021 (J)	
8/3/2017	<0.002		<0.002		<0.002			
8/7/2017							0.0035	
1/23/2018	<0.002		<0.002		<0.002			
1/24/2018							<0.0025	
6/19/2018	<0.002							
6/21/2018							0.0024 (J)	
6/25/2018			<0.002		<0.002			
1/21/2019		<0.002						
1/22/2019								<0.0025
1/30/2019				<0.002		<0.002		
6/25/2019								0.00074 (J)
6/26/2019		<0.002		<0.002		<0.002		

# Prediction Limit

Constituent: Copper, Lead Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9	GWA-29	GWA-29	GWA-3	GWA-3	GWC-10	GWC-10
8/31/2011					<0.001			
9/7/2011	<0.002							
9/17/2011			<0.001					
10/28/2011			<0.001					
10/30/2011	<0.002							
12/4/2011	<0.002							
12/12/2011			<0.001					
1/19/2012	<0.002							
1/31/2012			<0.001					
7/17/2012			<0.001					
7/18/2012	<0.002							
1/8/2013	<0.002							
1/24/2013			<0.001					
7/9/2013	<0.002							
7/24/2013			<0.001					
1/14/2014	<0.002							
1/22/2014			<0.001					
6/24/2014	<0.002							
6/25/2014					<0.001			
7/8/2014			<0.001 (D)					
1/20/2015	<0.002							
1/21/2015			<0.001					
7/21/2015					<0.001			
7/22/2015			<0.001					
7/27/2015	<0.002							
1/19/2016			<0.001 (D)					
1/25/2016							<0.001	
1/26/2016	0.0022 (J)							
3/22/2016			<0.001					
3/30/2016							<0.001	
3/31/2016					<0.001			
5/19/2016			<0.001					
5/25/2016					<0.001		<0.001	
7/21/2016			<0.001					
7/27/2016					<0.001		0.0013	
9/16/2016							<0.001	
11/17/2016							<0.001	
1/17/2017			<0.001					
1/31/2017	0.0021 (J)							
2/1/2017							<0.001	
3/24/2017							<0.001	
4/27/2017			<0.001					
5/3/2017							<0.001	
7/18/2017			<0.001					
8/1/2017			<0.001		<0.001			
8/7/2017	<0.002							
8/8/2017							<0.001	
10/3/2017					<0.001			
1/19/2018			<0.001					
1/24/2018	<0.002							
1/25/2018							<0.001	
6/19/2018			<0.001					



# Prediction Limit

Constituent: Lead Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20
8/30/2011	<0.001		<0.001		<0.001			
8/31/2011							<0.001	
10/26/2011	<0.001		<0.001		<0.001			
10/27/2011							<0.001	
12/3/2011	<0.001		<0.001		<0.001			
12/4/2011							<0.001	
1/25/2012	<0.001							
2/8/2012					<0.001		<0.001	
2/9/2012			<0.001					
7/11/2012	<0.001		<0.001		<0.001		<0.001	
1/8/2013	<0.001		<0.001		<0.001		<0.001	
7/16/2013	<0.001		<0.001		<0.001		<0.001	
1/14/2014	<0.001		<0.001					
1/21/2014					<0.001		<0.001	
6/24/2014			<0.001		<0.001		<0.001	
6/25/2014	<0.001							
1/13/2015			0.0026 (J)		<0.001		<0.001	
1/14/2015	<0.001							
7/23/2015			<0.001		<0.001		<0.001	
7/28/2015	<0.001							
1/27/2016	<0.001		<0.001		<0.001		<0.001	
3/30/2016	<0.001		<0.001		<0.001		<0.001	
5/25/2016	<0.001							
5/26/2016			<0.001		<0.001		<0.001	
7/25/2016			<0.001		<0.001		<0.001	
7/27/2016	<0.001							
9/19/2016	<0.001		<0.001		<0.001			
9/20/2016							<0.001	
11/17/2016	<0.001		<0.001		<0.001		<0.001	
2/1/2017	0.0009 (J)		<0.001					
2/2/2017					<0.001		<0.001	
3/24/2017	<0.001		<0.001		<0.001			
3/28/2017							<0.001	
5/3/2017	<0.001		<0.001		0.0013			
5/4/2017							<0.001	
8/7/2017	<0.001		<0.001		<0.001		0.011	
1/25/2018	<0.001		<0.001		<0.001			
1/26/2018							<0.001	
6/21/2018			<0.001		<0.001		<0.001	
6/26/2018	<0.001							
1/24/2019		<0.001						
1/28/2019				0.00016 (J)		0.00011 (J)		0.00014 (J)
6/25/2019		<0.001						<0.001
6/26/2019						<0.001		
6/27/2019				<0.001				

# Prediction Limit

Constituent: Lead Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27
9/17/2011			<0.001		<0.001		<0.001	
10/29/2011					<0.001		<0.001	
10/31/2011			<0.001					
12/14/2011			<0.001		<0.001		<0.001	
1/25/2012							<0.001	
2/7/2012			<0.001		<0.001			
7/17/2012			<0.001		<0.001		<0.001	
1/24/2013					<0.001		<0.001	
7/24/2013			<0.001		<0.001		<0.001	
1/23/2014			<0.001		<0.001		<0.001	
7/8/2014	<0.0013		<0.001		<0.001		<0.001	
1/21/2015			<0.001		<0.001		<0.001	
7/30/2015			<0.001				<0.001	
7/31/2015	<0.0013				<0.001			
1/20/2016	<0.0013							
1/21/2016			<0.001					
1/22/2016							<0.001	
1/25/2016					<0.001			
3/23/2016							<0.001	
3/24/2016					<0.001			
3/28/2016			<0.001					
3/30/2016	<0.0013							
5/24/2016							<0.001	
5/25/2016	<0.0013		<0.001		<0.001			
7/26/2016					<0.001		<0.001	
7/27/2016	<0.0013		<0.001					
9/16/2016	<0.0013							
9/19/2016			<0.001		<0.001		<0.001	
11/11/2016							<0.001	
11/14/2016					<0.001			
11/15/2016			<0.001					
11/18/2016	<0.0013							
1/19/2017					<0.001			
1/20/2017							<0.001	
1/24/2017			<0.001					
2/3/2017	<0.0013							
3/16/2017					<0.001		<0.001	
3/23/2017			<0.001					
3/29/2017	<0.0013							
4/28/2017							<0.001	
5/1/2017					<0.001			
5/2/2017			0.0021					
5/4/2017	<0.0013							
8/3/2017			<0.001		<0.001		<0.001	
8/8/2017	<0.0013							
1/19/2018							<0.001	
1/22/2018					<0.001			
1/25/2018	<0.0013		<0.001					
6/27/2018	<0.0013		<0.001		<0.001		<0.001	
1/24/2019				0.00021 (J)		9.8E-05 (J)		9.8E-05 (J)
1/31/2019		0.00013 (J)						
6/25/2019				<0.001		<0.001		

# Prediction Limit

Constituent: Lead Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27
6/26/2019		0.00016 (J)						<0.001

# Prediction Limit

Constituent: Lead Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31	GWC-34	GWC-34	GWC-5	GWC-5	GWC-8	GWC-8
8/31/2011					<0.001			
9/7/2011							<0.001	
9/16/2011			<0.001					
9/17/2011	<0.0013							
10/27/2011					<0.001			
10/30/2011							<0.001	
10/31/2011	<0.0013		<0.001					
12/5/2011					<0.001		<0.001	
12/12/2011			<0.001					
1/19/2012							<0.001	
1/25/2012					<0.001			
2/1/2012			<0.001					
2/7/2012	<0.0013							
7/16/2012			<0.001					
7/18/2012					<0.001		<0.001	
1/7/2013							<0.001	
1/9/2013					<0.001			
1/22/2013			<0.001					
1/23/2013	<0.0013							
7/9/2013							<0.001	
7/17/2013			<0.001		<0.001			
1/14/2014							<0.001	
1/15/2014					<0.001			
1/23/2014	0.0012 (J)		<0.001					
6/24/2014							<0.001	
6/25/2014			<0.001		<0.001			
7/1/2014	<0.0013							
1/13/2015					<0.001			
1/14/2015			<0.001					
1/20/2015							<0.001	
1/21/2015	<0.0013							
7/24/2015					<0.001			
7/27/2015							<0.001	
7/29/2015			<0.001					
1/20/2016					<0.001			
1/21/2016			<0.001					
1/25/2016	<0.0013							
1/26/2016							<0.001	
3/24/2016			<0.001					
3/28/2016					<0.001			
3/29/2016							<0.001	
3/30/2016	<0.0013							
5/23/2016			<0.001		<0.001			
5/24/2016							<0.001	
5/25/2016	<0.0013							
7/21/2016			<0.001		<0.001			
7/26/2016							<0.001	
7/27/2016	0.00078 (J)							
9/15/2016			<0.001		<0.001			
9/19/2016							<0.001	
11/15/2016			<0.001		<0.001			
11/16/2016							<0.001	



# Prediction Limit

Constituent: Lead Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31	GWC-34	GWC-34	GWC-5	GWC-5	GWC-8	GWC-8
1/25/2017	0.00042 (J)		<0.001					
1/26/2017					<0.001		<0.001	
3/22/2017			<0.001		<0.001			
3/23/2017	<0.0013						<0.001	
5/1/2017			<0.001					
5/2/2017	0.00039 (J)				<0.001			
5/3/2017							<0.001	
7/19/2017	0.00051 (J)							
8/3/2017			<0.001		<0.001			
8/4/2017	0.00037 (J)							
8/7/2017							<0.001	
1/23/2018	<0.0013		<0.001		<0.001			
1/24/2018							<0.001	
6/20/2018			<0.001					
6/21/2018							0.00036 (J)	
6/25/2018					<0.001			
6/27/2018	<0.0013							
1/22/2019								<0.001
1/28/2019				0.00022 (J)				
1/30/2019						0.00014 (J)		
1/31/2019		0.00015 (J)						
6/25/2019								<0.001
6/26/2019		0.00022 (J)		<0.001		<0.001		

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-3	GWA-3
8/31/2011							<0.0002	
9/16/2011	<0.0002				<0.0002			
9/17/2011			<0.0002					
10/27/2011	<0.0002		<0.0002					
10/28/2011					<0.0002			
12/12/2011					<0.0002			
12/13/2011	<0.0002							
12/14/2011			<0.0002					
1/25/2012					<0.0002			
1/31/2012	<0.0002							
2/7/2012			<0.0002					
7/16/2012					<0.0002			
7/18/2012	<0.0002							
7/23/2012			<0.0002					
1/23/2013			<0.0002					
1/24/2013	<0.0002				<0.0002			
7/17/2013	<0.0002							
7/23/2013					<0.0002			
7/24/2013			<0.0002					
1/21/2014	<0.0002							
1/22/2014			<0.0002		<0.0002			
6/25/2014	<0.0002						<0.0002	
7/1/2014			<0.0002		<0.0002			
1/14/2015	<0.0002							
1/21/2015					<0.0002			
1/22/2015			<0.0002					
7/21/2015	<0.0002				<0.0002		<0.0002	
7/22/2015			<0.0002					
1/20/2016			<0.0002					
1/21/2016	<0.0002							
1/22/2016					<0.0002			
3/22/2016					<0.0002			
3/23/2016	<0.0002		<0.0002					
3/31/2016							<0.0002	
5/20/2016	<0.0002							
5/23/2016					<0.0002			
5/24/2016			<0.0002					
5/25/2016							<0.0002	
7/21/2016	9.7E-05 (J)							
7/25/2016					8.9E-05 (J)			
7/26/2016			0.00012 (J)					
7/27/2016							0.00011 (J)	
9/15/2016	<0.0002				<0.0002			
9/16/2016			<0.0002					
11/9/2016					<0.0002			
11/10/2016			<0.0002					
11/11/2016	<0.0002							
1/17/2017					<0.0002			
1/19/2017	<0.0002		<0.0002					
3/16/2017	0.00015 (J)				0.00016 (J)			
3/17/2017			0.00015 (J)					
4/27/2017					<0.0002			

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-3	GWA-3
4/28/2017	<0.0002		<0.0002					
8/1/2017					<0.0002		<0.0002	
8/2/2017			<0.0002					
8/3/2017	<0.0002							
10/3/2017							<0.0002	
1/19/2018	<0.0002		<0.0002		<0.0002			
6/19/2018	<0.0002		<0.0002		<0.0002			
6/20/2018							<0.0002	
1/17/2019		<0.0002		<0.0002				
1/18/2019								<0.0002
1/21/2019						<0.0002		
6/24/2019		<0.0002		<0.0002				
6/25/2019						<0.0002		<0.0002

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12
8/31/2011	<0.0002							
9/13/2011					<0.0002		<0.0002	
10/27/2011	<0.0002							
10/28/2011					<0.0002		<0.0002	
12/4/2011					<0.0002		<0.0002	
12/14/2011	<0.0002							
1/24/2012							<0.0002	
2/1/2012	<0.0002							
2/9/2012					<0.0002			
7/11/2012							<0.0002	
7/18/2012					<0.0002			
7/23/2012	<0.0002							
1/8/2013					<0.0002		<0.0002	
1/23/2013	<0.0002							
7/9/2013					<0.0002			
7/10/2013							<0.0002	
7/17/2013	<0.0002							
1/15/2014	<0.0002				<0.0002			
1/21/2014							<0.0002	
6/25/2014	<0.0002				<0.0002			
7/1/2014							<0.0002	
1/14/2015	<0.0002							
1/21/2015					<0.0002		<0.0002	
7/21/2015	<0.0002							
7/28/2015					<0.0002		<0.0002	
1/20/2016	<0.0002							
1/25/2016			<0.0002					
1/26/2016					<0.0002		<0.0002	
3/23/2016	<0.0002							
3/29/2016					<0.0002		<0.0002	
3/30/2016			<0.0002					
5/19/2016	<0.0002							
5/25/2016			<0.0002		<0.0002		<0.0002	
7/21/2016	8.7E-05 (J)							
7/22/2016							<0.0002	
7/25/2016					9.6E-05 (J)			
7/27/2016			9.4E-05 (J)					
9/14/2016	<0.0002							
9/15/2016							<0.0002	
9/16/2016			<0.0002					
9/19/2016					<0.0002			
11/10/2016	<0.0002							
11/16/2016					<0.0002		<0.0002	
11/17/2016			<0.0002					
1/17/2017	<0.0002							
1/31/2017					7.1E-05 (J)		0.00013 (J)	
2/1/2017			0.00011 (J)					
3/16/2017	0.00016 (J)							
3/23/2017					<0.0002		<0.0002	
3/24/2017			<0.0002					
4/27/2017	<0.0002							
5/2/2017					<0.0002			

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12
5/3/2017			<0.0002				<0.0002	
8/2/2017	<0.0002							
8/7/2017					<0.0002		<0.0002	
8/8/2017			<0.0002					
1/22/2018	<0.0002							
1/24/2018					<0.0002		<0.0002	
1/25/2018			<0.0002					
6/19/2018	<0.0002							
6/20/2018					<0.0002			
6/21/2018			<0.0002					
6/26/2018							<0.0002	
1/17/2019		<0.0002						
1/24/2019						<0.0002		
1/25/2019								<0.0002
1/31/2019				<0.0002				
6/24/2019		<0.0002						
6/26/2019				<0.0002		<0.0002		<0.0002

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16
8/30/2011							<0.0002	
9/13/2011	<0.0002		<0.0002					
9/16/2011					<0.0002			
10/26/2011							<0.0002	
10/27/2011			<0.0002		<0.0002			
10/28/2011	<0.0002							
12/3/2011			<0.0002		<0.0002		<0.0002	
12/4/2011	<0.0002							
1/24/2012	<0.0002		<0.0002					
1/25/2012							<0.0002	
2/9/2012					<0.0002			
7/11/2012	<0.0002		<0.0002		<0.0002		<0.0002	
1/8/2013	<0.0002		<0.0002		<0.0002		<0.0002	
7/2/2013					<0.0002		<0.0002	
7/10/2013	<0.0002		<0.0002					
1/14/2014							<0.0002	
1/21/2014	<0.0002		<0.0002		<0.0002			
6/24/2014					<0.0002			
6/25/2014							<0.0002	
7/1/2014	<0.0002		<0.0002					
1/13/2015							<0.0002	
1/14/2015			<0.0002		<0.0002			
1/21/2015	<0.0002							
7/22/2015			3.99E-05 (J)		<0.0002		<0.0002	
7/28/2015	<0.0002							
1/27/2016	<0.0002		<0.0002		<0.0002		<0.0002	
3/29/2016	<0.0002							
3/30/2016			<0.0002		<0.0002		<0.0002	
5/25/2016	<0.0002		<0.0002		<0.0002		<0.0002	
7/26/2016	0.00012 (J)		0.00012 (J)		0.00012 (J)			
7/27/2016							8.9E-05 (J)	
9/15/2016	<0.0002		<0.0002					
9/16/2016							<0.0002	
9/20/2016					<0.0002			
11/17/2016	<0.0002		8.7E-05 (J)		<0.0002		<0.0002	
1/31/2017	9.6E-05 (J)							
2/1/2017			9.2E-05 (J)		0.00013 (J)		0.00015 (J)	
3/23/2017	<0.0002		<0.0002		<0.0002			
3/24/2017							<0.0002	
5/3/2017	<0.0002		<0.0002		<0.0002		<0.0002	
8/4/2017	<0.0002				<0.0002			
8/7/2017			<0.0002				<0.0002	
1/25/2018	<0.0002		<0.0002		<0.0002		<0.0002	
6/20/2018	<0.0002		8.5E-05 (J)		<0.0002		<0.0002	
1/22/2019		<0.0002		<0.0002		<0.0002		
1/25/2019								<0.0002
6/25/2019		<0.0002		<0.0002		<0.0002		<0.0002

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20
8/30/2011	<0.0002		<0.0002		<0.0002			
8/31/2011							<0.0002	
10/26/2011	<0.0002		<0.0002		<0.0002			
10/27/2011							<0.0002	
12/3/2011	<0.0002		<0.0002		<0.0002			
12/4/2011							<0.0002	
1/25/2012	<0.0002							
2/8/2012					<0.0002		<0.0002	
2/9/2012			<0.0002					
7/11/2012	<0.0002		<0.0002		<0.0002		<0.0002	
1/8/2013	<0.0002		<0.0002		<0.0002		<0.0002	
7/16/2013	<0.0002		<0.0002		<0.0002		<0.0002	
1/14/2014	<0.0002		<0.0002					
1/21/2014					<0.0002		<0.0002	
6/24/2014			<0.0002		<0.0002		<0.0002	
6/25/2014	<0.0002							
1/13/2015			<0.0002		<0.0002		<0.0002	
1/14/2015	<0.0002							
7/23/2015			<0.0002		<0.0002		<0.0002	
7/28/2015	<0.0002							
1/27/2016	<0.0002		<0.0002		<0.0002		<0.0002	
3/30/2016	<0.0002		<0.0002		<0.0002		<0.0002	
5/25/2016	<0.0002							
5/26/2016			<0.0002		<0.0002		<0.0002	
7/25/2016			0.00012 (J)		0.00013 (J)		0.00011 (J)	
7/27/2016	9.7E-05 (J)							
9/19/2016	<0.0002		<0.0002		<0.0002			
9/20/2016							<0.0002	
11/17/2016	<0.0002		<0.0002		<0.0002		<0.0002	
2/1/2017	0.0002		9.8E-05 (J)					
2/2/2017					0.00011 (J)		8.6E-05 (J)	
3/24/2017	<0.0002		<0.0002		<0.0002			
3/28/2017							<0.0002	
5/3/2017	<0.0002		<0.0002		<0.0002			
5/4/2017							<0.0002	
8/7/2017	<0.0002		<0.0002		<0.0002		<0.0002	
1/25/2018	<0.0002		<0.0002		<0.0002			
1/26/2018							<0.0002	
6/21/2018			<0.0002		<0.0002		<0.0002	
6/26/2018	<0.0002							
1/24/2019		<0.0002						
1/28/2019				<0.0002		<0.0002		<0.0002
6/25/2019		<0.0002						<0.0002
6/26/2019						<0.0002		
6/27/2019				<0.0002				

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24
8/31/2011	<0.0002							
9/15/2011			<0.0002					
9/16/2011					<0.0002			
10/27/2011	<0.0002							
10/29/2011			<0.0002		<0.0002			
12/4/2011	<0.0002							
12/13/2011			<0.0002		<0.0002			
1/25/2012			<0.0002					
1/31/2012					<0.0002			
2/8/2012	<0.0002							
7/17/2012	<0.0002							
7/18/2012			<0.0002		<0.0002			
1/9/2013	<0.0002							
1/22/2013			<0.0002		<0.0002			
7/16/2013	<0.0002		<0.0002					
7/23/2013					<0.0002			
1/21/2014	<0.0002		<0.0002					
1/22/2014					<0.0002			
6/24/2014	<0.0002							
6/25/2014			<0.0002					
7/1/2014					<0.0002			
7/8/2014							<0.0002	
1/13/2015	<0.0002							
1/14/2015			<0.0002					
1/22/2015					<0.0002			
7/23/2015	<0.0002		<0.0002					
7/29/2015					<0.0002			
7/31/2015							<0.0002	
1/20/2016							<0.0002	
1/21/2016					<0.0002			
1/26/2016	<0.0002		<0.0002					
3/29/2016					<0.0002			
3/30/2016	<0.0002						<0.0002	
3/31/2016			<0.0002					
5/25/2016					<0.0002		<0.0002	
5/26/2016	<0.0002		<0.0002					
7/26/2016	0.00013 (J)		0.00012 (J)					
7/27/2016					8.6E-05 (J)		9E-05 (J)	
9/16/2016							<0.0002	
9/20/2016	7.2E-05 (J)		0.00013 (J)		<0.0002			
11/17/2016	8.4E-05 (J)		<0.0002					
11/18/2016					<0.0002		<0.0002	
2/2/2017	0.00011 (J)							
2/3/2017			<0.0002		<0.0002		<0.0002	
3/28/2017	<0.0002		<0.0002		<0.0002			
3/29/2017							<0.0002	
5/3/2017			<0.0002					
5/4/2017	<0.0002				<0.0002		<0.0002	
8/7/2017	<0.0002							
8/8/2017			<0.0002		<0.0002		<0.0002	
1/25/2018			<0.0002		<0.0002		<0.0002	
1/26/2018	<0.0002							



# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24
6/20/2018	<0.0002		<0.0002		<0.0002			
6/27/2018							<0.0002	
1/24/2019		<0.0002		<0.0002				
1/25/2019						<0.0002		
1/31/2019								<0.0002
6/25/2019		<0.0002		<0.0002				
6/26/2019						<0.0002		<0.0002

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27	GWC-30	GWC-30
9/15/2011							<0.0002	
9/17/2011	<0.0002		<0.0002		<0.0002			
10/28/2011							<0.0002	
10/29/2011			<0.0002		<0.0002			
10/31/2011	<0.0002							
12/13/2011							<0.0002	
12/14/2011	<0.0002		<0.0002		<0.0002			
1/25/2012					<0.0002			
2/7/2012	<0.0002		<0.0002					
2/8/2012							<0.0002	
7/17/2012	<0.0002		<0.0002		<0.0002			
7/18/2012							<0.0002	
1/24/2013			<0.0002		<0.0002		<0.0002	
7/24/2013	<0.0002		<0.0002		<0.0002		<0.0002	
1/23/2014	<0.0002		<0.0002		<0.0002		<0.0002	
7/1/2014							<0.0002	
7/8/2014	<0.0002		<0.0002		<0.0002			
1/20/2015							<0.0002	
1/21/2015	<0.0002		<0.0002		<0.0002			
7/30/2015	<0.0002				<0.0002		<0.0002	
7/31/2015			<0.0002					
1/19/2016							<0.0002	
1/21/2016	<0.0002							
1/22/2016					<0.0002			
1/25/2016			<0.0002					
3/23/2016					<0.0002		<0.0002	
3/24/2016			<0.0002					
3/28/2016	<0.0002							
5/20/2016							<0.0002	
5/24/2016					<0.0002			
5/25/2016	<0.0002		<0.0002					
7/21/2016							8.6E-05 (J)	
7/26/2016			0.00012 (J)		0.00012 (J)			
7/27/2016	9.8E-05 (J)							
9/19/2016	<0.0002		<0.0002		<0.0002			
9/20/2016							<0.0002	
11/11/2016					<0.0002			
11/14/2016			<0.0002				<0.0002	
11/15/2016	<0.0002							
1/19/2017			<0.0002					
1/20/2017					<0.0002			
1/24/2017	<0.0002						<0.0002	
3/16/2017			0.00014 (J)		0.00015 (J)			
3/17/2017							0.00017 (J)	
3/23/2017	<0.0002							
4/28/2017					<0.0002			
5/1/2017			<0.0002				<0.0002	
5/2/2017	<0.0002							
8/3/2017	<0.0002		<0.0002		<0.0002			
8/4/2017							<0.0002	
1/19/2018					<0.0002			
1/22/2018			<0.0002					



# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33	GWC-34	GWC-34
9/15/2011			<0.0002					
9/16/2011					<0.0002		<0.0002	
9/17/2011	<0.0002							
10/30/2011					<0.0002			
10/31/2011	<0.0002		<0.0002				<0.0002	
12/12/2011							<0.0002	
12/13/2011			<0.0002		<0.0002			
2/1/2012			<0.0002		<0.0002		<0.0002	
2/7/2012	<0.0002							
7/16/2012							<0.0002	
7/17/2012			<0.0002		<0.0002			
1/22/2013							<0.0002	
1/23/2013	<0.0002		<0.0002		<0.0002			
7/17/2013					<0.0002		<0.0002	
7/24/2013			<0.0002					
1/23/2014	<0.0002		<0.0002		<0.0002		<0.0002	
6/25/2014							<0.0002	
7/1/2014	<0.0002		<0.0002					
1/14/2015							<0.0002	
1/20/2015			<0.0002		<0.0002			
1/21/2015	<0.0002							
7/29/2015					<0.0002		<0.0002	
7/30/2015			<0.0002					
1/21/2016							<0.0002	
1/25/2016	<0.0002		<0.0002		<0.0002			
3/23/2016			<0.0002		<0.0002			
3/24/2016							<0.0002	
3/30/2016	<0.0002							
5/23/2016							<0.0002	
5/24/2016			<0.0002		<0.0002			
5/25/2016	<0.0002							
7/21/2016							8.4E-05 (J)	
7/22/2016			<0.0002		<0.0002			
7/27/2016	0.0001 (J)							
9/15/2016							<0.0002	
9/16/2016			<0.0002		<0.0002			
11/15/2016			<0.0002				<0.0002	
11/17/2016					<0.0002			
1/25/2017	<0.0002				0.00012 (J)		0.00012 (J)	
1/26/2017			7.3E-05 (J)					
3/22/2017							7.9E-05 (J)	
3/23/2017	<0.0002				<0.0002			
3/24/2017			<0.0002					
5/1/2017					<0.0002		<0.0002	
5/2/2017	<0.0002		<0.0002					
7/19/2017	<0.0002							
8/3/2017			<0.0002				<0.0002	
8/4/2017	<0.0002				<0.0002			
1/23/2018	<0.0002		<0.0002		<0.0002		<0.0002	
6/20/2018							<0.0002	
6/26/2018			<0.0002		<0.0002			
6/27/2018	<0.0002							

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33	GWC-34	GWC-34
1/28/2019								<0.0002
1/30/2019				<0.0002		<0.0002		
1/31/2019		<0.0002						
6/26/2019		<0.0002				<0.0002		<0.0002
6/27/2019				<0.0002				

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7
8/31/2011			<0.0002		<0.0002			
9/7/2011							<0.0002	
9/16/2011	<0.0002							
10/27/2011			<0.0002					
10/30/2011					<0.0002		<0.0002	
10/31/2011	<0.0002							
12/5/2011			<0.0002		<0.0002		<0.0002	
12/12/2011	<0.0002							
1/25/2012			<0.0002		<0.0002		<0.0002	
2/1/2012	<0.0002							
7/16/2012	<0.0002							
7/18/2012			<0.0002				<0.0002	
7/24/2012					<0.0002			
1/7/2013							<0.0002	
1/8/2013					<0.0002			
1/9/2013			<0.0002					
1/22/2013	<0.0002							
7/2/2013	<0.0002							
7/9/2013					<0.0002		<0.0002	
7/17/2013			<0.0002					
1/14/2014							<0.0002	
1/15/2014			<0.0002		<0.0002			
1/21/2014	<0.0002							
6/24/2014							<0.0002	
6/25/2014	<0.0002		<0.0002		<0.0002			
1/13/2015			<0.0002					
1/14/2015	<0.0002							
1/20/2015					<0.0002		<0.0002	
7/24/2015			<0.0002		<0.0002			
7/27/2015							<0.0002	
7/28/2015	<0.0002							
1/20/2016			<0.0002		<0.0002			
1/21/2016	<0.0002							
1/26/2016							<0.0002	
3/24/2016	<0.0002							
3/28/2016			<0.0002		<0.0002			
3/29/2016							<0.0002	
5/23/2016	<0.0002		<0.0002					
5/24/2016					<0.0002		<0.0002	
7/21/2016	<0.0002		7.6E-05 (J)		9.1E-05 (J)			
7/22/2016							<0.0002	
9/15/2016	<0.0002		<0.0002		<0.0002		<0.0002	
11/15/2016	9.6E-05 (J)		<0.0002					
11/16/2016					<0.0002		<0.0002	
1/26/2017	<0.0002		<0.0002		<0.0002		8.8E-05 (J)	
3/22/2017	<0.0002		<0.0002		7.3E-05 (J)		<0.0002	
5/2/2017	<0.0002		<0.0002		<0.0002		<0.0002	
8/3/2017	<0.0002		<0.0002		<0.0002			
8/4/2017							<0.0002	
1/23/2018	<0.0002		<0.0002		<0.0002		<0.0002	
6/19/2018	<0.0002							
6/25/2018			<0.0002		<0.0002		<0.0002	

# Prediction Limit

Constituent: Mercury Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7
1/21/2019		<0.0002						<0.0002
1/30/2019				<0.0002		<0.0002		
6/25/2019								<0.0002
6/26/2019		<0.0002		<0.0002		<0.0002		

# Prediction Limit

Constituent: Mercury, Nickel Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1	GWA-2	GWA-2
9/7/2011	<0.0002		<0.0002					
9/16/2011					<0.0025			
9/17/2011							<0.0025	
10/27/2011					<0.0025		<0.0025	
10/30/2011	<0.0002		<0.0002					
12/4/2011			<0.0002					
12/5/2011	<0.0002							
12/13/2011					<0.0025			
12/14/2011							<0.0025	
1/19/2012	<0.0002		<0.0002					
1/31/2012					<0.0025			
2/7/2012							0.0028	
7/18/2012	<0.0002		<0.0002		<0.0025			
7/23/2012							<0.0025	
1/7/2013	<0.0002							
1/8/2013			<0.0002					
1/23/2013							<0.0025	
1/24/2013					<0.0025			
7/9/2013	<0.0002		<0.0002					
7/17/2013					<0.0025			
7/24/2013							<0.0025	
1/14/2014	0.000153 (J)		<0.0002					
1/21/2014					<0.0025			
1/22/2014							0.0013 (J)	
6/24/2014	<0.0002		<0.0002					
6/25/2014					<0.0025			
7/1/2014							0.0014 (J)	
1/14/2015					<0.0025			
1/20/2015	<0.0002		<0.0002					
1/22/2015							0.0017 (J)	
7/21/2015					<0.0025			
7/22/2015							0.0013 (J)	
7/27/2015	<0.0002		<0.0002					
1/20/2016							<0.0025	
1/21/2016					<0.0025			
1/26/2016	<0.0002		<0.0002					
3/29/2016	<0.0002		<0.0002					
5/24/2016	<0.0002		<0.0002					
7/25/2016			0.00012 (J)					
7/26/2016	0.00012 (J)							
9/19/2016	<0.0002		<0.0002					
11/16/2016	<0.0002		<0.0002					
1/19/2017					<0.0025		<0.0025	
1/26/2017	<0.0002							
1/31/2017			8.6E-05 (J)					
3/23/2017	7.2E-05 (J)		<0.0002					
5/2/2017			<0.0002					
5/3/2017	<0.0002							
8/2/2017							<0.0025	
8/3/2017					<0.0025			
8/7/2017	<0.0002		<0.0002					
1/19/2018					<0.0025		<0.0025	



# Prediction Limit

Constituent: Mercury, Nickel Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1	GWA-2	GWA-2
1/24/2018	<0.0002		<0.0002					
6/19/2018					<0.0025		<0.0025	
6/21/2018	<0.0002		<0.0002					
1/17/2019						0.00094 (J)		0.0011
1/22/2019		<0.0002		<0.0002				
6/24/2019						0.00095 (J)		0.0013
6/25/2019		<0.0002		<0.0002				

# Prediction Limit

Constituent: Nickel Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28	GWA-29	GWA-29	GWA-3	GWA-3	GWA-4	GWA-4
8/31/2011					<0.0025		<0.0025	
9/16/2011	<0.0025							
9/17/2011			0.0053					
10/27/2011							<0.0025	
10/28/2011	<0.0025		0.0042					
12/12/2011	<0.0025		<0.0025					
12/14/2011							<0.0025	
1/25/2012	<0.0025							
1/31/2012			0.0043					
2/1/2012							<0.0025	
7/16/2012	<0.0025							
7/17/2012			<0.0025					
7/23/2012							<0.0025	
1/23/2013							<0.0025	
1/24/2013	<0.0025		0.0052					
7/17/2013							<0.0025	
7/23/2013	<0.0025							
7/24/2013			0.0052					
1/15/2014							<0.0025	
1/22/2014	0.00092 (J)		0.0031					
6/25/2014					0.0044		<0.0025	
7/1/2014	<0.0025							
7/8/2014			0.0036 (D)					
1/21/2015	<0.0025		0.0026					
7/21/2015	<0.0025				0.0056		<0.0025	
7/22/2015			0.0028					
1/19/2016			0.0021 (JD)					
1/20/2016							0.002 (J)	
1/22/2016	<0.0025							
1/17/2017	<0.0025		0.0022 (J)					
8/1/2017	<0.0025		0.0018 (J)		<0.0025			
8/2/2017							<0.0025	
1/19/2018	<0.0025		<0.0025					
1/22/2018							<0.0025	
6/19/2018	<0.0025		0.0024 (J)				0.0022 (J)	
6/20/2018					<0.0025			
1/18/2019				0.0022		0.00087 (J)		
1/21/2019		0.0004 (J)						
6/24/2019								0.0022
6/25/2019		0.00088 (J)		0.0028		0.0021		

# Prediction Limit

Constituent: Nickel Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10	GWC-11	GWC-11	GWC-13	GWC-13	GWC-19	GWC-19
8/30/2011							<0.0025	
9/13/2011			<0.001		<0.0025			
10/26/2011							<0.0025	
10/28/2011			<0.001		<0.0025			
12/3/2011							<0.0025	
12/4/2011			<0.001		<0.0025			
1/24/2012					<0.0025			
2/8/2012							<0.0025	
2/9/2012			<0.001					
7/11/2012					<0.0025		<0.0025	
7/18/2012			<0.001					
1/8/2013			<0.001		<0.0025		<0.0025	
7/9/2013			<0.001					
7/10/2013					<0.0025			
7/16/2013							<0.0025	
1/15/2014			<0.001					
1/21/2014					<0.0025		<0.0025	
6/24/2014							<0.0025	
6/25/2014			<0.001					
7/1/2014					<0.0025			
1/13/2015							<0.0025	
1/21/2015			<0.001		<0.0025			
7/23/2015							<0.0025	
7/28/2015			<0.001		<0.0025			
1/25/2016	0.0017 (J)							
1/26/2016			<0.001					
1/27/2016					<0.0025		<0.0025	
1/31/2017			<0.001		<0.0025			
2/1/2017	0.0043							
2/2/2017							<0.0025	
8/4/2017					<0.0025			
8/7/2017			<0.001				<0.0025	
8/8/2017	0.0022 (J)							
1/24/2018			<0.001					
1/25/2018	0.0046				<0.0025		<0.0025	
6/20/2018			<0.001		<0.0025			
6/21/2018	0.0046						<0.0025	
1/22/2019						0.00033 (J)		
1/24/2019				0.00035 (J)				
1/28/2019								0.0009 (J)
1/31/2019		0.0018						
6/25/2019						0.00068 (J)		
6/26/2019		0.0014		<0.001				0.00051 (J)

# Prediction Limit

Constituent: Nickel Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25
8/31/2011	<0.0025							
9/16/2011			<0.001					
9/17/2011							<0.0025	
10/27/2011	<0.0025							
10/29/2011			<0.001					
10/31/2011							<0.0025	
12/4/2011	<0.0025							
12/13/2011			<0.001					
12/14/2011							<0.0025	
1/31/2012			<0.001					
2/7/2012							<0.0025	
2/8/2012	<0.0025							
7/17/2012	<0.0025						0.014	
7/18/2012			<0.001					
1/9/2013	<0.0025							
1/22/2013			<0.001					
7/16/2013	<0.0025							
7/23/2013			<0.001					
7/24/2013							0.019	
1/21/2014	<0.0025							
1/22/2014			<0.001					
1/23/2014							0.0036	
6/24/2014	<0.0025							
7/1/2014			<0.001					
7/8/2014					0.0022 (J)		0.011	
1/13/2015	<0.0025							
1/21/2015							0.0033	
1/22/2015			<0.001					
7/23/2015	<0.0025							
7/29/2015			<0.001					
7/30/2015							0.0054	
7/31/2015					0.0018 (J)			
1/20/2016					0.0027			
1/21/2016			<0.001				0.0054	
1/26/2016	<0.0025							
1/24/2017							0.012	
2/2/2017	<0.0025							
2/3/2017			<0.001		0.0025			
8/3/2017							<0.0025	
8/7/2017	<0.0025							
8/8/2017			<0.001		0.0036			
1/25/2018			<0.001		0.0022 (J)		0.0071	
1/26/2018	<0.0025							
6/20/2018	<0.0025		<0.001					
6/27/2018					<0.0025		0.0072	
1/24/2019		0.00051 (J)						0.0027
1/25/2019				0.00044 (J)				
1/31/2019						0.0018		
6/25/2019		0.00085 (J)						0.0021
6/26/2019			<0.001			0.0016		



# Prediction Limit

Constituent: Nickel Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5
8/31/2011							<0.0025	
9/16/2011	<0.0025		<0.0025		0.0037			
10/27/2011							<0.0025	
10/30/2011	<0.0025							
10/31/2011			<0.0025		0.0047			
12/5/2011							<0.0025	
12/12/2011			<0.0025		0.0048			
12/13/2011	<0.0025							
1/25/2012							<0.0025	
2/1/2012	<0.0025		<0.0025		0.0027			
7/16/2012			<0.0025		0.0035			
7/17/2012	<0.0025							
7/18/2012							0.0043	
1/9/2013							0.0082	
1/22/2013			<0.0025		0.003			
1/23/2013	<0.0025							
7/2/2013					0.0027			
7/17/2013	<0.0025		<0.0025				0.0076	
1/15/2014							0.0083	
1/21/2014					0.002 (J)			
1/23/2014	0.00078 (J)		0.00062 (J)					
6/25/2014			<0.0025		0.0026		0.0079	
1/13/2015							0.0072	
1/14/2015			<0.0025		0.0021 (J)			
1/20/2015	<0.0025							
7/24/2015							0.0083	
7/28/2015					0.0016 (J)			
7/29/2015	<0.0025		<0.0025					
1/20/2016							0.007	
1/21/2016			<0.0025		0.0017 (J)			
1/25/2016	<0.0025							
1/25/2017	<0.0025		<0.0025					
1/26/2017					<0.0025		0.0066	
8/3/2017			0.012		<0.0025		0.0088	
8/4/2017	<0.0025							
1/23/2018	<0.0025		<0.0025		<0.0025		0.0074	
6/19/2018					<0.0025			
6/20/2018			<0.0025					
6/25/2018							0.0053	
6/26/2018	<0.0025							
1/21/2019						0.0011		
1/28/2019				0.00047 (J)				
1/30/2019		0.00054 (J)						0.0032
6/26/2019		0.00068 (J)		0.00047 (J)		0.0013		0.0051

# Prediction Limit

Constituent: Nickel Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9
8/31/2011	0.0072							
9/7/2011			<0.0025		<0.0025			
10/30/2011	0.0055		<0.0025		<0.0025		<0.0025	
12/4/2011							0.0072	
12/5/2011	0.0026		<0.0025		<0.0025			
1/19/2012					<0.0025		0.0053	
1/25/2012	<0.0025		<0.0025					
7/18/2012			0.013		<0.0025		0.012	
7/24/2012	0.003							
1/7/2013			0.019		0.0025			
1/8/2013	0.0036						0.014	
7/9/2013	0.0038		0.018		0.0027		0.015	
1/14/2014			0.017		0.0039		0.015	
1/15/2014	0.0049							
6/24/2014			0.016		0.0014 (J)		0.0091	
6/25/2014	0.0037							
1/20/2015	0.0035		0.015		0.0026		0.014	
7/24/2015	0.0048							
7/27/2015			0.013		<0.0025		0.011	
1/20/2016	0.0044							
1/26/2016			0.012		0.002 (J)		0.0096	
1/26/2017	0.005		0.011		0.0034			
1/31/2017							0.055	
8/3/2017	0.0051							
8/4/2017			0.011					
8/7/2017							0.0093	
1/23/2018	0.0054		0.0071					
1/24/2018					0.0023 (J)		0.01	
6/21/2018					0.0031		0.0083	
6/25/2018	0.0056		0.011					
1/21/2019				0.0077				
1/22/2019						0.0025		0.008
1/30/2019		0.0057						
6/25/2019				0.01		0.0053		0.01
6/26/2019		0.0052						

# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-28	GWA-28	GWA-29	GWA-29	GWA-4	GWA-4
8/31/2011							<0.005	
9/16/2011	<0.005		<0.005					
9/17/2011					<0.005			
10/27/2011	<0.005						<0.005	
10/28/2011			<0.005		<0.005			
12/12/2011			<0.005		<0.005			
12/13/2011	<0.005							
12/14/2011							<0.005	
1/25/2012			<0.005					
1/31/2012	<0.005				<0.005			
2/1/2012							<0.005	
7/16/2012			<0.005					
7/17/2012					<0.005			
7/18/2012	<0.005							
7/23/2012							<0.005	
1/23/2013							<0.005	
1/24/2013	<0.005		<0.005		<0.005			
7/17/2013	<0.005						<0.005	
7/23/2013			<0.005					
7/24/2013					<0.005			
1/15/2014							<0.005	
1/21/2014	<0.005							
1/22/2014			<0.005		<0.005			
6/25/2014	<0.005						<0.005	
7/1/2014			<0.005					
7/8/2014					<0.005 (D)			
1/14/2015	<0.005						<0.005	
1/21/2015			<0.005		<0.005			
7/21/2015	<0.005		<0.005				<0.005	
7/22/2015					<0.005			
1/19/2016					<0.005 (D)			
1/20/2016							<0.005	
1/21/2016	<0.005							
1/22/2016			<0.005					
3/22/2016			<0.005		<0.005			
3/23/2016	<0.005						<0.005	
5/19/2016					<0.005		<0.005	
5/20/2016	<0.005							
5/23/2016			<0.005					
7/21/2016	<0.005				0.00045 (J)		<0.005	
7/25/2016			0.0004 (J)					
9/14/2016							<0.005	
9/15/2016	<0.005		<0.005					
11/9/2016			<0.005					
11/10/2016							<0.005	
11/11/2016	<0.005							
1/17/2017			<0.005		<0.005		<0.005	
1/19/2017	<0.005							
3/16/2017	<0.005		<0.005				<0.005	
4/27/2017			<0.005		<0.005		<0.005	
4/28/2017	<0.005							
7/18/2017					<0.005			



# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-28	GWA-28	GWA-29	GWA-29	GWA-4	GWA-4
8/1/2017			<0.005		<0.005 (*)			
8/2/2017							<0.005	
8/3/2017	<0.005							
1/19/2018	<0.005		0.00073 (J)		0.00027 (J)			
1/22/2018							<0.005	
6/19/2018	0.00054 (J)		<0.005		0.00051 (J)		0.00086 (J)	
1/17/2019		<0.005						<0.005
1/18/2019						<0.005		
1/21/2019				<0.005				
6/24/2019		<0.005						<0.005
6/25/2019				<0.005		<0.005		

# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14
9/13/2011	<0.005		<0.005		<0.005		<0.005	
10/27/2011							<0.005	
10/28/2011	<0.005		<0.005		<0.005			
12/3/2011							<0.005	
12/4/2011	<0.005		<0.005		<0.005			
1/24/2012			<0.005		<0.005		<0.005	
2/9/2012	<0.005							
7/11/2012			<0.005		<0.005		<0.005	
7/18/2012	<0.005							
1/8/2013	<0.005		<0.005		<0.005		<0.005	
7/9/2013	<0.005							
7/10/2013			<0.005		<0.005		<0.005	
1/15/2014	<0.005							
1/21/2014			<0.005		<0.005		<0.005	
6/25/2014	<0.005							
7/1/2014			<0.005		<0.005		<0.005	
1/14/2015							<0.005	
1/21/2015	<0.005		<0.005		<0.005			
7/22/2015							<0.005	
7/28/2015	<0.005		<0.005		<0.005			
1/26/2016	<0.005		<0.005					
1/27/2016					<0.005		0.0071	
3/29/2016	<0.005		<0.005		<0.005			
3/30/2016							0.00273 (J)	
4/20/2016							<0.005	
5/25/2016	<0.005		<0.005		<0.005		<0.005	
7/22/2016			<0.005					
7/25/2016	0.00041 (J)							
7/26/2016					<0.005		<0.005	
9/15/2016			<0.005		<0.005		<0.005	
9/19/2016	0.00084 (J)							
11/16/2016	<0.005		<0.005					
11/17/2016					<0.005		0.00047 (J)	
1/31/2017	0.00033 (J)		<0.005		<0.005			
2/1/2017							<0.005	
3/23/2017	<0.005		<0.005		0.0021		<0.005	
5/2/2017	<0.005							
5/3/2017			<0.005		<0.005		<0.005	
8/4/2017					<0.005			
8/7/2017	<0.005		0.00032 (J)				0.00088 (J)	
1/24/2018	<0.005		<0.005					
1/25/2018					<0.005		0.00025 (J)	
6/20/2018	0.00026 (J)				<0.005		0.0017	
6/26/2018			<0.005					
1/22/2019						<0.005		<0.005
1/24/2019		<0.005						
1/25/2019				<0.005				
6/25/2019						<0.005		<0.005
6/26/2019		<0.005		<0.005				

# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15	GWC-16	GWC-16	GWC-18	GWC-18	GWC-21	GWC-21
8/30/2011			<0.005		<0.005			
8/31/2011							<0.005	
9/16/2011	<0.005							
10/26/2011			<0.005		<0.005			
10/27/2011	<0.005						<0.005	
12/3/2011	<0.005		<0.005		<0.005			
12/4/2011							<0.005	
1/25/2012			<0.005					
2/8/2012							<0.005	
2/9/2012	<0.005				<0.005			
7/11/2012	<0.005		<0.005		<0.005			
7/17/2012							<0.005	
1/8/2013	<0.005		<0.005		<0.005			
1/9/2013							<0.005	
7/2/2013	<0.005		<0.005					
7/16/2013					<0.005		<0.005	
1/14/2014			<0.005		<0.005			
1/21/2014	<0.005						<0.005	
6/24/2014	<0.005				<0.005		<0.005	
6/25/2014			<0.005					
1/13/2015			<0.005		<0.005		<0.005	
1/14/2015	<0.005							
7/22/2015	<0.005		<0.005					
7/23/2015					<0.005		<0.005	
1/26/2016							<0.005	
1/27/2016	<0.005		<0.005		<0.005			
3/30/2016	<0.005		<0.005		<0.005		<0.005	
5/25/2016	<0.005		<0.005					
5/26/2016					<0.005		<0.005	
7/25/2016					0.00073 (J)			
7/26/2016	<0.005						<0.005	
7/27/2016			0.00029 (J)					
9/16/2016			<0.005					
9/19/2016					<0.005			
9/20/2016	<0.005						<0.005	
11/17/2016	<0.005		<0.005		<0.005		<0.005	
2/1/2017	<0.005		<0.005		<0.005			
2/2/2017							<0.005	
3/23/2017	<0.005							
3/24/2017			<0.005		<0.005			
3/28/2017							<0.005	
5/3/2017	<0.005		<0.005		<0.005			
5/4/2017							<0.005	
8/4/2017	<0.005							
8/7/2017			<0.005		<0.005		<0.005	
1/25/2018	<0.005		<0.005		<0.005			
1/26/2018							<0.005	
6/20/2018	0.00027 (J)		<0.005				0.00046 (J)	
6/21/2018					<0.005			
1/22/2019		<0.005						
1/24/2019								<0.005
1/25/2019				<0.005				

# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-15	GWC-15	GWC-16	GWC-16	GWC-18	GWC-18	GWC-21	GWC-21
1/28/2019						<0.005		
6/25/2019		<0.005		<0.005				<0.005
6/27/2019						<0.005		

# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27
9/15/2011	<0.005							
9/17/2011			<0.005		<0.005		<0.005	
10/29/2011	<0.005				<0.005		<0.005	
10/31/2011			<0.005					
12/13/2011	<0.005							
12/14/2011			<0.005		<0.005		<0.005	
1/25/2012	<0.005						<0.005	
2/7/2012			<0.005		<0.005			
7/17/2012			<0.005		<0.005		<0.005	
7/18/2012	<0.005							
1/22/2013	<0.005							
1/24/2013					<0.005		<0.005	
7/16/2013	<0.005							
7/24/2013			<0.005		<0.005		<0.005	
1/21/2014	<0.005							
1/23/2014			<0.005		<0.005		<0.005	
6/25/2014	<0.005							
7/8/2014			<0.005		<0.005		<0.005	
1/14/2015	<0.005							
1/21/2015			<0.005		<0.005		<0.005	
7/23/2015	<0.005							
7/30/2015			<0.005				<0.005	
7/31/2015					<0.005			
1/21/2016			<0.005					
1/22/2016							<0.005	
1/25/2016					<0.005			
1/26/2016	<0.005							
3/23/2016							<0.005	
3/24/2016					<0.005			
3/28/2016			<0.005					
3/31/2016	<0.005							
5/24/2016							<0.005	
5/25/2016			<0.005		<0.005			
5/26/2016	<0.005							
7/26/2016	<0.005				<0.005		<0.005	
7/27/2016			0.00033 (J)					
9/19/2016			<0.005		<0.005		<0.005	
9/20/2016	<0.005							
11/11/2016							<0.005	
11/14/2016					<0.005			
11/15/2016			<0.005					
11/17/2016	<0.005							
1/19/2017					<0.005			
1/20/2017							0.00045 (J)	
1/24/2017			<0.005					
2/3/2017	<0.005							
3/16/2017					<0.005		<0.005	
3/23/2017			<0.005					
3/28/2017	<0.005							
4/28/2017							<0.005	
5/1/2017					0.0018			
5/2/2017			<0.005					



# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
9/15/2011	<0.005				<0.005			
9/16/2011							<0.005	
9/17/2011			<0.005					
10/28/2011	<0.005							
10/30/2011							<0.005	
10/31/2011			<0.005		<0.005			
12/13/2011	<0.005				<0.005		<0.005	
2/1/2012					<0.005		<0.005	
2/7/2012			<0.005					
2/8/2012	<0.005							
7/17/2012					<0.005		<0.005	
7/18/2012	<0.005							
1/23/2013			<0.005		<0.005		<0.005	
1/24/2013	<0.005							
7/17/2013							<0.005	
7/24/2013	<0.005				<0.005			
1/23/2014	<0.005		<0.005		<0.005		<0.005	
7/1/2014	<0.005		<0.005		<0.005			
1/20/2015	<0.005				<0.005		<0.005	
1/21/2015			<0.005					
7/29/2015							<0.005	
7/30/2015	<0.005				<0.005			
1/19/2016	<0.005							
1/25/2016			<0.005		<0.005		<0.005	
3/23/2016	<0.005				<0.005		<0.005	
3/30/2016			<0.005					
5/20/2016	<0.005							
5/24/2016					<0.005		<0.005	
5/25/2016			<0.005					
7/21/2016	0.0003 (J)							
7/22/2016					0.00025 (J)		0.00074 (J)	
7/27/2016			0.00095 (J)					
9/16/2016					<0.005		<0.005	
9/20/2016	<0.005							
11/14/2016	<0.005							
11/15/2016					<0.005			
11/17/2016							<0.005	
1/24/2017	<0.005							
1/25/2017			0.00035 (J)				<0.005	
1/26/2017					<0.005			
3/17/2017	<0.005							
3/23/2017			<0.005				<0.005	
3/24/2017					<0.005			
5/1/2017	<0.005						0.00084 (J)	
5/2/2017			<0.005		<0.005			
7/19/2017			0.00068 (J)					
8/3/2017					<0.005			
8/4/2017	<0.005 (*)		<0.005 (*)				<0.005 (*)	
1/23/2018			0.001 (J)		<0.005		0.001 (J)	
1/24/2018	0.00067 (J)							
6/21/2018	<0.005							
6/26/2018					<0.005		0.00085 (J)	

# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
6/27/2018			0.00044 (J)					
1/30/2019		<0.005				<0.005		<0.005
1/31/2019				<0.005				
6/26/2019				<0.005				<0.005
6/27/2019		<0.005				<0.005		



# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6	GWC-8	GWC-8
8/31/2011			<0.005		<0.005			
9/7/2011							<0.005	
9/16/2011	<0.005							
10/27/2011			<0.005					
10/30/2011					<0.005		<0.005	
10/31/2011	<0.005							
12/5/2011			<0.005		<0.005		<0.005	
12/12/2011	<0.005							
1/19/2012							<0.005	
1/25/2012			<0.005		<0.005			
2/1/2012	<0.005							
7/16/2012	<0.005							
7/18/2012			<0.005				<0.005	
7/24/2012					<0.005			
1/7/2013							<0.005	
1/8/2013					<0.005			
1/9/2013			<0.005					
1/22/2013	<0.005							
7/2/2013	<0.005							
7/9/2013					<0.005		<0.005	
7/17/2013			<0.005					
1/14/2014							<0.005	
1/15/2014			<0.005		<0.005			
1/21/2014	<0.005							
6/24/2014							<0.005	
6/25/2014	<0.005		<0.005		<0.005			
1/13/2015			<0.005					
1/14/2015	<0.005							
1/20/2015					<0.005		<0.005	
7/24/2015			<0.005		<0.005			
7/27/2015							<0.005	
7/28/2015	<0.005							
1/20/2016			<0.005		<0.005			
1/21/2016	<0.005							
1/26/2016							<0.005	
3/24/2016	<0.005							
3/28/2016			<0.005		<0.005			
3/29/2016							<0.005	
5/23/2016	<0.005		<0.005					
5/24/2016					<0.005		<0.005	
7/21/2016	<0.005		0.00025 (J)		<0.005			
7/26/2016							<0.005	
9/15/2016	<0.005		<0.005		<0.005			
9/19/2016							<0.005	
11/15/2016	<0.005		<0.005					
11/16/2016					0.00031 (J)		<0.005	
1/26/2017	<0.005		<0.005		<0.005		<0.005	
3/22/2017	<0.005		<0.005		<0.005			
3/23/2017							<0.005	
5/2/2017	<0.005		<0.005		<0.005			
5/3/2017							0.0018	
8/3/2017	<0.005		<0.005		<0.005			

# Prediction Limit

Constituent: Selenium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6	GWC-8	GWC-8
8/7/2017							0.00068 (J)	
1/23/2018	<0.005		<0.005		<0.005			
1/24/2018							0.00025 (J)	
6/19/2018	0.00025 (J)							
6/21/2018							0.00029 (J)	
6/25/2018			0.0008 (J)		0.0008 (J)			
1/21/2019		<0.005						
1/22/2019								<0.005
1/30/2019				<0.005		<0.005		
6/25/2019								<0.005
6/26/2019		<0.005		<0.005		<0.005		

# Prediction Limit

Constituent: Selenium, Silver Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9	GWA-29	GWA-29	GWC-10	GWC-10	GWC-11	GWC-11
9/13/2011							<0.001	
9/17/2011			<0.0025					
10/28/2011			<0.0025				<0.001	
10/30/2011	<0.005							
12/4/2011	<0.005						<0.001	
12/12/2011			<0.0025					
1/19/2012	<0.005							
1/31/2012			<0.0025					
2/9/2012							<0.001	
7/17/2012			<0.0025					
7/18/2012	<0.005						<0.001	
1/8/2013	<0.005						<0.001	
1/24/2013			<0.0025					
7/9/2013	<0.005						<0.001	
7/24/2013			0.003					
1/14/2014	<0.005							
1/15/2014							<0.001	
1/22/2014			0.0011 (J)					
6/24/2014	<0.005						<0.001	
6/25/2014							<0.001	
7/8/2014			0.0013 (JD)					
1/20/2015	<0.005							
1/21/2015			0.00071 (J)				<0.001	
7/22/2015			0.00059 (J)					
7/27/2015	<0.005							
7/28/2015							<0.001	
1/19/2016			0.0011 (JD)					
1/25/2016					<0.001			
1/26/2016	<0.005						<0.001	
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							
1/17/2017			0.0015					
1/31/2017	0.00053 (J)						<0.001	
2/1/2017					<0.001			
3/23/2017	<0.005							
5/2/2017	<0.005							
8/1/2017			0.00098 (J)					
8/7/2017	0.0009 (J)						<0.001	
8/8/2017					<0.001			
1/19/2018			0.00081 (J)					
1/24/2018	0.00052 (J)						<0.001	
1/25/2018					<0.001			
6/19/2018			0.0009 (J)					
6/20/2018							<0.001	
6/21/2018	0.00063 (J)				<0.001			
1/18/2019				0.00061 (J)				
1/22/2019		<0.005						
1/24/2019								0.00033 (J)
1/31/2019						0.0055		

# Prediction Limit

Constituent: Selenium, Silver Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-9	GWC-9	GWA-29	GWA-29	GWC-10	GWC-10	GWC-11	GWC-11
6/25/2019		<0.005		0.0017				
6/26/2019						<0.001		<0.001

# Prediction Limit

Constituent: Silver Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12	GWC-14	GWC-14	GWC-16	GWC-16	GWC-17	GWC-17
8/30/2011					<0.001		<0.001	
9/13/2011	<0.001		<0.001					
10/26/2011					<0.001			
10/27/2011			<0.001				<0.001	
10/28/2011	<0.001							
12/3/2011			<0.001		<0.001		<0.001	
12/4/2011	<0.001							
1/24/2012	<0.001		<0.001					
1/25/2012					<0.001		<0.001	
7/11/2012	<0.001		<0.001		<0.001		<0.001	
1/8/2013	<0.001		<0.001		<0.001		<0.001	
7/2/2013					<0.001			
7/10/2013	<0.001		<0.001					
7/16/2013							<0.001	
1/14/2014					<0.001		<0.001	
1/21/2014	<0.001		<0.001					
6/25/2014					<0.001		<0.001	
7/1/2014	<0.001		<0.001					
1/13/2015					<0.001			
1/14/2015			<0.001				<0.001	
1/21/2015	<0.001							
7/22/2015			<0.001		<0.001			
7/28/2015	<0.001						<0.001	
1/26/2016	<0.001							
1/27/2016			0.00078 (J)		<0.001		<0.001	
1/31/2017	<0.001							
2/1/2017			<0.001		<0.001		<0.001	
8/7/2017	<0.001		<0.001		<0.001		<0.001	
1/24/2018	<0.001							
1/25/2018			<0.001		<0.001		<0.001	
6/20/2018			<0.001		<0.001			
6/26/2018	<0.001						<0.001	
1/22/2019				<0.001				
1/24/2019								0.00047 (J)
1/25/2019		0.00017 (J)				0.00035 (J)		
6/25/2019				<0.001		<0.001		<0.001
6/26/2019		<0.001						

# Prediction Limit

Constituent: Silver Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24
8/31/2011	<0.001							
9/15/2011			<0.001					
9/16/2011					<0.001			
10/27/2011	<0.001							
10/29/2011			<0.001		<0.001			
12/4/2011	<0.001							
12/13/2011			<0.001		<0.001			
1/25/2012			<0.001					
1/31/2012					<0.001			
2/8/2012	<0.001							
7/17/2012	<0.001							
7/18/2012			<0.001		<0.001			
1/9/2013	<0.001							
1/22/2013			<0.001		<0.001			
7/16/2013	<0.001		<0.001					
7/23/2013					<0.001			
1/21/2014	<0.001		<0.001					
1/22/2014					<0.001			
6/24/2014	<0.001							
6/25/2014			<0.001					
7/1/2014					<0.001			
7/8/2014							<0.001	
1/13/2015	<0.001							
1/14/2015			<0.001					
1/22/2015					<0.001			
7/23/2015	<0.001		<0.001					
7/29/2015					<0.001			
7/31/2015							<0.001	
1/20/2016							<0.001	
1/21/2016					<0.001			
1/26/2016	<0.001		<0.001					
2/2/2017	<0.001							
2/3/2017			<0.001		<0.001		<0.001	
8/7/2017	<0.001							
8/8/2017			<0.001		<0.001		<0.001	
1/25/2018			<0.001		<0.001		<0.001	
1/26/2018	<0.001							
6/20/2018	<0.001		<0.001		<0.001			
6/27/2018							<0.001	
1/24/2019		0.00063 (J)		0.00038 (J)				
1/25/2019						0.00039 (J)		
1/31/2019								0.00069 (J)
6/25/2019		<0.001		<0.001				
6/26/2019						<0.001		<0.001

# Prediction Limit

Constituent: Silver Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27	GWC-31	GWC-31
9/17/2011	<0.001		<0.001				<0.001	
10/29/2011			<0.001		<0.001			
10/31/2011	<0.001						<0.001	
12/14/2011	<0.001		<0.001		<0.001			
1/25/2012					<0.001			
2/7/2012	<0.001		<0.001				<0.001	
7/17/2012	<0.001		<0.001		<0.001			
1/23/2013							<0.001	
1/24/2013			<0.001		<0.001			
7/24/2013	<0.001		<0.001		<0.001			
1/23/2014	<0.001		<0.001		<0.001		0.00034 (J)	
7/8/2014	<0.001		<0.001		<0.001			
1/21/2015	<0.001		<0.001		<0.001		<0.001	
7/30/2015	<0.001				<0.001			
7/31/2015			<0.001					
1/21/2016	<0.001							
1/22/2016					<0.001			
1/25/2016			<0.001				<0.001	
1/19/2017			<0.001					
1/20/2017					<0.001			
1/24/2017	<0.001							
1/25/2017							0.00087	
8/3/2017	<0.001		<0.001		<0.001			
8/4/2017							0.0005 (J)	
1/19/2018					<0.001			
1/22/2018			<0.001					
1/23/2018							0.00023 (J)	
1/25/2018	<0.001							
6/27/2018	<0.001		<0.001		<0.001		0.00016 (J)	
1/24/2019		0.00034 (J)		0.00019 (J)		0.00061 (J)		
1/31/2019								0.00036 (J)
6/25/2019		<0.001		<0.001				
6/26/2019						<0.001		<0.001

# Prediction Limit

Constituent: Silver Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32	GWC-33	GWC-33	GWC-5	GWC-5	GWC-6	GWC-6
8/31/2011					<0.001		<0.001	
9/15/2011	<0.001							
9/16/2011			<0.001					
10/27/2011					<0.001			
10/30/2011			<0.001				<0.001	
10/31/2011	<0.001							
12/5/2011					<0.001		<0.001	
12/12/2011			<0.001					
12/13/2011	<0.001							
1/25/2012					<0.001		<0.001	
2/1/2012	<0.001		<0.001					
7/17/2012	<0.001		<0.001					
7/18/2012					<0.001			
7/24/2012							<0.001	
1/8/2013							<0.001	
1/9/2013					<0.001			
1/23/2013	<0.001		<0.001					
7/9/2013							<0.001	
7/17/2013			<0.001		<0.001			
7/24/2013	<0.001							
1/15/2014					<0.001		<0.001	
1/23/2014	<0.001		<0.001					
6/25/2014					<0.001		<0.001	
7/1/2014	<0.001							
1/13/2015					<0.001			
1/20/2015	<0.001		<0.001				<0.001	
7/24/2015					<0.001		<0.001	
7/29/2015			<0.001					
7/30/2015	<0.001							
1/20/2016					<0.001		0.00051 (J)	
1/25/2016	<0.001		<0.001					
1/25/2017			<0.001					
1/26/2017	<0.001				<0.001		<0.001	
8/3/2017	<0.001				<0.001		<0.001	
8/4/2017			<0.001					
1/23/2018	<0.001		<0.001		<0.001		<0.001	
6/25/2018					<0.001		<0.001	
6/26/2018	<0.001		<0.001					
1/30/2019		0.00019 (J)		0.00035 (J)		0.00016 (J)		0.0032
6/26/2019				<0.001		<0.001		<0.001
6/27/2019		<0.001						



# Prediction Limit

Constituent: Thallium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-4	GWA-4	GWC-14	GWC-14	GWC-19	GWC-19
8/30/2011							<0.001	
8/31/2011			<0.001					
9/13/2011					<0.001			
9/16/2011	<0.0005							
10/26/2011							<0.001	
10/27/2011	<0.0005		<0.001		<0.001			
12/3/2011					<0.001		<0.001	
12/13/2011	<0.0005							
12/14/2011			<0.001					
1/24/2012					<0.001			
1/31/2012	<0.0005							
2/1/2012			<0.001					
2/8/2012							<0.001	
7/11/2012					<0.001		<0.001	
7/18/2012	<0.0005							
7/23/2012			<0.001					
1/8/2013					<0.001		<0.001	
1/23/2013			<0.001					
1/24/2013	<0.0005							
7/10/2013					<0.001			
7/16/2013							<0.001	
7/17/2013	<0.0005		<0.001					
1/15/2014			<0.001					
1/21/2014	<0.0005				0.0002 (J)		0.0001 (J)	
6/24/2014							<0.001	
6/25/2014	<0.0005		<0.001					
7/1/2014					0.0001			
1/13/2015							<0.001	
1/14/2015	<0.0005		0.0001 (J)		0.0002 (J)			
7/21/2015	<0.0005		0.0001 (J)					
7/22/2015					0.003 (J)			
7/23/2015							<0.001	
1/20/2016			<0.001					
1/21/2016	<0.0005							
1/27/2016					0.000616 (J)		<0.001	
3/23/2016	<0.0005		<0.001					
3/30/2016					0.000411 (J)		<0.001	
5/19/2016			<0.001					
5/20/2016	<0.0005							
5/25/2016					0.000445 (J)			
5/26/2016							<0.001	
7/21/2016	<0.0005		<0.001					
7/25/2016							<0.001	
7/26/2016					0.0013			
9/14/2016			<0.001					
9/15/2016	<0.0005				0.00033 (J)			
9/19/2016							<0.001	
11/10/2016			<0.001					
11/11/2016	<0.0005							
11/17/2016					0.00041 (J)		<0.001	
1/17/2017			<0.001					
1/19/2017	<0.0005							



# Prediction Limit

Constituent: Thallium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-33	GWC-33	GWC-35	GWC-35	GWC-6	GWC-6
8/31/2011							<0.001	
9/16/2011			<0.0005		<0.0005			
9/17/2011	<0.0005							
10/29/2011	<0.0005							
10/30/2011			<0.0005				<0.001	
10/31/2011					<0.0005			
12/5/2011							<0.001	
12/12/2011			<0.0005		<0.0005			
12/14/2011	<0.0005							
1/25/2012	<0.0005						<0.001	
2/1/2012			<0.0005		<0.0005			
7/16/2012					<0.0005			
7/17/2012	<0.0005		<0.0005					
7/23/2012							<0.001	
7/24/2012							<0.001	
1/8/2013							<0.001	
1/22/2013					<0.0005			
1/23/2013			<0.0005					
1/24/2013	<0.0005							
7/2/2013					<0.0005			
7/9/2013							<0.001	
7/17/2013			<0.0005					
7/24/2013	<0.0005							
1/15/2014							<0.001	
1/21/2014					<0.0005			
1/23/2014	0.0001 (J)		0.0002 (J)					
6/25/2014					0.0001		<0.001	
7/8/2014	0.0001							
1/14/2015					<0.0005			
7/24/2015							7E-05 (J)	
1/20/2016							6.7E-05 (J)	
1/21/2016					<0.0005			
1/22/2016	0.000193 (J)							
1/25/2016			0.000227 (J)					
3/23/2016	<0.0005		<0.0005					
3/24/2016					<0.0005			
3/28/2016							<0.001	
5/23/2016					<0.0005			
5/24/2016	<0.0005		0.000242 (J)				<0.001	
7/21/2016					<0.0005		<0.001	
7/22/2016			0.00022 (J)					
7/26/2016	0.00017 (J)							
9/15/2016					<0.0005		<0.001	
9/16/2016			0.00021 (J)					
9/19/2016	0.00016 (J)							
11/11/2016	<0.0005							
11/15/2016					<0.0005			
11/16/2016							0.00012 (J)	
11/17/2016			0.00017 (J)					
1/20/2017	0.00016 (J)							
1/25/2017			<0.0005					
1/26/2017					<0.0005		<0.001	

# Prediction Limit

Constituent: Thallium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-33	GWC-33	GWC-35	GWC-35	GWC-6	GWC-6
3/16/2017	0.00017 (J)							
3/22/2017					<0.0005		<0.001	
3/23/2017			0.00017 (J)					
4/28/2017	0.00018 (J)							
5/1/2017			0.00018 (J)					
5/2/2017					<0.0005		<0.001	
8/3/2017	0.00016 (J)				<0.0005		<0.001	
8/4/2017			0.00016 (J)					
1/19/2018	0.00016 (J)							
1/23/2018			0.00012 (J)		<0.0005		<0.001	
6/19/2018					<0.0005			
6/25/2018							0.00011 (J)	
6/26/2018			0.00013 (J)					
6/27/2018	0.00015 (J)							
1/21/2019						<0.0005		
1/24/2019		0.0002 (J)						
1/30/2019				<0.0005				<0.001
6/26/2019		0.00019 (J)		0.0002 (J)		0.00019 (J)		<0.001



# Prediction Limit

Constituent: Thallium, Vanadium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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6/25/2019	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1
		<0.001		<0.001		<0.001		

# Prediction Limit

Constituent: Vanadium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29	GWA-3	GWA-3
8/31/2011							<0.0025	
9/16/2011			<0.0025					
9/17/2011	<0.0025				<0.0025			
10/27/2011	<0.0025							
10/28/2011			<0.0025		<0.0025			
12/12/2011			<0.0025		<0.0025			
12/14/2011	<0.0025							
1/25/2012			<0.0025					
1/31/2012					<0.0025			
2/7/2012	<0.0025							
7/16/2012			<0.0025					
7/17/2012					<0.0025			
7/23/2012	<0.0025							
1/23/2013	<0.0025							
1/24/2013			<0.0025		<0.0025			
7/23/2013			<0.0025					
7/24/2013	<0.0025				<0.0025			
1/22/2014	<0.0025		0.00072 (J)		<0.0025			
6/25/2014							<0.0025	
7/1/2014	0.0012 (J)		<0.0025					
7/8/2014					<0.0025 (D)			
1/21/2015			<0.0025		<0.0025			
1/22/2015	0.0013 (J)							
7/21/2015			<0.0025				<0.0025	
7/22/2015	<0.0025				<0.0025			
1/19/2016					<0.0025 (D)			
1/20/2016	<0.0025							
1/22/2016			<0.0025					
1/17/2017			<0.0025		<0.0025			
1/19/2017	<0.0025							
8/1/2017			<0.0025		<0.0025 (*)		<0.0025	
8/2/2017	<0.0025							
1/19/2018	<0.0025		<0.0025		<0.0025			
6/19/2018	0.0024 (J)		<0.0025		0.0014 (J)			
6/20/2018							<0.0025	
1/17/2019		0.0016						
1/18/2019						0.0015		0.0019
1/21/2019				0.0012				
6/24/2019		0.0018						
6/25/2019				0.0025		0.0023		0.0028

# Prediction Limit

Constituent: Vanadium Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11	GWC-13	GWC-13
8/31/2011	<0.0025							
9/13/2011					0.0064		<0.0025	
10/27/2011	<0.0025							
10/28/2011					<0.0025		<0.0025	
12/4/2011					<0.0025		<0.0025	
12/14/2011	<0.0025							
1/24/2012							<0.0025	
2/1/2012	<0.0025							
2/9/2012					<0.0025			
7/11/2012							<0.0025	
7/18/2012					0.0062			
7/23/2012	<0.0025							
1/8/2013					<0.0025		<0.0025	
1/23/2013	<0.0025							
7/9/2013					0.0053			
7/10/2013							<0.0025	
7/17/2013	<0.0025							
1/15/2014	0.0016 (J)				0.0064			
1/21/2014							<0.0025	
6/25/2014	0.00084 (J)				0.0064			
7/1/2014							<0.0025	
1/14/2015	0.0014 (J)							
1/21/2015					0.0059		<0.0025	
7/21/2015	<0.0025							
7/28/2015					0.0054		<0.0025	
1/20/2016	<0.0025							
1/25/2016			<0.0025					
1/26/2016					0.0019 (J)			
1/27/2016							<0.0025	
1/17/2017	<0.0025							
1/31/2017					0.0029		0.0015 (J)	
2/1/2017			0.0032					
8/2/2017	<0.0025							
8/4/2017							<0.0025	
8/7/2017					0.0024 (J)			
8/8/2017			<0.0025					
1/22/2018	0.002 (J)							
1/24/2018					<0.0025			
1/25/2018			0.003				<0.0025	
6/19/2018	0.0019 (J)							
6/20/2018					0.003		<0.0025	
6/21/2018			0.0018 (J)					
1/17/2019		0.0016						
1/22/2019								0.0015
1/24/2019						0.0032		
1/31/2019				0.0015				
6/24/2019		0.002						
6/25/2019								0.0021
6/26/2019				0.0014		0.0035		



# Prediction Limit

Constituent: Vanadium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17
8/30/2011					0.0028		<0.0025	
9/13/2011	<0.001							
9/16/2011			<0.0025					
10/26/2011					<0.005			
10/27/2011	<0.001		<0.0025				<0.0025	
12/3/2011	<0.001		<0.0025		<0.005		<0.0025	
1/24/2012	<0.001							
1/25/2012					<0.005		<0.0025	
2/8/2012			<0.0025					
7/11/2012	<0.001		<0.0025		<0.005		<0.0025	
1/8/2013	<0.001		<0.0025		<0.005		<0.0025	
7/2/2013			<0.0025		<0.005			
7/10/2013	<0.001							
7/16/2013							<0.0025	
1/14/2014					0.0036 (J)		0.0019 (J)	
1/21/2014	<0.001		<0.0025					
6/24/2014			<0.0025					
6/25/2014					0.0033 (J)		0.001 (J)	
7/1/2014	<0.001							
1/13/2015					0.0037 (J)			
1/14/2015	<0.001		<0.0025				0.0014 (J)	
7/22/2015	<0.001		<0.0025		0.0031 (J)			
7/28/2015							0.0027 (J)	
1/27/2016	<0.001		<0.0025		0.0035 (J)		0.0018 (J)	
2/1/2017	0.002 (J)		0.0016 (J)		0.0067		0.0044	
8/4/2017			<0.0025					
8/7/2017	<0.001				0.005		<0.0025	
1/25/2018	<0.001		0.003		0.0058		0.0042	
6/20/2018	0.0016 (J)		<0.0025		0.0039			
6/26/2018							0.0023 (J)	
1/22/2019		<0.001		0.0012				
1/24/2019								0.0027
1/25/2019						0.0052		
6/25/2019		0.0014		0.0019		0.0056		0.005

# Prediction Limit

Constituent: Vanadium Analysis Run 8/9/2019 3:18 PM View: State IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20	GWC-21	GWC-21
8/30/2011	<0.0025		<0.001					
8/31/2011					0.0035		<0.001	
10/26/2011	<0.0025		<0.001					
10/27/2011					<0.005		<0.001	
12/3/2011	<0.0025		<0.001					
12/4/2011					<0.005		<0.001	
2/8/2012	<0.0025		<0.001		<0.005		<0.001	
7/11/2012	<0.0025		<0.001		<0.005			
7/17/2012							<0.001	
1/8/2013	<0.0025		<0.001		<0.005			
1/9/2013							<0.001	
7/16/2013	<0.0025		<0.001		<0.005		<0.001	
1/14/2014	0.0022 (J)							
1/21/2014			<0.001		<0.005		<0.001	
6/24/2014	<0.0025		<0.001		0.00089 (J)		<0.001	
1/13/2015	0.00084 (J)		<0.001		0.0013 (J)		<0.001	
7/23/2015	<0.0025		0.0016 (J)		0.0027 (J)		<0.001	
1/26/2016							<0.001	
1/27/2016	0.00096 (J)		<0.001		0.0012 (J)			
2/2/2017			0.0015 (J)		0.0031		0.0028	
8/7/2017	<0.0025		0.0016 (J)		0.0041		0.0014 (J)	
1/25/2018	<0.0025		0.0021 (J)					
1/26/2018					0.0044		<0.001	
6/20/2018							<0.001	
6/21/2018	<0.0025		<0.001		0.0017 (J)			
1/24/2019								<0.001
1/28/2019				<0.001		0.0019		
6/25/2019						0.0038		0.0021
6/26/2019				0.0023				
6/27/2019		0.0031						

# Prediction Limit

Constituent: Vanadium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25
9/15/2011	0.005							
9/16/2011			<0.0025					
10/29/2011	<0.01		<0.0025					
10/31/2011							<0.0025	
12/13/2011	<0.01		<0.0025					
12/14/2011							<0.0025	
1/25/2012	<0.01							
1/31/2012			<0.0025					
2/7/2012							<0.0025	
7/17/2012							<0.0025	
7/18/2012	0.0074		<0.0025					
1/22/2013	0.0071		<0.0025					
7/16/2013	0.0075							
7/23/2013			<0.0025					
7/24/2013							<0.0025	
1/21/2014	0.0061							
1/22/2014			<0.0025					
1/23/2014							0.00082 (J)	
6/25/2014	0.007							
7/1/2014			<0.0025					
7/8/2014					<0.0025		<0.0025	
1/14/2015	0.0063							
1/21/2015							0.0013 (J)	
1/22/2015			<0.0025					
7/23/2015	0.0066							
7/29/2015			0.0011 (J)					
7/30/2015							0.0018 (J)	
7/31/2015					<0.0025			
1/20/2016					<0.0025			
1/21/2016			<0.0025				0.0017 (J)	
1/26/2016	0.0058							
2/3/2017	0.0082		0.0016 (J)		0.0015 (J)			
8/3/2017							<0.0025	
8/8/2017	0.0058		<0.0025		<0.0025			
1/25/2018	0.0063		0.0014 (J)		<0.0025		<0.0025	
6/20/2018	0.006		<0.0025					
6/27/2018					<0.0025		<0.0025	
1/24/2019		0.0065						0.0018
1/25/2019				0.0012				
1/31/2019						0.0015		
6/25/2019		0.0092						0.0019
6/26/2019				0.0019		0.0014		

# Prediction Limit

Constituent: Vanadium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32
9/15/2011			<0.0025				<0.0025	
9/17/2011	<0.0025				<0.0025			
10/28/2011			<0.0025					
10/29/2011	<0.0025							
10/31/2011					<0.0025		<0.0025	
12/13/2011			<0.0025				<0.0025	
12/14/2011	<0.0025							
2/1/2012							<0.0025	
2/7/2012	<0.0025				<0.0025			
2/8/2012			<0.0025					
7/17/2012	<0.0025						<0.0025	
7/18/2012			<0.0025					
1/23/2013					<0.0025		<0.0025	
1/24/2013	<0.0025		<0.0025					
7/24/2013	<0.0025		<0.0025				<0.0025	
1/23/2014	<0.0025		<0.0025		0.00068 (J)		<0.0025	
7/1/2014			<0.0025		<0.0025		<0.0025	
7/8/2014	<0.0025							
1/20/2015			<0.0025				<0.0025	
1/21/2015	<0.0025				<0.0025			
7/30/2015			<0.0025				<0.0025	
7/31/2015	<0.0025							
1/19/2016			0.001 (J)					
1/25/2016	<0.0025				<0.0025		<0.0025	
1/19/2017	<0.0025							
1/24/2017			0.0059					
1/25/2017					0.0043			
1/26/2017							0.0016 (J)	
8/3/2017	<0.0025						<0.0025	
8/4/2017			0.0018 (J)		<0.0025			
1/22/2018	<0.0025							
1/23/2018					0.0023 (J)		0.003	
1/24/2018			<0.0025					
6/21/2018			0.0031					
6/26/2018							<0.0025	
6/27/2018	<0.0025				<0.0025			
1/24/2019		0.0013						
1/30/2019				0.0021				0.0012
1/31/2019						0.0014		
6/25/2019		0.0024						
6/26/2019						0.0015		
6/27/2019				0.0029				0.0021

# Prediction Limit

Constituent: Vanadium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5
8/31/2011							<0.005	
9/16/2011	<0.0025		<0.001		<0.0025			
10/27/2011							<0.005	
10/30/2011	<0.0025							
10/31/2011			<0.001		<0.0025			
12/5/2011							<0.005	
12/12/2011	<0.0025		<0.001		<0.0025			
1/25/2012							<0.005	
2/1/2012	<0.0025		<0.001		<0.0025			
7/16/2012			<0.001		<0.0025			
7/17/2012	<0.0025							
7/18/2012							<0.005	
1/9/2013							<0.005	
1/22/2013			<0.001		<0.0025			
1/23/2013	<0.0025							
7/2/2013					<0.0025			
7/17/2013	<0.0025		<0.001				<0.005	
1/15/2014							0.0042 (J)	
1/21/2014					<0.0025			
1/23/2014	<0.0025		<0.001					
6/25/2014			<0.001		<0.0025		0.0022 (J)	
1/13/2015							0.004 (J)	
1/14/2015			<0.001		<0.0025			
1/20/2015	<0.0025							
7/24/2015							0.0021 (J)	
7/28/2015					<0.0025			
7/29/2015	<0.0025		<0.001					
1/20/2016							0.0035 (J)	
1/21/2016			<0.001		<0.0025			
1/25/2016	<0.0025							
1/25/2017	0.0052		0.0055					
1/26/2017					0.0026		0.0064	
8/3/2017			<0.001		<0.0025		0.0031	
8/4/2017	<0.0025							
1/23/2018	0.003		<0.001		0.0022 (J)		0.0062	
6/19/2018					0.0019 (J)			
6/20/2018			<0.001					
6/25/2018							0.0021 (J)	
6/26/2018	<0.0025							
1/21/2019						0.0011		
1/28/2019				<0.001				
1/30/2019		0.0014						0.0031
6/26/2019		0.0017		0.002		0.0015		0.0033

# Prediction Limit

Constituent: Vanadium Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9
8/31/2011	<0.0025							
9/7/2011			<0.0025		<0.0025		<0.0025	
10/30/2011	<0.0025		<0.0025		<0.0025		<0.0025	
12/4/2011							<0.0025	
12/5/2011	<0.0025		<0.0025		<0.0025			
1/19/2012					<0.0025		<0.0025	
1/25/2012	<0.0025		<0.0025					
7/18/2012			<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	
7/9/2013	<0.0025		<0.0025		<0.0025		<0.0025	
1/14/2014			<0.0025		<0.0025		0.0022 (J)	
1/15/2014	0.002 (J)							
6/24/2014			0.00087 (J)		0.0014 (J)		0.0022 (J)	
6/25/2014	<0.0025							
1/20/2015	<0.0025		0.00094 (J)		0.0013 (J)		0.0025 (J)	
7/24/2015	<0.0025							
7/27/2015			<0.0025		<0.0025		0.0024 (J)	
1/20/2016	<0.0025							
1/26/2016			0.0011 (J)		<0.0025		<0.0025	
1/26/2017	0.0064		0.0057		0.0038			
1/31/2017							<0.0025	
8/3/2017	<0.0025							
8/4/2017			<0.0025					
8/7/2017					<0.0025		<0.0025	
1/23/2018	0.0038		0.0042					
1/24/2018					<0.0025		<0.0025	
6/21/2018					0.0015 (J)		<0.0025	
6/25/2018	<0.0025		0.0035					
1/21/2019				0.003				
1/22/2019						0.0015		0.0014
1/30/2019		0.0015						
6/25/2019				0.0035		0.0026		0.002
6/26/2019		0.0016						

# Prediction Limit

Constituent: Zinc Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29
9/16/2011	0.0071				0.003			
9/17/2011			0.0061				0.026	
10/27/2011	0.0062		0.0059					
10/28/2011					0.0073		0.019	
12/12/2011					0.0053		0.02	
12/13/2011	0.0065							
12/14/2011			0.0077					
1/25/2012					0.0046			
1/31/2012	0.0047						0.036	
2/7/2012			0.0053					
7/16/2012					0.0034			
7/17/2012							0.015	
7/18/2012	0.0044							
7/23/2012			0.0043					
1/23/2013			0.0054					
1/24/2013	0.0058				0.0049		0.048	
7/17/2013	0.0028							
7/23/2013					0.0026			
7/24/2013			0.004				0.048	
1/21/2014	0.0037							
1/22/2014			0.0056		0.0052		0.044	
6/25/2014	0.0026							
7/1/2014			0.004		0.0042			
7/8/2014							0.04 (D)	
1/14/2015	0.003							
1/21/2015					0.0038		0.037	
1/22/2015			0.0051					
7/21/2015	0.0033				0.0042			
7/22/2015			0.0033				0.031	
1/19/2016							0.035 (D)	
1/20/2016			0.0029					
1/21/2016	0.0043							
1/22/2016					0.0041			
1/17/2017					<0.02		0.024	
1/19/2017	0.0077 (J)		<0.02					
8/1/2017					<0.02		0.028	
8/2/2017			<0.02					
8/3/2017	<0.02							
1/19/2018	<0.02		<0.02		<0.02		0.024	
6/19/2018	0.0068 (J)		<0.02		<0.02		0.028	
1/17/2019		0.0037 (J)		0.0024 (J)				
1/18/2019								0.022
1/21/2019						0.0065		
6/24/2019		0.0048 (J)		0.0046 (J)				
6/25/2019						0.011		0.041

# Prediction Limit

Constituent: Zinc Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11
8/31/2011	0.0037		<0.005					
9/13/2011							<0.005	
10/27/2011			<0.005					
10/28/2011							<0.005	
12/4/2011							0.0025	
12/14/2011			<0.005					
2/1/2012			<0.005					
2/9/2012							<0.005	
7/23/2012			0.0037					
1/8/2013							<0.005	
1/23/2013			<0.005					
7/9/2013							<0.005	
7/17/2013			<0.005					
1/15/2014			0.00085 (J)				0.00052 (J)	
6/25/2014	0.015		0.0014 (J)				0.00089 (J)	
1/14/2015			0.0082					
1/21/2015							<0.005	
7/21/2015	0.042		0.0015 (J)					
7/28/2015							0.0021 (J)	
1/20/2016			0.0093					
1/25/2016					0.0027			
1/26/2016							<0.005	
1/31/2017							<0.005	
2/1/2017					<0.02			
8/1/2017	<0.02							
8/2/2017			<0.005					
8/7/2017							<0.005	
8/8/2017					<0.02			
1/22/2018			<0.005					
1/24/2018							<0.005	
1/25/2018					<0.02			
6/19/2018			<0.005					
6/20/2018	<0.02						<0.005	
6/21/2018					<0.02			
1/17/2019				<0.005				
1/18/2019		0.0088						
1/24/2019								<0.005
1/31/2019						0.0039 (J)		
6/24/2019				0.0036 (J)				
6/25/2019		0.014						
6/26/2019						0.0044 (J)		<0.005



# Prediction Limit

Constituent: Zinc Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15
9/13/2011	<0.005		<0.005		0.0039			
9/16/2011							<0.005	
10/27/2011					0.0046		<0.005	
10/28/2011	<0.005		<0.005					
12/3/2011					0.0028		<0.005	
12/4/2011	0.0027		0.0028					
1/24/2012	<0.005		<0.005		0.0033			
2/9/2012							<0.005	
7/11/2012	<0.005		<0.005		<0.0025		<0.005	
1/8/2013	<0.005		<0.005		<0.0025		<0.005	
7/2/2013							<0.005	
7/10/2013	<0.005		<0.005		<0.0025			
1/21/2014	0.0019 (J)		0.0026		0.0036		0.0017 (J)	
6/24/2014							<0.005	
7/1/2014			0.0014 (J)		0.0018 (J)			
1/14/2015					0.0035		0.0013 (J)	
1/21/2015	<0.005		0.0018 (J)					
7/22/2015					0.005		<0.005	
7/28/2015	<0.005		<0.005					
1/26/2016	<0.005							
1/27/2016			<0.005		0.0094		<0.005	
1/31/2017	<0.005		<0.005					
2/1/2017					0.0084 (J)		<0.005	
8/4/2017			<0.005				<0.005	
8/7/2017	<0.005				0.012 (J)			
1/24/2018	<0.005							
1/25/2018			<0.005		0.0095 (J)		<0.005	
6/20/2018			<0.005		0.012 (J)		<0.005	
6/26/2018	<0.005							
1/22/2019				<0.005		0.0094		<0.005
1/25/2019		<0.005						
6/25/2019				<0.005		0.014		<0.005
6/26/2019		<0.005						

# Prediction Limit

Constituent: Zinc Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19
8/30/2011			0.0035		<0.005		0.0035	
10/26/2011	0.0035		0.0032		0.0025		0.0054	
12/3/2011	0.0033		0.0027		0.0027		0.0046	
1/25/2012	<0.005		<0.005					
2/8/2012							<0.02	
2/9/2012					<0.005			
7/11/2012	<0.005		<0.005		<0.005		<0.02	
1/8/2013	<0.005		<0.005		<0.005		<0.02	
7/2/2013	<0.005							
7/16/2013			<0.005		<0.005		<0.02	
1/14/2014	0.00074 (J)		0.0021 (J)		0.0005 (J)			
1/21/2014							0.0025	
6/24/2014					0.00099 (J)		0.0014 (J)	
6/25/2014	0.00071 (J)		0.0012 (J)					
1/13/2015	0.0015 (J)				0.00063 (J)		0.0019 (J)	
1/14/2015			0.0015 (J)					
7/22/2015	<0.005							
7/23/2015					<0.005		0.0025	
7/28/2015			<0.005					
1/27/2016	<0.005		<0.005		<0.005		<0.02	
2/1/2017	<0.005		<0.005		<0.005			
2/2/2017							<0.02	
8/7/2017	<0.005		<0.005		<0.005		<0.02	
1/25/2018	<0.005		<0.005		<0.005		<0.02	
6/20/2018	<0.005							
6/21/2018					<0.005		<0.02	
6/26/2018			<0.005					
1/24/2019				<0.005				
1/25/2019		<0.005						
1/28/2019						0.0033 (J)		0.0049 (J)
6/25/2019		<0.005		<0.005				
6/26/2019								0.0038 (J)
6/27/2019						<0.005		



# Prediction Limit

Constituent: Zinc Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27
9/17/2011			0.0028		0.0061		0.0044	
10/29/2011					0.0038		0.0049	
10/31/2011			0.003					
12/14/2011			0.0029		0.0033		0.0057	
1/25/2012							0.0051	
2/7/2012			0.0092		0.0036			
7/17/2012			0.01		0.0028			
1/24/2013					<0.005		0.0041	
7/24/2013			0.033		<0.005		0.0036	
1/23/2014			0.015					
7/8/2014	0.0043		0.011		0.0048		0.0032	
1/21/2015			0.0057		0.0022 (J)		0.0039	
7/30/2015			0.0072				0.0033	
7/31/2015	0.0052				<0.005			
1/20/2016	0.0086							
1/21/2016			0.017					
1/22/2016							0.012	
1/25/2016					0.0035			
1/20/2017							<0.005	
1/24/2017			0.0085 (J)					
2/3/2017	0.0094 (J)							
8/3/2017			<0.02		<0.005		<0.005	
8/8/2017	0.0098 (J)							
1/19/2018							<0.005	
1/22/2018					<0.005			
1/25/2018	<0.02		0.009 (J)					
6/27/2018	<0.02		0.0086 (J)		<0.005		<0.005	
1/24/2019				0.013		<0.005		0.0041 (J)
1/31/2019		0.006						
6/25/2019				0.01		0.0045 (J)		
6/26/2019		0.0062						<0.005

# Prediction Limit

Constituent: Zinc Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33
9/15/2011	<0.005				0.11			
9/16/2011							0.0033	
9/17/2011			0.02					
10/28/2011	0.0062							
10/30/2011							0.0071	
10/31/2011			0.028		0.099			
12/13/2011	0.003				0.11		0.0062	
2/1/2012					0.1		0.0033	
2/7/2012			0.0091					
2/8/2012	0.009							
7/17/2012					0.084		0.0083	
7/18/2012	<0.005							
1/23/2013			0.014		0.06		0.0038	
1/24/2013	0.0066							
7/17/2013							0.0059	
7/24/2013	<0.005				0.073			
1/23/2014	0.0028		0.012		0.038		0.008	
7/1/2014	0.0014 (J)		0.015		0.054			
1/20/2015	<0.005				0.033		0.0058	
1/21/2015			0.0081					
7/29/2015							0.0049	
7/30/2015	<0.005				0.029			
1/19/2016	<0.005							
1/25/2016			0.0067		0.037		0.0046	
1/24/2017	<0.005							
1/25/2017			<0.02				<0.02	
1/26/2017					0.07			
8/3/2017					0.059			
8/4/2017	<0.005		0.033				<0.02	
1/23/2018			0.026		0.065		<0.02	
1/24/2018	<0.005							
6/21/2018	<0.005							
6/26/2018					0.047		<0.02	
6/27/2018			0.012 (J)					
1/30/2019		<0.005				0.053		0.0096
1/31/2019				0.008				
6/26/2019				0.011				0.0056
6/27/2019		<0.005				0.082		

# Prediction Limit

Constituent: Zinc Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6
8/31/2011					<0.005		0.0037	
9/16/2011	0.0029		0.006					
10/27/2011					0.0025			
10/30/2011							0.0043	
10/31/2011	<0.005		0.0055					
12/5/2011					<0.005		0.0047	
12/12/2011	0.0027		0.006					
1/25/2012					<0.005		<0.005	
2/1/2012	<0.005		0.0046					
7/16/2012	<0.005		0.0038					
7/18/2012					<0.005			
7/24/2012							<0.005	
1/8/2013							<0.005	
1/9/2013					<0.005			
1/22/2013	<0.005		0.0028					
7/2/2013			0.0025					
7/9/2013							<0.005	
7/17/2013	<0.005				0.0043			
1/15/2014					0.0023 (J)		0.0034	
1/21/2014			0.0036					
1/23/2014	0.0034							
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							<0.005	
7/24/2015					0.002 (J)		0.0017 (J)	
7/28/2015			0.0016 (J)					
7/29/2015	<0.005							
1/20/2016					0.0022 (J)		0.0018 (J)	
1/21/2016	<0.005		0.0016 (J)					
1/25/2017	<0.005							
1/26/2017			<0.005		<0.005		<0.005	
8/3/2017	<0.005		<0.005		<0.005		<0.005	
1/23/2018	<0.005		<0.005		<0.005		<0.005	
6/19/2018			<0.005					
6/20/2018	<0.005							
6/25/2018					<0.005		<0.005	
1/21/2019				<0.005				
1/28/2019		0.0031 (J)						
1/30/2019						<0.005		<0.005
6/26/2019		<0.005		<0.005		<0.005		0.0033 (J)

# Prediction Limit

Constituent: Zinc Analysis Run 8/9/2019 3:18 PM View: State Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7	GWC-8	GWC-8	GWC-9	GWC-9
9/7/2011	<0.005		0.0029			
10/30/2011	<0.005		<0.005		0.004	
12/4/2011					0.0086	
12/5/2011	<0.005		0.004			
1/19/2012			0.0029		0.0081	
1/25/2012	<0.005					
7/18/2012	0.0035		0.006		0.0058	
1/7/2013	0.0033		<0.005			
1/8/2013					0.0034	
7/9/2013	0.0035		<0.005		<0.005	
1/14/2014	0.0022 (J)		0.002 (J)		0.003	
6/24/2014			0.0011 (J)		0.0016 (J)	
1/20/2015	0.0018 (J)		0.0018 (J)		0.0021 (J)	
7/27/2015	<0.005		0.0015 (J)		<0.005	
1/26/2016	0.0016 (J)		<0.005		<0.005	
1/26/2017	<0.005		<0.005			
1/31/2017					<0.005	
8/4/2017	<0.005					
8/7/2017			0.0086 (J)		<0.005	
1/23/2018	<0.005					
1/24/2018			<0.005		<0.005	
6/21/2018			<0.005		<0.005	
6/25/2018	<0.005					
1/21/2019		<0.005				
1/22/2019				<0.005		<0.005
6/25/2019		<0.005		0.0043 (J)		0.005

## Trend Test Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 8/9/2019, 3:35 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1 (bg)	-0.0003189	-106	-101	Yes	25	0	n/a	0.02	NP
Barium (mg/L)	GWA-4 (bg)	0.008194	132	101	Yes	25	0	n/a	0.02	NP
Barium (mg/L)	GWC-21	0.002709	140	101	Yes	25	0	n/a	0.02	NP
Beryllium (mg/L)	GWA-28 (bg)	-0.00003524	-109	-101	Yes	25	40	n/a	0.02	NP
Beryllium (mg/L)	GWC-32	0.00005233	103	101	Yes	25	28	n/a	0.02	NP
Chloride (mg/L)	GWA-1 (bg)	-0.04716	-46	-44	Yes	14	0	n/a	0.02	NP
Cobalt (mg/L)	GWC-14	0.02337	126	95	Yes	24	12.5	n/a	0.02	NP
Copper (mg/L)	GWA-29 (bg)	-0.001097	-75	-63	Yes	18	16.67	n/a	0.02	NP
Nickel (mg/L)	GWA-29 (bg)	-0.0002766	-71	-63	Yes	18	16.67	n/a	0.02	NP
Nickel (mg/L)	GWC-14	0.001894	114	68	Yes	19	36.84	n/a	0.02	NP
pH (S.U.)	GWA-28 (bg)	-0.1167	-62	-48	Yes	15	0	n/a	0.02	NP
pH (S.U.)	GWA-3 (bg)	-0.277	-21	-17	Yes	7	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-12	1.741	63	44	Yes	14	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-5	4.356	46	44	Yes	14	0	n/a	0.02	NP
Zinc (mg/L)	GWC-14	0.001159	80	63	Yes	18	16.67	n/a	0.02	NP



# Trend Test All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 8/9/2019, 3:35 PM

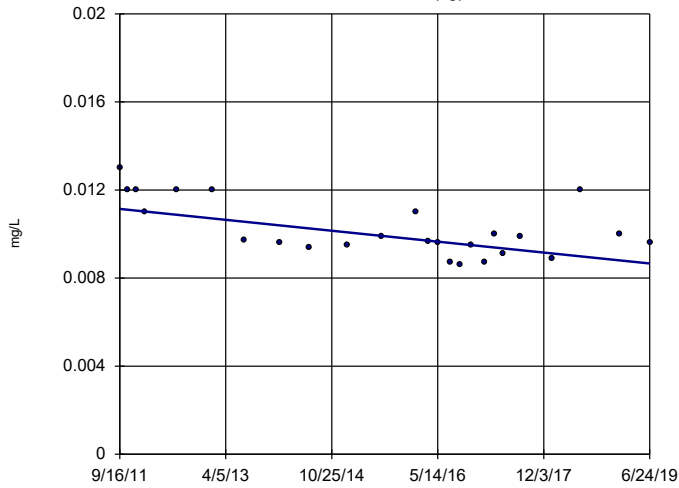
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
<b>Barium (mg/L)</b>	<b>GWA-1 (bg)</b>	<b>-0.0003189</b>	<b>-106</b>	<b>-101</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Barium (mg/L)	GWA-2 (bg)	0	-1	-101	No	25	0	n/a	0.02	NP
Barium (mg/L)	GWA-28 (bg)	0	-1	-101	No	25	40	n/a	0.02	NP
Barium (mg/L)	GWA-29 (bg)	-0.00008839	-66	-89	No	23	13.04	n/a	0.02	NP
Barium (mg/L)	GWA-3 (bg)	0	-1	-31	No	11	0	n/a	0.02	NP
<b>Barium (mg/L)</b>	<b>GWA-4 (bg)</b>	<b>0.008194</b>	<b>132</b>	<b>101</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
<b>Barium (mg/L)</b>	<b>GWC-21</b>	<b>0.002709</b>	<b>140</b>	<b>101</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Beryllium (mg/L)	GWA-1 (bg)	0	-43	-101	No	25	88	n/a	0.02	NP
Beryllium (mg/L)	GWA-2 (bg)	0	-13	-101	No	25	88	n/a	0.02	NP
<b>Beryllium (mg/L)</b>	<b>GWA-28 (bg)</b>	<b>-0.00003524</b>	<b>-109</b>	<b>-101</b>	<b>Yes</b>	<b>25</b>	<b>40</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Beryllium (mg/L)	GWA-29 (bg)	0.00002491	26	89	No	23	8.696	n/a	0.02	NP
Beryllium (mg/L)	GWA-3 (bg)	0	0	31	No	11	100	n/a	0.02	NP
Beryllium (mg/L)	GWA-4 (bg)	0	0	101	No	25	100	n/a	0.02	NP
<b>Beryllium (mg/L)</b>	<b>GWC-32</b>	<b>0.00005233</b>	<b>103</b>	<b>101</b>	<b>Yes</b>	<b>25</b>	<b>28</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Boron (mg/L)	GWA-1 (bg)	0	-13	-44	No	14	92.86	n/a	0.02	NP
Boron (mg/L)	GWA-2 (bg)	0	0	44	No	14	100	n/a	0.02	NP
Boron (mg/L)	GWA-28 (bg)	0	0	44	No	14	100	n/a	0.02	NP
Boron (mg/L)	GWA-29 (bg)	0	2	39	No	13	92.31	n/a	0.02	NP
Boron (mg/L)	GWA-3 (bg)	0	0	20	No	8	100	n/a	0.02	NP
Boron (mg/L)	GWA-4 (bg)	0	0	44	No	14	100	n/a	0.02	NP
Boron (mg/L)	GWC-14	0.08655	16	44	No	14	0	n/a	0.02	NP
<b>Chloride (mg/L)</b>	<b>GWA-1 (bg)</b>	<b>-0.04716</b>	<b>-46</b>	<b>-44</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Chloride (mg/L)	GWA-2 (bg)	0.206	24	44	No	14	0	n/a	0.02	NP
Chloride (mg/L)	GWA-28 (bg)	-0.05925	-42	-44	No	14	0	n/a	0.02	NP
Chloride (mg/L)	GWA-29 (bg)	-0.09333	-21	-39	No	13	0	n/a	0.02	NP
Chloride (mg/L)	GWA-3 (bg)	0.9173	3	17	No	7	14.29	n/a	0.02	NP
Chloride (mg/L)	GWA-4 (bg)	-0.7878	-13	-44	No	14	0	n/a	0.02	NP
Chloride (mg/L)	GWC-14	6.117	21	44	No	14	0	n/a	0.02	NP
Chromium (mg/L)	GWA-1 (bg)	0	23	101	No	25	88	n/a	0.02	NP
Chromium (mg/L)	GWA-2 (bg)	0	-70	-101	No	25	84	n/a	0.02	NP
Chromium (mg/L)	GWA-28 (bg)	0	-20	-101	No	25	80	n/a	0.02	NP
Chromium (mg/L)	GWA-29 (bg)	0	2	89	No	23	78.26	n/a	0.02	NP
Chromium (mg/L)	GWA-3 (bg)	0	-3	-31	No	11	72.73	n/a	0.02	NP
Chromium (mg/L)	GWA-4 (bg)	0	-5	-101	No	25	84	n/a	0.02	NP
Chromium (mg/L)	GWC-16	0	21	84	No	22	0	n/a	0.02	NP
Chromium (mg/L)	GWC-17	0	24	101	No	25	88	n/a	0.02	NP
Chromium (mg/L)	GWC-22	0	-1	-101	No	25	56	n/a	0.02	NP
Chromium (mg/L)	GWC-24	0	0	53	No	16	81.25	n/a	0.02	NP
Chromium (mg/L)	GWC-26	0	24	101	No	25	88	n/a	0.02	NP
Chromium (mg/L)	GWC-5	0	-9	-95	No	24	79.17	n/a	0.02	NP
Chromium (mg/L)	GWC-6	0	1	95	No	24	91.67	n/a	0.02	NP
Chromium (mg/L)	GWC-9	0	22	101	No	25	44	n/a	0.02	NP
Cobalt (mg/L)	GWA-1 (bg)	0	-60	-101	No	25	84	n/a	0.02	NP
Cobalt (mg/L)	GWA-2 (bg)	0	-81	-101	No	25	72	n/a	0.02	NP
Cobalt (mg/L)	GWA-28 (bg)	0	0	101	No	25	100	n/a	0.02	NP
Cobalt (mg/L)	GWA-29 (bg)	0	-22	-89	No	23	95.65	n/a	0.02	NP
Cobalt (mg/L)	GWA-3 (bg)	0	-14	-31	No	11	54.55	n/a	0.02	NP
Cobalt (mg/L)	GWA-4 (bg)	0.0003614	100	101	No	25	8	n/a	0.02	NP
<b>Cobalt (mg/L)</b>	<b>GWC-14</b>	<b>0.02337</b>	<b>126</b>	<b>95</b>	<b>Yes</b>	<b>24</b>	<b>12.5</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Copper (mg/L)	GWA-1 (bg)	0	0	63	No	18	100	n/a	0.02	NP

# Trend Test All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 8/9/2019, 3:35 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Copper (mg/L)	GWA-2 (bg)	0	-19	-63	No	18	83.33	n/a	0.02	NP
Copper (mg/L)	GWA-28 (bg)	0	3	63	No	18	94.44	n/a	0.02	NP
<b>Copper (mg/L)</b>	<b>GWA-29 (bg)</b>	<b>-0.001097</b>	<b>-75</b>	<b>-63</b>	<b>Yes</b>	<b>18</b>	<b>16.67</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Copper (mg/L)	GWA-3 (bg)	0	9	17	No	7	71.43	n/a	0.02	NP
Copper (mg/L)	GWA-4 (bg)	0	0	63	No	18	100	n/a	0.02	NP
Nickel (mg/L)	GWA-1 (bg)	0	-31	-63	No	18	88.89	n/a	0.02	NP
Nickel (mg/L)	GWA-2 (bg)	0	-41	-63	No	18	61.11	n/a	0.02	NP
Nickel (mg/L)	GWA-28 (bg)	0	-30	-63	No	18	83.33	n/a	0.02	NP
<b>Nickel (mg/L)</b>	<b>GWA-29 (bg)</b>	<b>-0.0002766</b>	<b>-71</b>	<b>-63</b>	<b>Yes</b>	<b>18</b>	<b>16.67</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Nickel (mg/L)	GWA-3 (bg)	-0.0003946	-10	-17	No	7	42.86	n/a	0.02	NP
Nickel (mg/L)	GWA-4 (bg)	0	-30	-48	No	15	80	n/a	0.02	NP
<b>Nickel (mg/L)</b>	<b>GWC-14</b>	<b>0.001894</b>	<b>114</b>	<b>68</b>	<b>Yes</b>	<b>19</b>	<b>36.84</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Nickel (mg/L)	GWC-26	0	1	63	No	18	88.89	n/a	0.02	NP
Nickel (mg/L)	GWC-8	5.4e-11	24	58	No	17	35.29	n/a	0.02	NP
pH (S.U.)	GWA-1 (bg)	-0.04607	-20	-48	No	15	0	n/a	0.02	NP
pH (S.U.)	GWA-2 (bg)	0	1	44	No	14	0	n/a	0.02	NP
<b>pH (S.U.)</b>	<b>GWA-28 (bg)</b>	<b>-0.1167</b>	<b>-62</b>	<b>-48</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
pH (S.U.)	GWA-29 (bg)	-0.03214	-16	-39	No	13	0	n/a	0.02	NP
<b>pH (S.U.)</b>	<b>GWA-3 (bg)</b>	<b>-0.277</b>	<b>-21</b>	<b>-17</b>	<b>Yes</b>	<b>7</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
pH (S.U.)	GWA-4 (bg)	-0.07502	-24	-39	No	13	0	n/a	0.02	NP
pH (S.U.)	GWC-18	-0.07227	-33	-39	No	13	0	n/a	0.02	NP
Sulfate (mg/L)	GWA-1 (bg)	0	-11	-44	No	14	92.86	n/a	0.02	NP
Sulfate (mg/L)	GWA-2 (bg)	0.1372	22	44	No	14	0	n/a	0.02	NP
Sulfate (mg/L)	GWA-28 (bg)	0.1066	20	44	No	14	7.143	n/a	0.02	NP
Sulfate (mg/L)	GWA-29 (bg)	-0.6263	-15	-39	No	13	0	n/a	0.02	NP
Sulfate (mg/L)	GWA-3 (bg)	-46.35	-13	-17	No	7	14.29	n/a	0.02	NP
Sulfate (mg/L)	GWA-4 (bg)	0	10	44	No	14	0	n/a	0.02	NP
<b>Sulfate (mg/L)</b>	<b>GWC-12</b>	<b>1.741</b>	<b>63</b>	<b>44</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Sulfate (mg/L)	GWC-17	0.05803	39	44	No	14	57.14	n/a	0.02	NP
Sulfate (mg/L)	GWC-30	-0.04959	-32	-44	No	14	0	n/a	0.02	NP
<b>Sulfate (mg/L)</b>	<b>GWC-5</b>	<b>4.356</b>	<b>46</b>	<b>44</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Vanadium (mg/L)	GWA-1 (bg)	0	1	63	No	18	88.89	n/a	0.02	NP
Vanadium (mg/L)	GWA-2 (bg)	0	-39	-63	No	18	72.22	n/a	0.02	NP
Vanadium (mg/L)	GWA-28 (bg)	0	-11	-63	No	18	83.33	n/a	0.02	NP
Vanadium (mg/L)	GWA-29 (bg)	0	-42	-63	No	18	83.33	n/a	0.02	NP
Vanadium (mg/L)	GWA-3 (bg)	0	1	17	No	7	71.43	n/a	0.02	NP
Vanadium (mg/L)	GWA-4 (bg)	0	-44	-63	No	18	61.11	n/a	0.02	NP
Vanadium (mg/L)	GWC-17	0	28	63	No	18	44.44	n/a	0.02	NP
Vanadium (mg/L)	GWC-18	0	2	53	No	16	75	n/a	0.02	NP
Vanadium (mg/L)	GWC-19	0	54	63	No	18	72.22	n/a	0.02	NP
Vanadium (mg/L)	GWC-22	-0.000195	-38	-63	No	18	16.67	n/a	0.02	NP
Zinc (mg/L)	GWA-1 (bg)	0	1	63	No	18	11.11	n/a	0.02	NP
Zinc (mg/L)	GWA-2 (bg)	-0.0001339	-16	-63	No	18	22.22	n/a	0.02	NP
Zinc (mg/L)	GWA-28 (bg)	0.0005997	50	63	No	18	22.22	n/a	0.02	NP
Zinc (mg/L)	GWA-29 (bg)	-0.0003152	-6	-63	No	18	0	n/a	0.02	NP
Zinc (mg/L)	GWA-3 (bg)	0	0	17	No	7	28.57	n/a	0.02	NP
Zinc (mg/L)	GWA-4 (bg)	0	-3	-58	No	17	58.82	n/a	0.02	NP
<b>Zinc (mg/L)</b>	<b>GWC-14</b>	<b>0.001159</b>	<b>80</b>	<b>63</b>	<b>Yes</b>	<b>18</b>	<b>16.67</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>

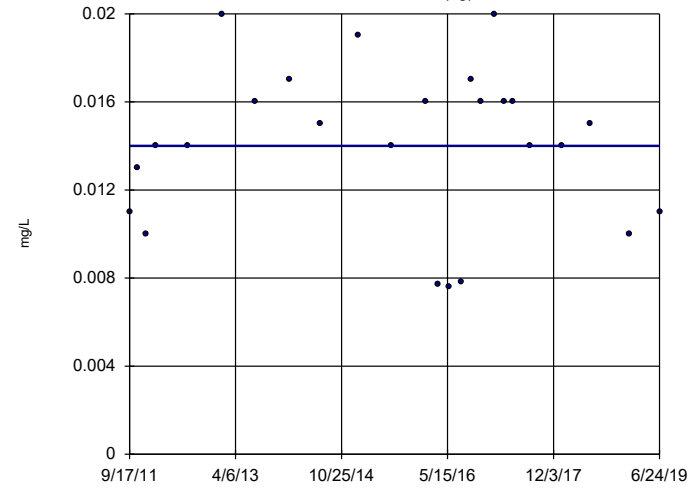
### Barium GWA-1 (bg)



n = 25  
Slope = -0.0003189  
units per year.  
Mann-Kendall  
statistic = -106  
critical = -101  
Decreasing trend  
significant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

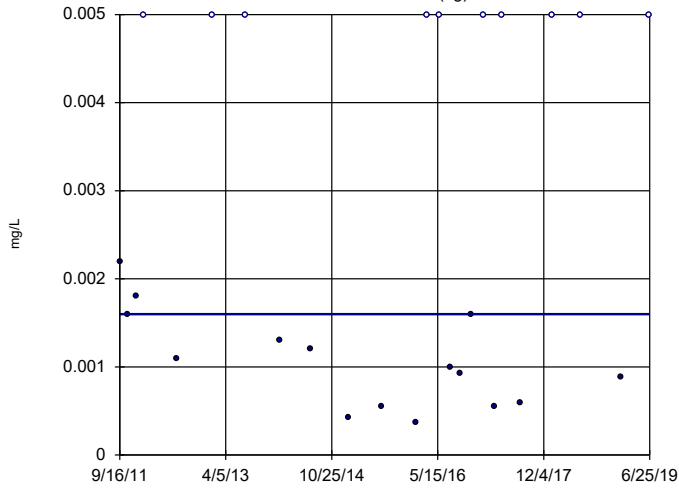
### Barium GWA-2 (bg)



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -1  
critical = -101  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

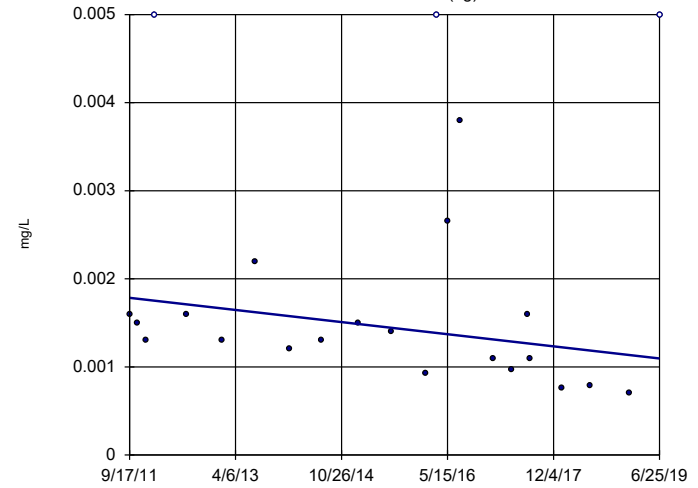
### Barium GWA-28 (bg)



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -1  
critical = -101  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

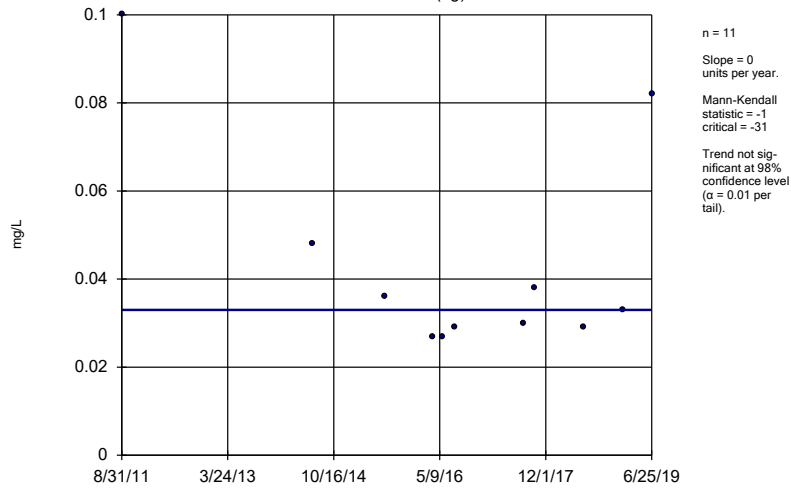
### Barium GWA-29 (bg)



n = 23  
Slope = -0.00008839  
units per year.  
Mann-Kendall  
statistic = -66  
critical = -89  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

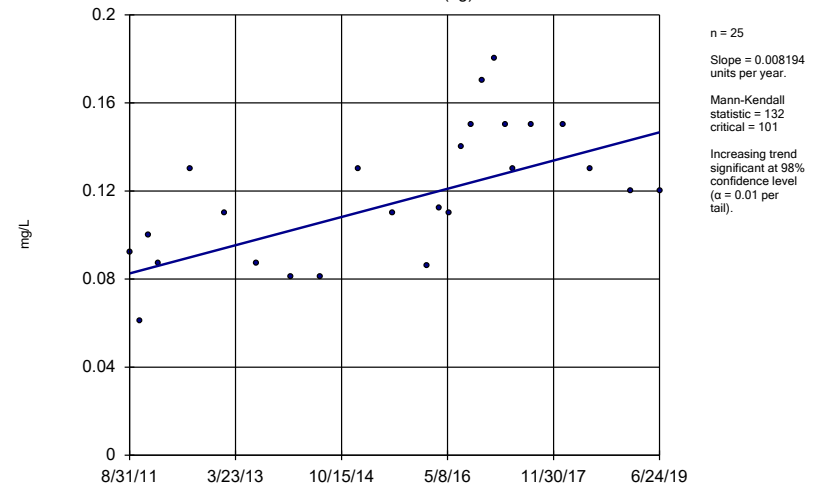
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Barium GWA-3 (bg)



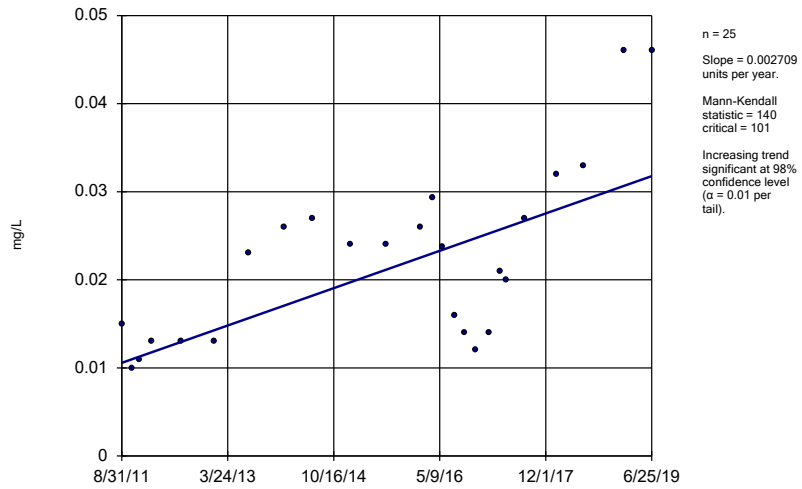
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Barium GWA-4 (bg)



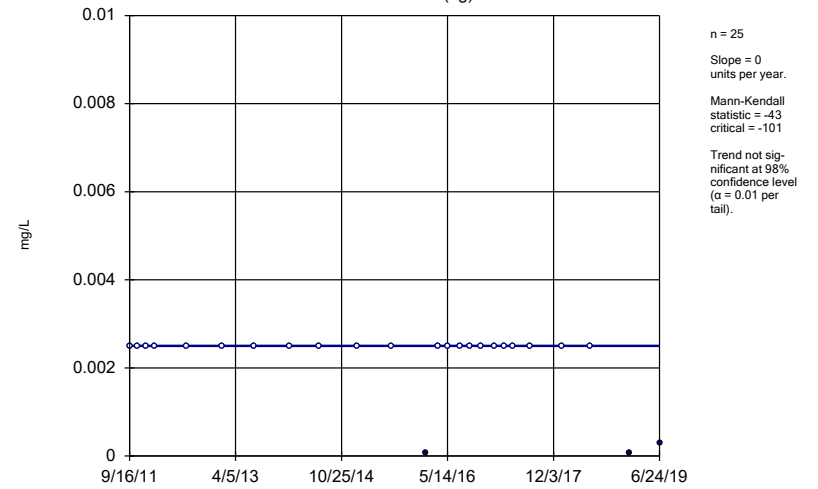
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Barium GWC-21



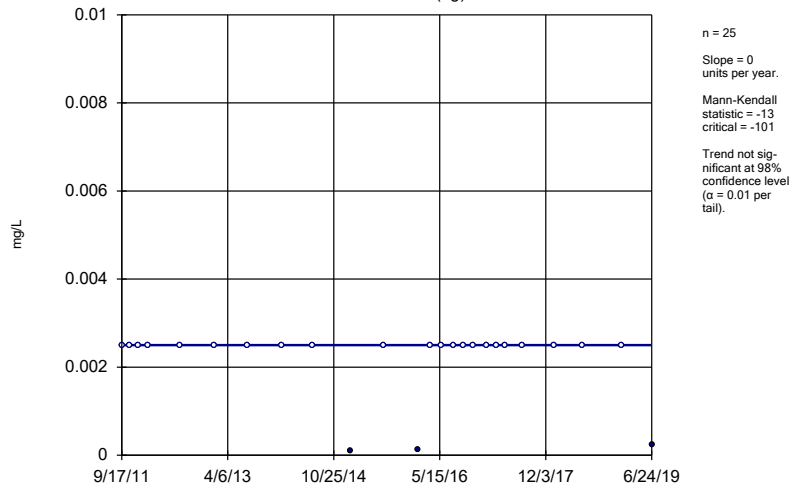
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium GWA-1 (bg)



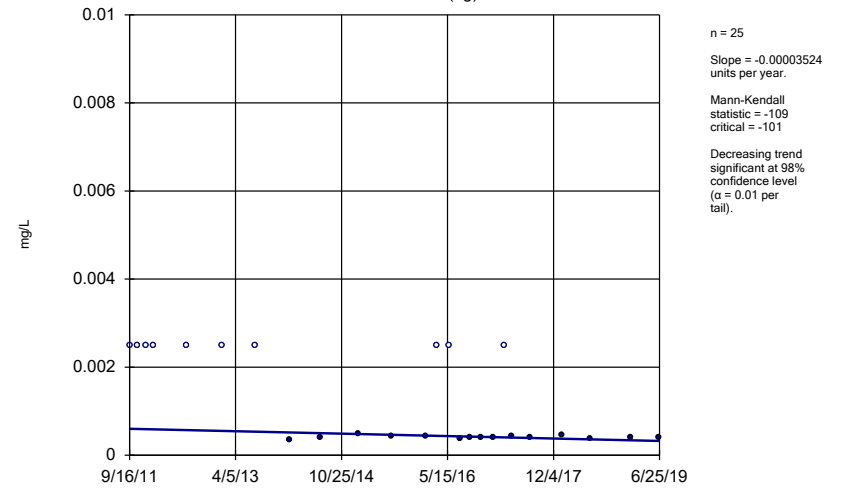
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium GWA-2 (bg)



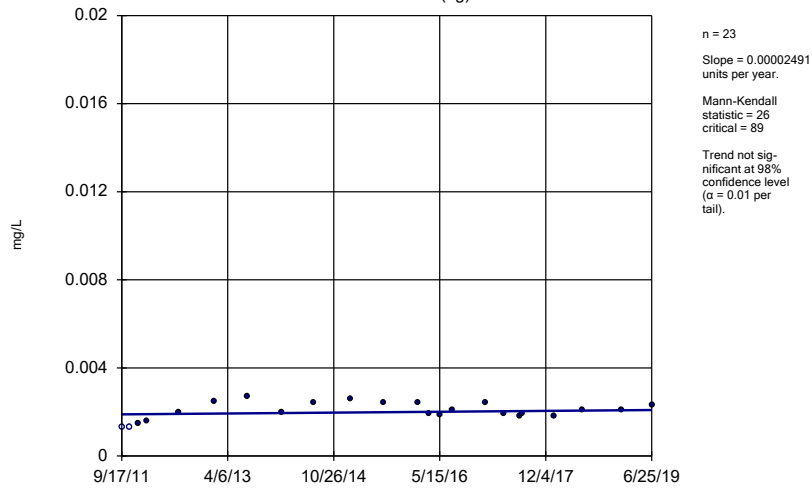
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium GWA-28 (bg)



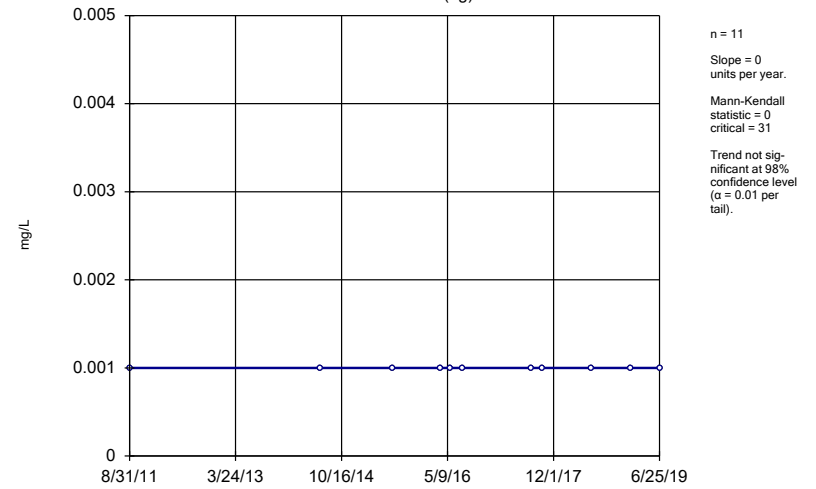
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium GWA-29 (bg)



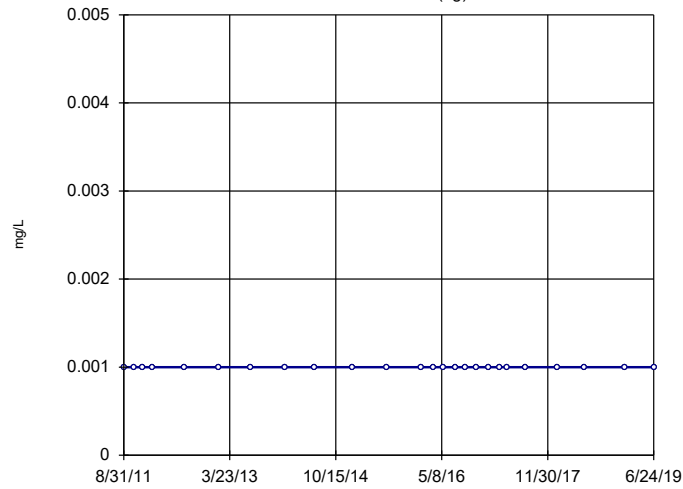
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium GWA-3 (bg)



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Plant Wansley Client: Southern Company Data: Wansley Landfill

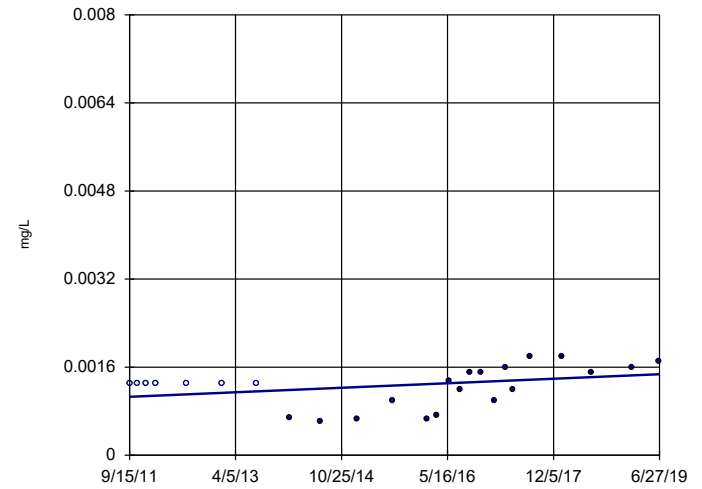
### Beryllium GWA-4 (bg)



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 101  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

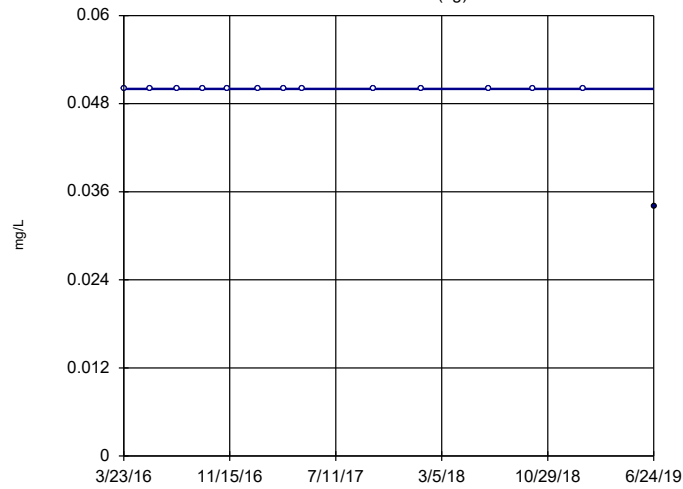
### Beryllium GWC-32



n = 25  
Slope = 0.00005233  
units per year.  
Mann-Kendall  
statistic = 103  
critical = 101  
Increasing trend  
significant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

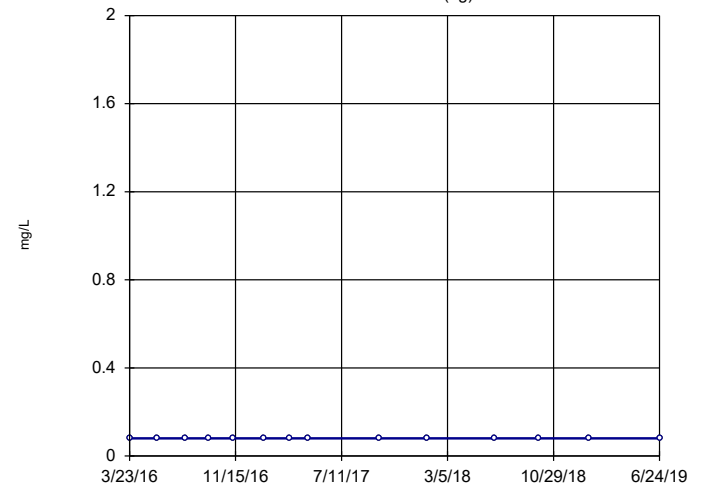
### Boron GWA-1 (bg)



n = 14  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -13  
critical = -44  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

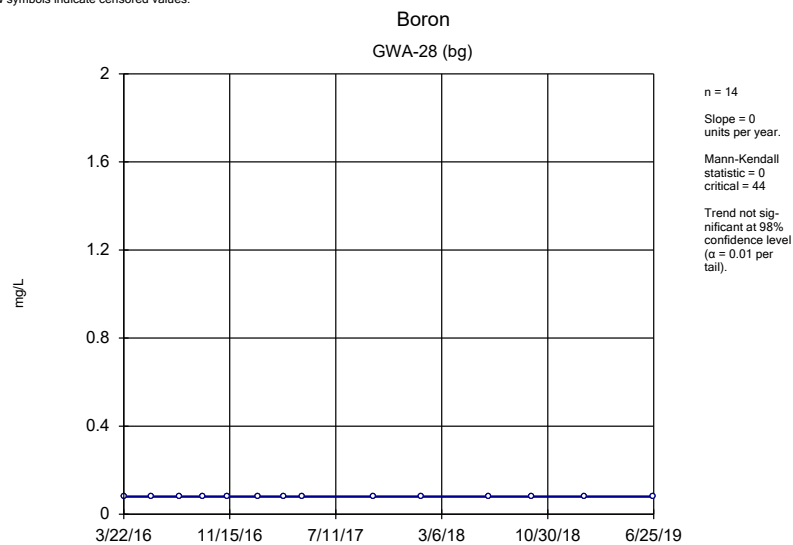
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Boron GWA-2 (bg)

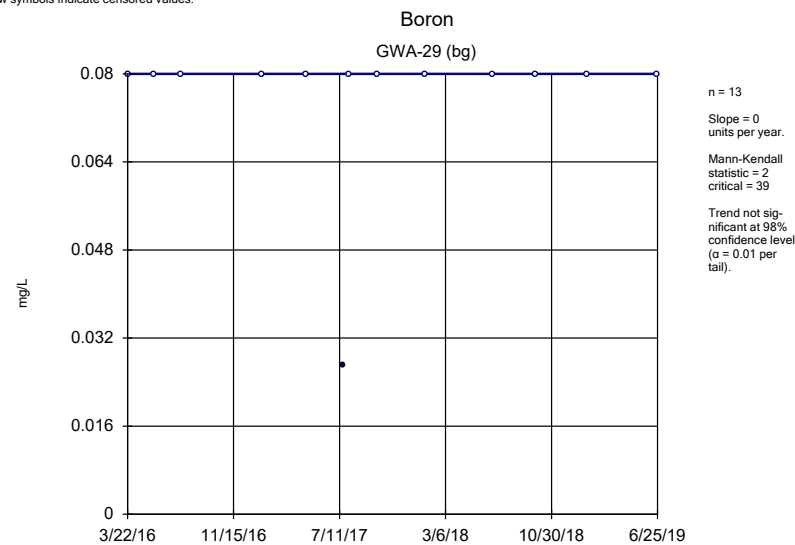


n = 14  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 44  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

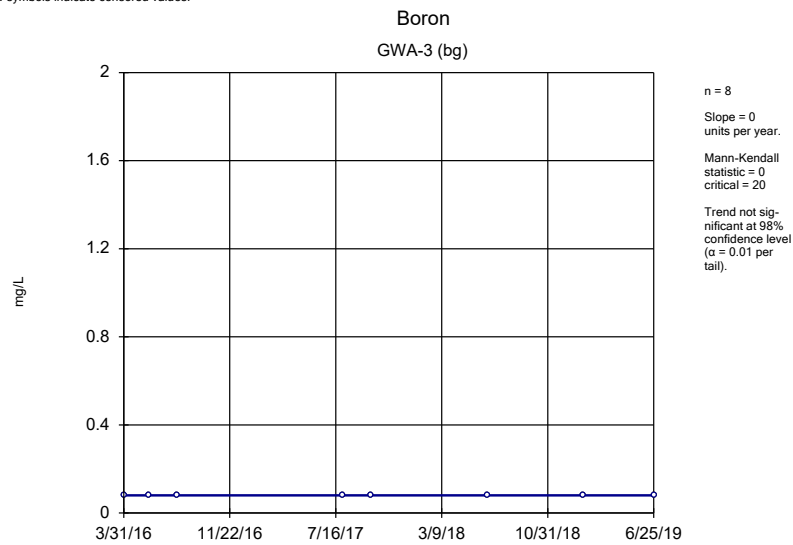
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



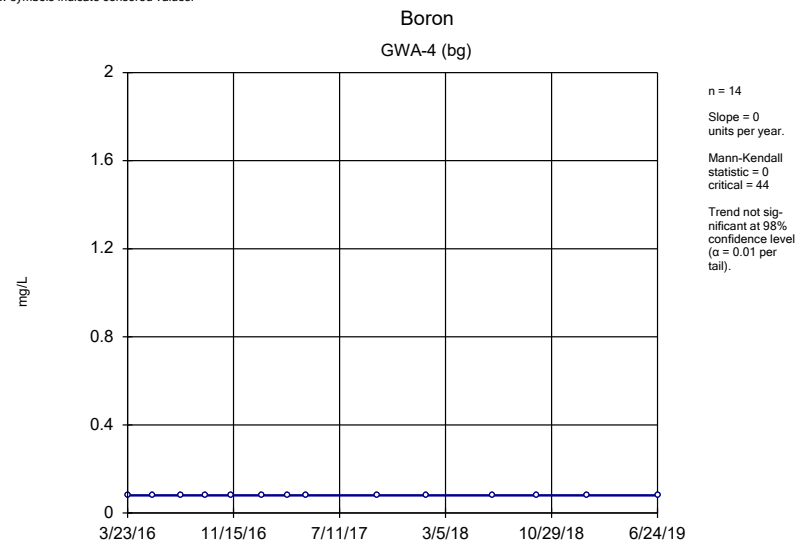
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

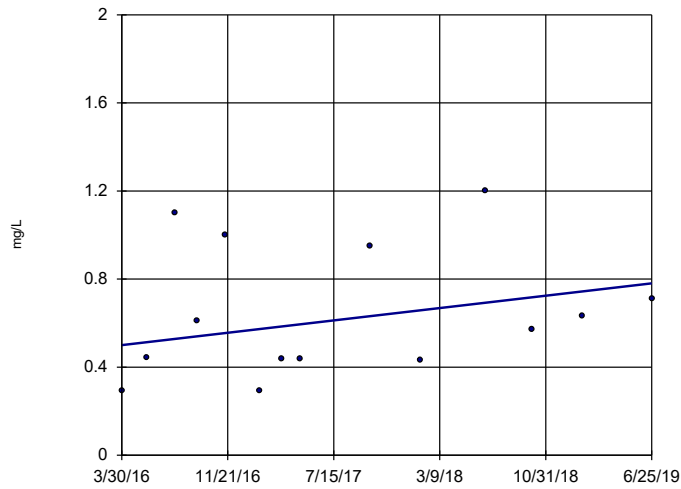


Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

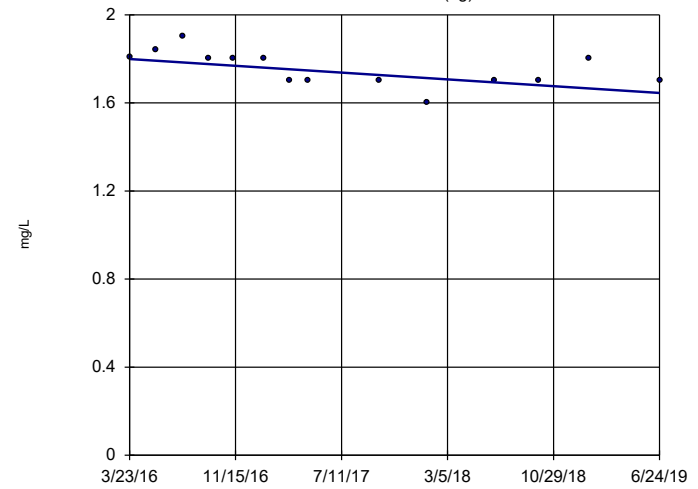
### Boron GWC-14



n = 14  
 Slope = 0.08655  
 units per year.  
 Mann-Kendall  
 statistic = 16  
 critical = 44  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

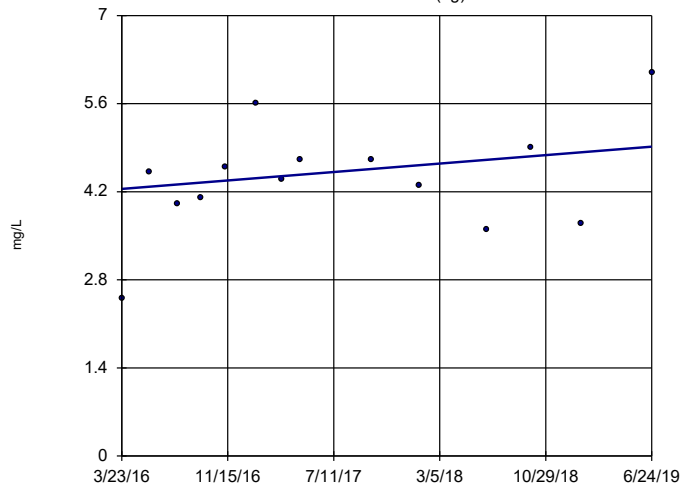
### Chloride GWA-1 (bg)



n = 14  
 Slope = -0.04716  
 units per year.  
 Mann-Kendall  
 statistic = -46  
 critical = -44  
 Decreasing trend  
 significant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

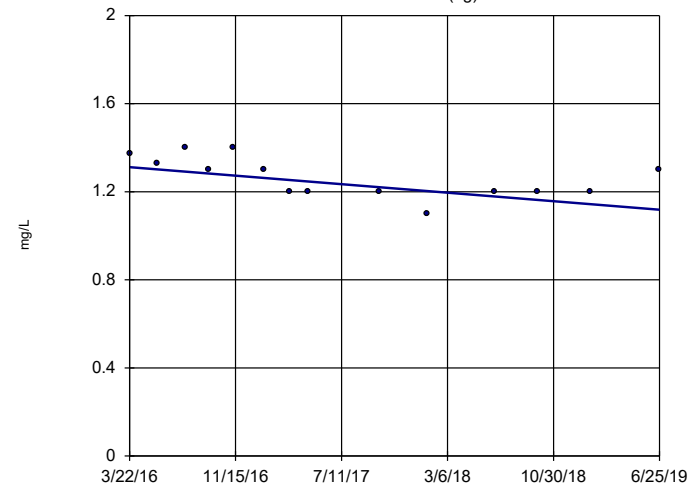
### Chloride GWA-2 (bg)



n = 14  
 Slope = 0.206  
 units per year.  
 Mann-Kendall  
 statistic = 24  
 critical = 44  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

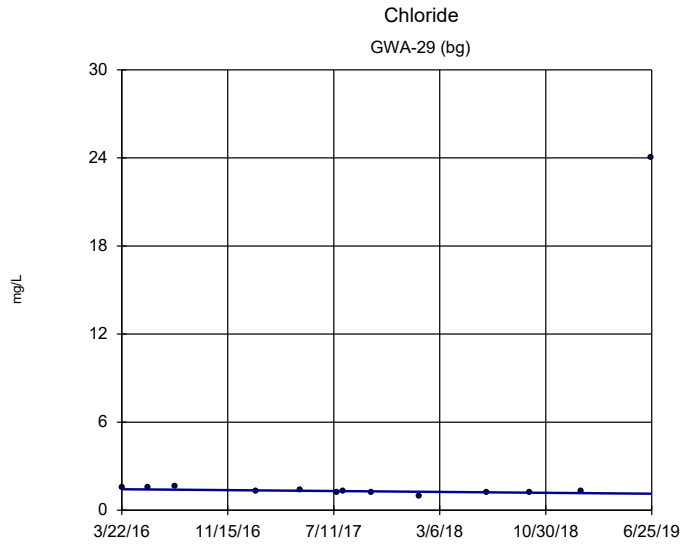
### Chloride GWA-28 (bg)



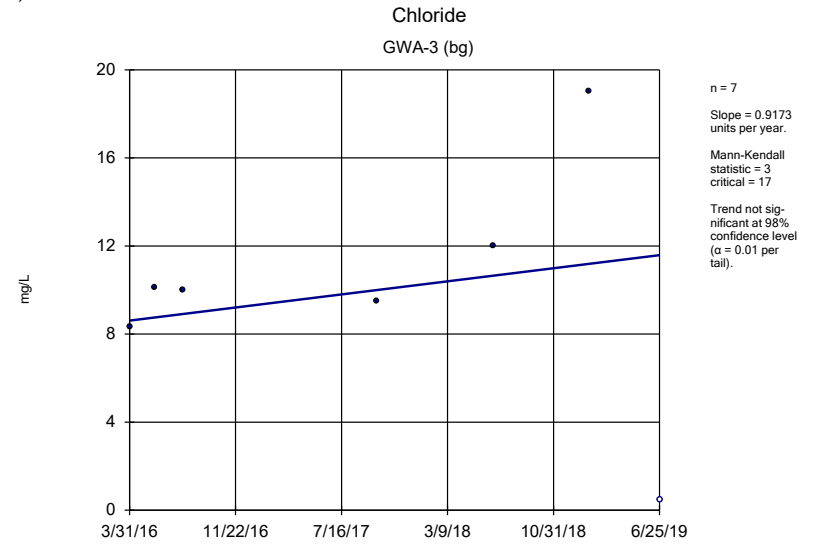
n = 14  
 Slope = -0.05925  
 units per year.  
 Mann-Kendall  
 statistic = -42  
 critical = -44  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

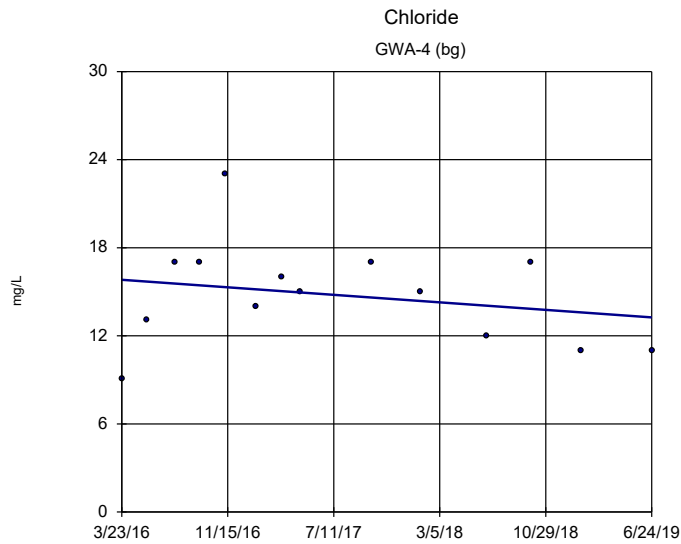




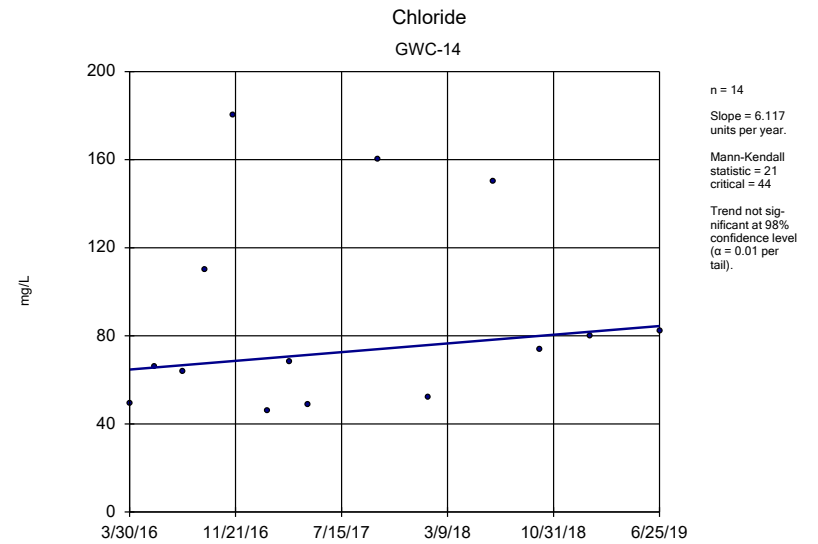
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

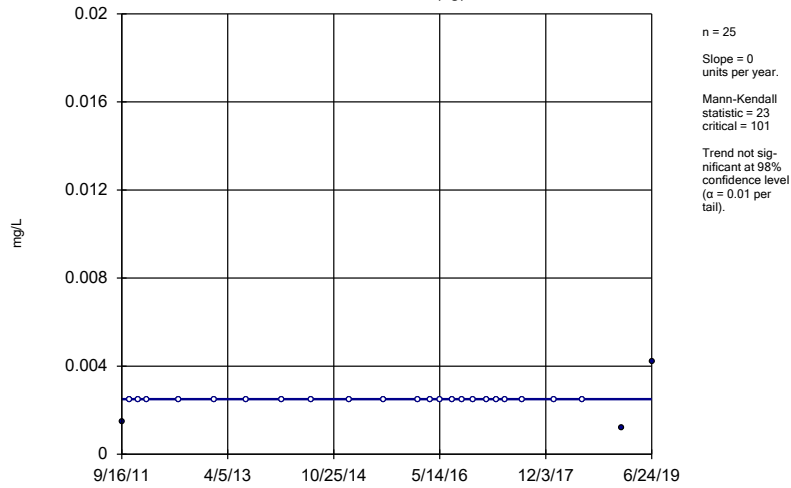


Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



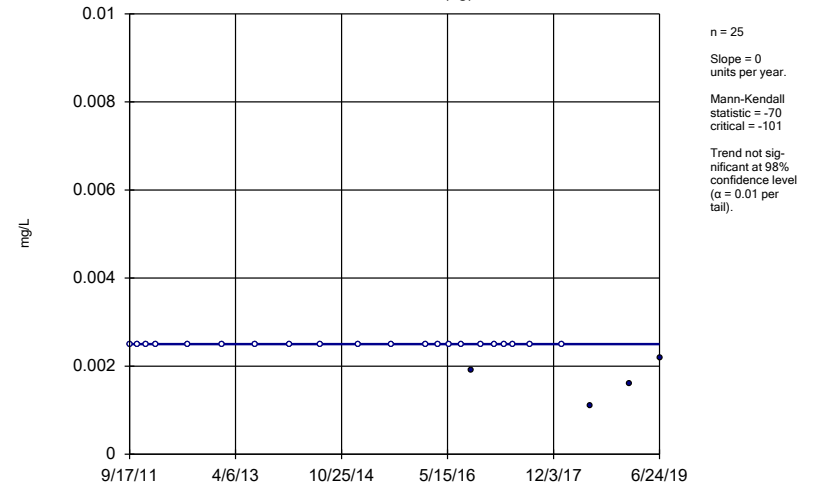
Sen's Slope Estimator Analysis Run 8/9/2019 3:28 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWA-1 (bg)



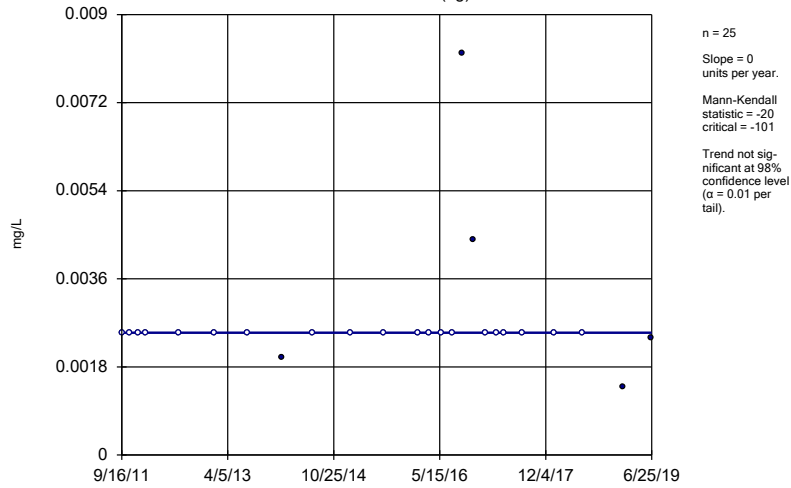
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWA-2 (bg)



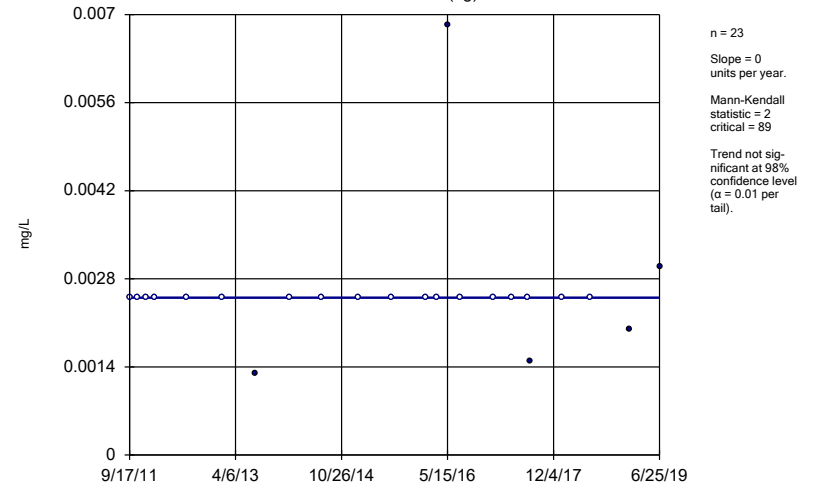
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWA-28 (bg)

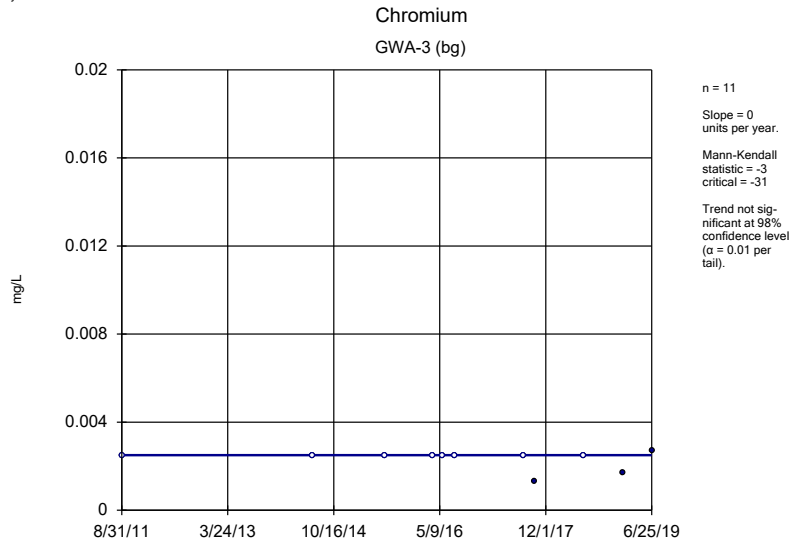


Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

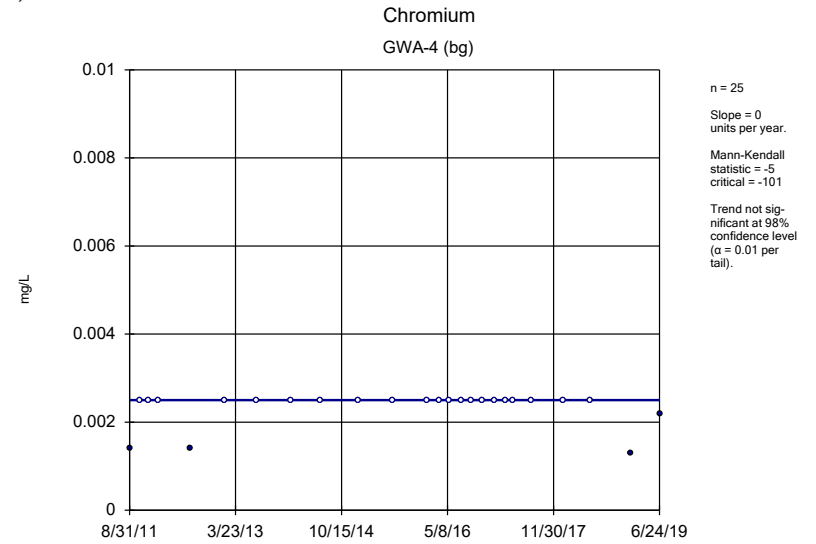
### Chromium GWA-29 (bg)



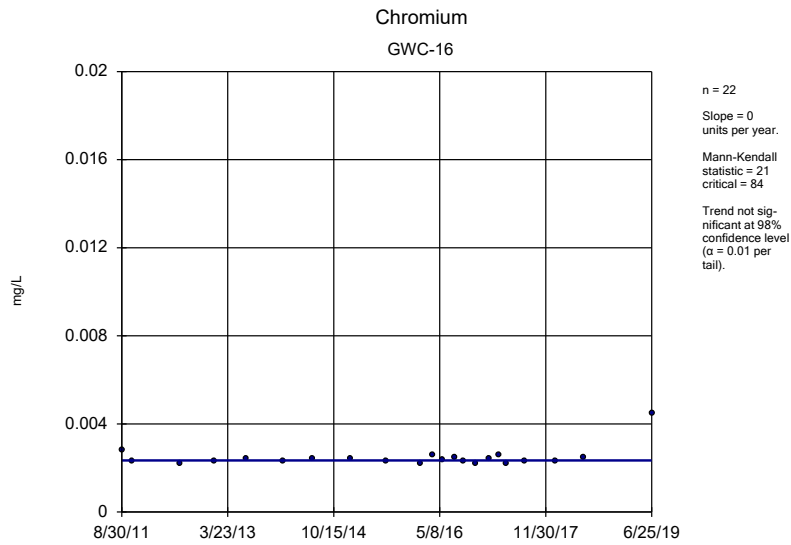
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



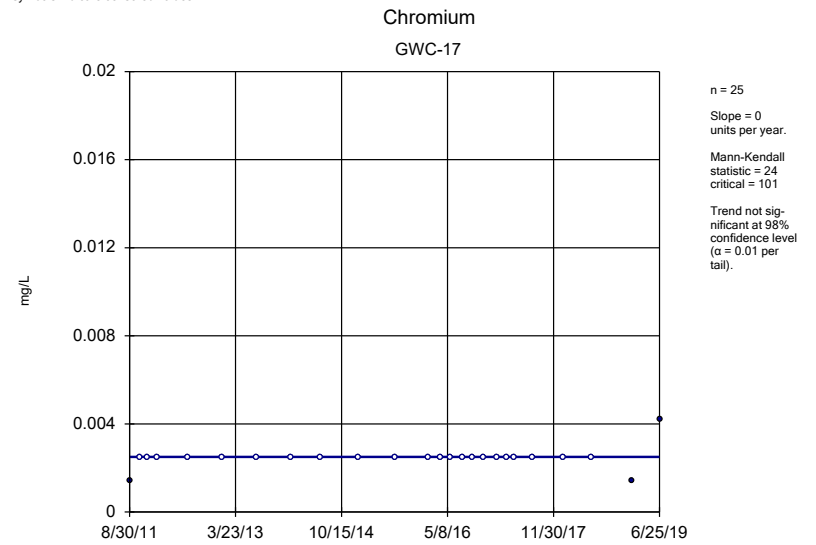
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

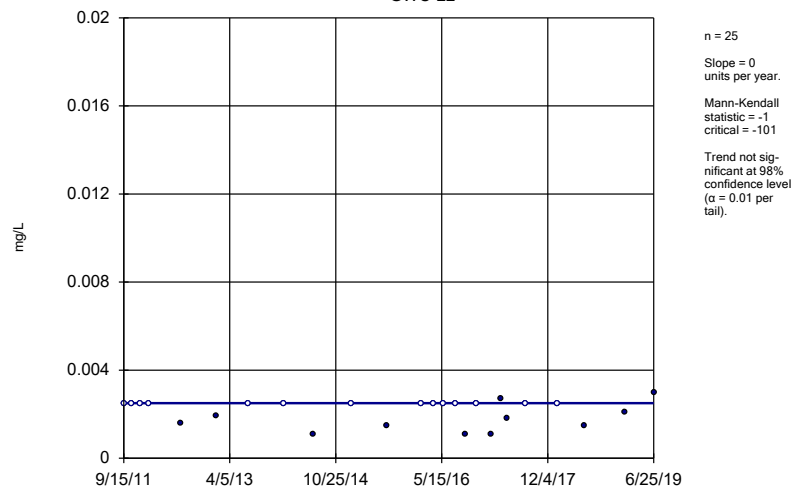


Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



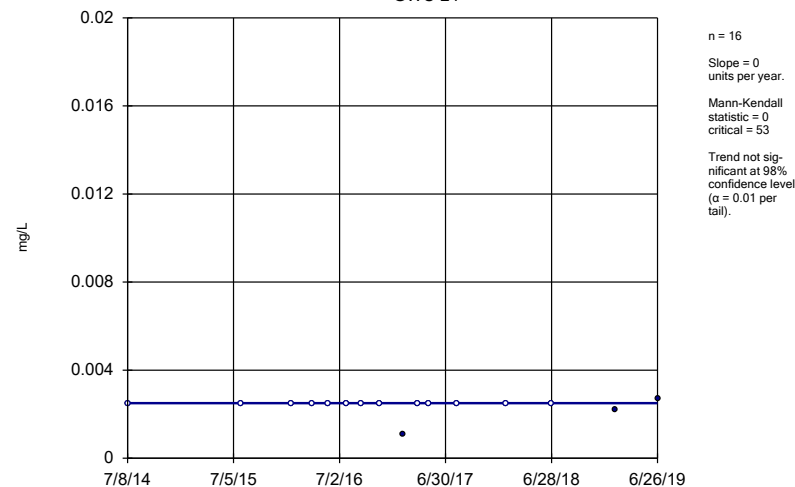
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Chromium  
GWC-22



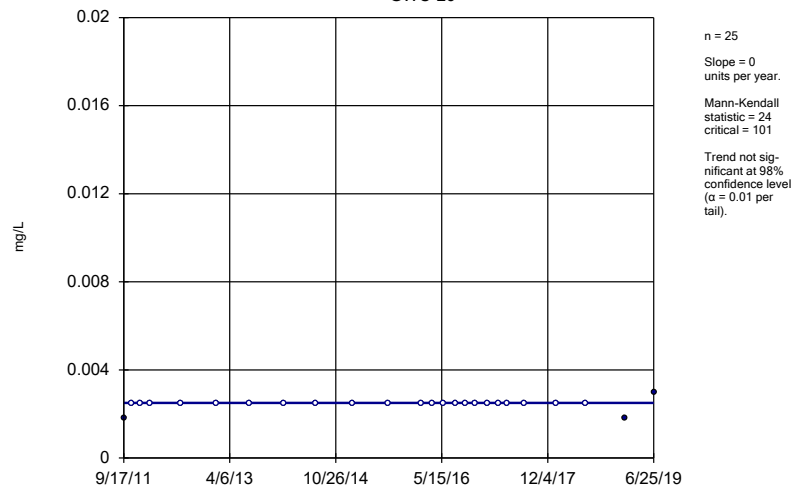
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Chromium  
GWC-24



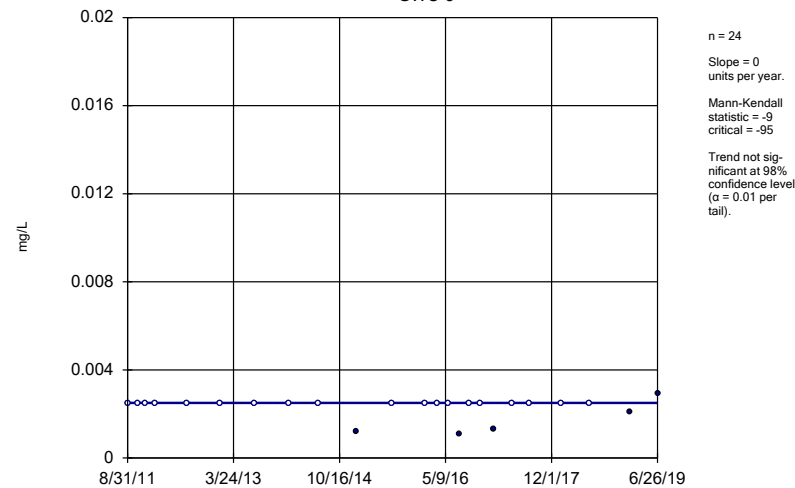
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Chromium  
GWC-26



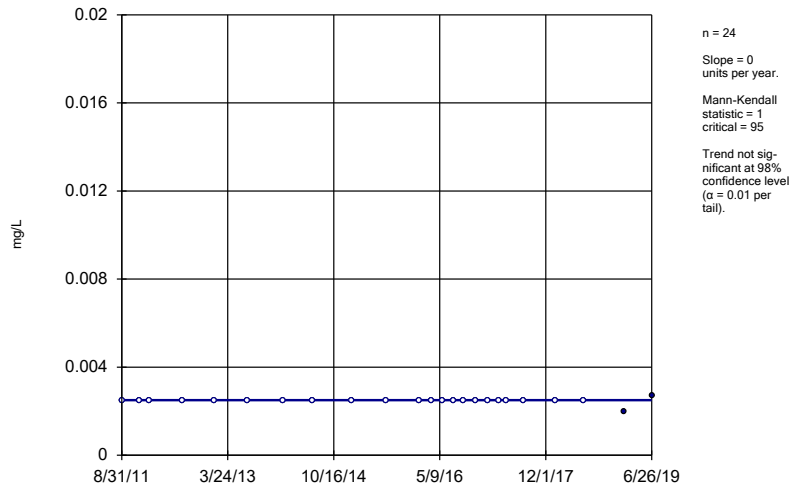
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Chromium  
GWC-5



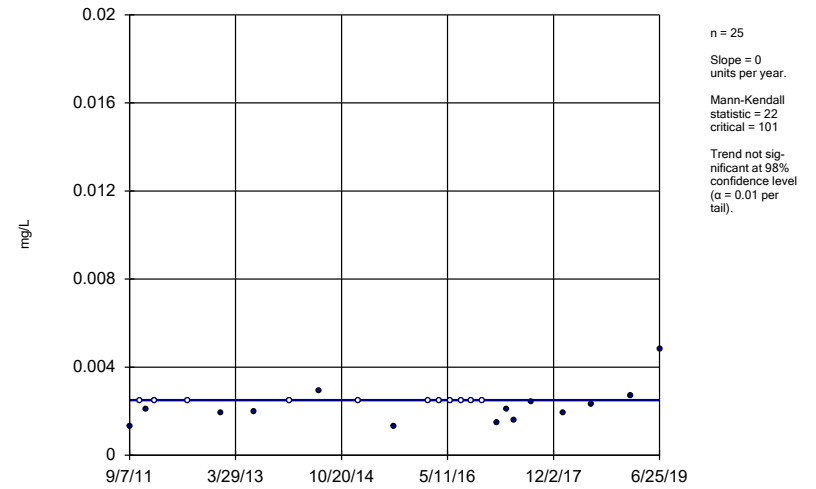
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWC-6



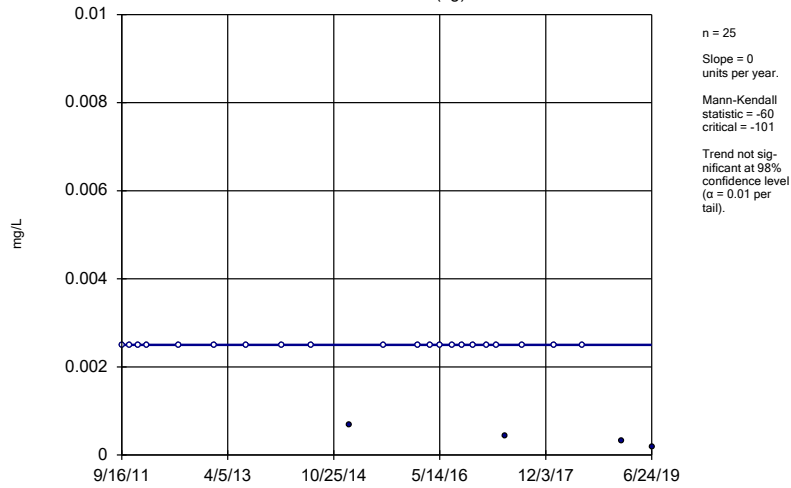
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWC-9



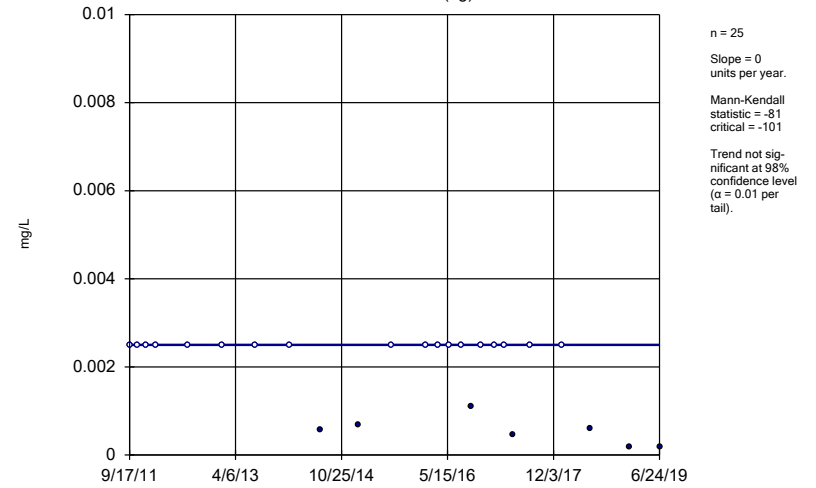
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Cobalt GWA-1 (bg)

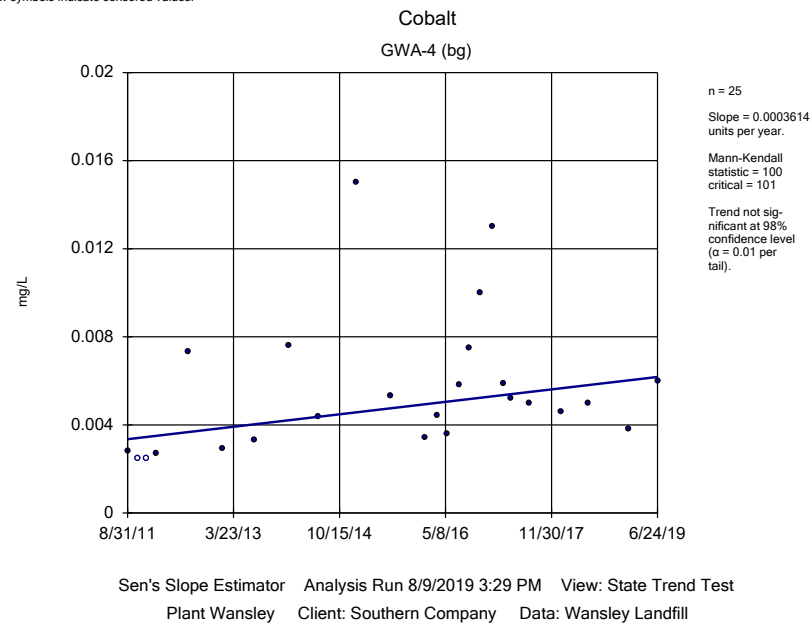
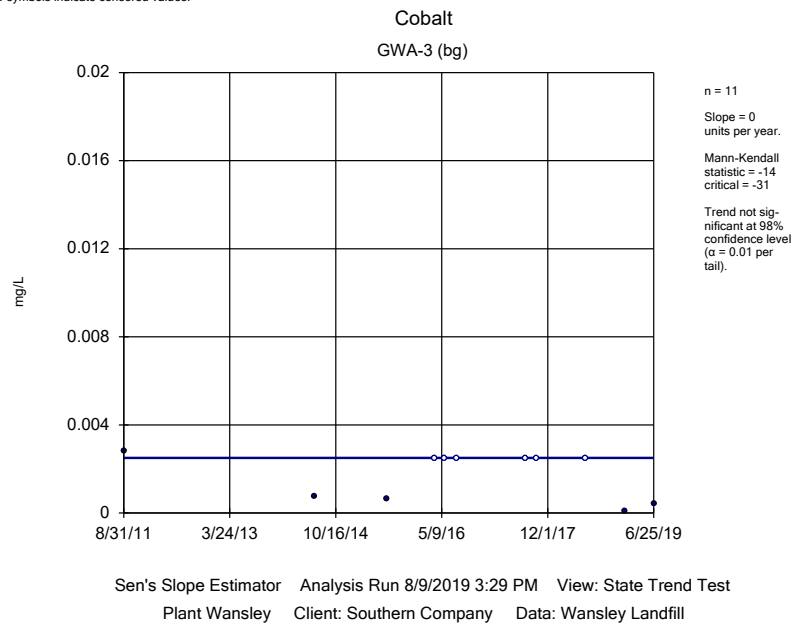
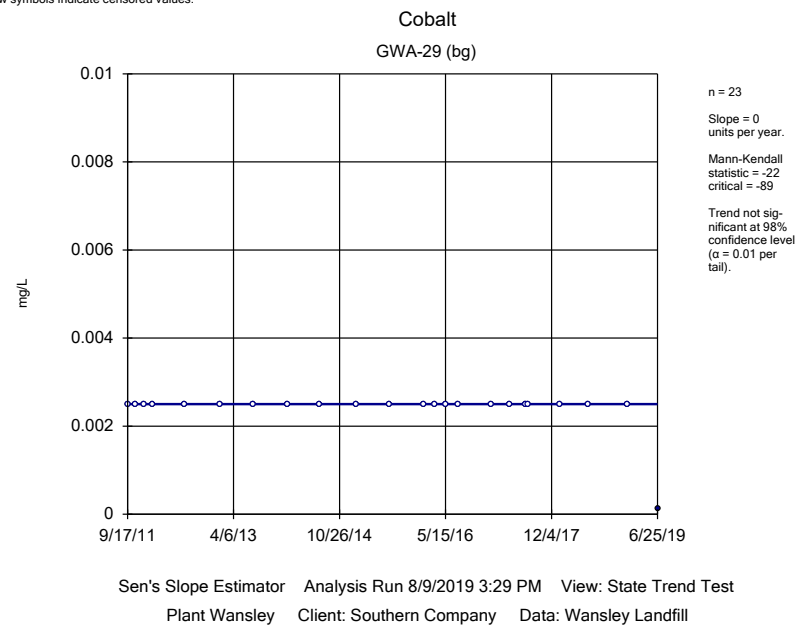
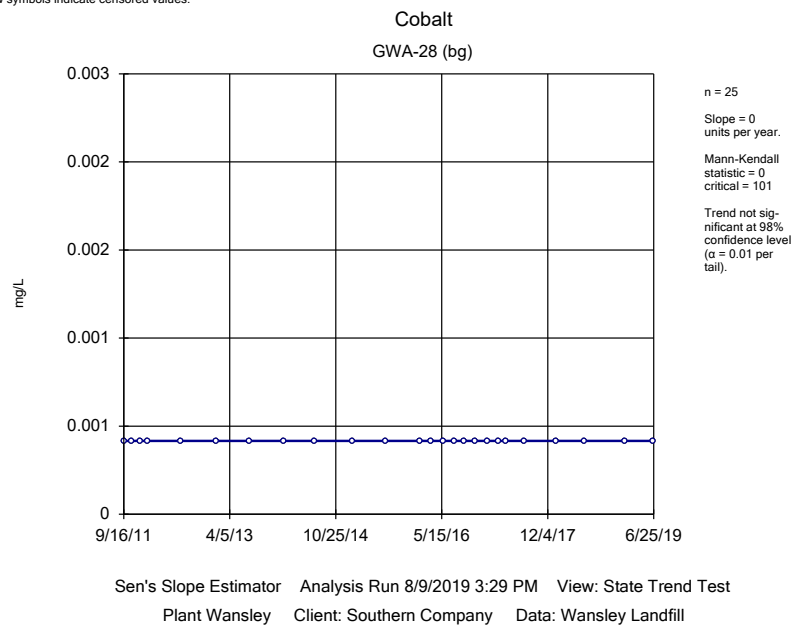


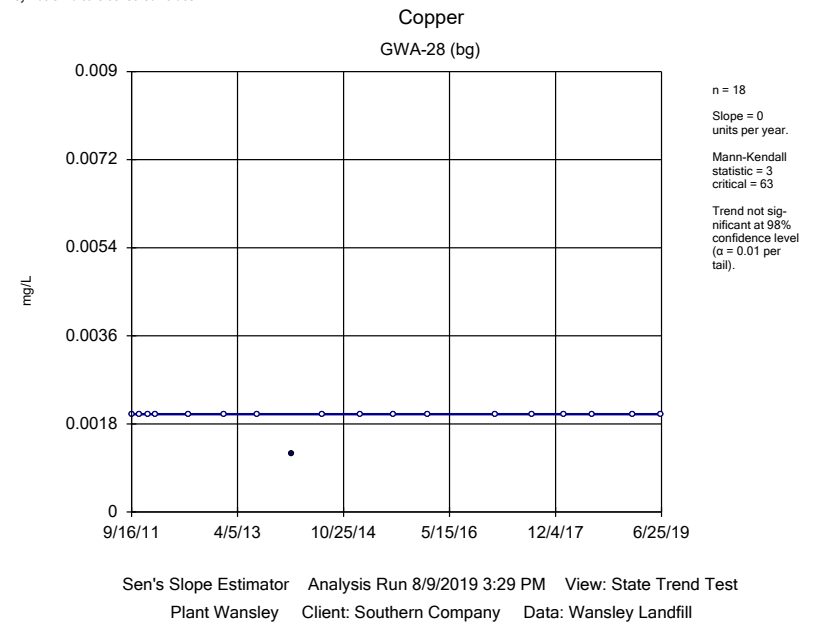
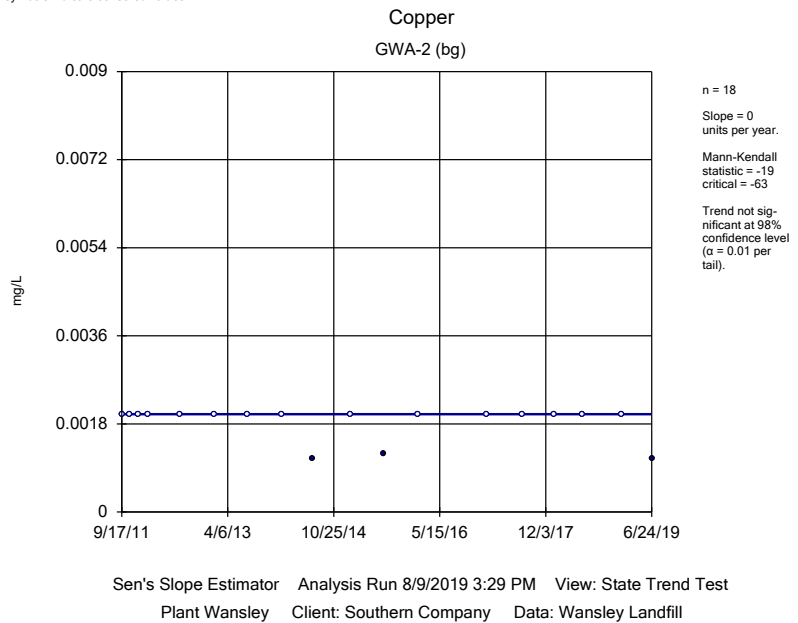
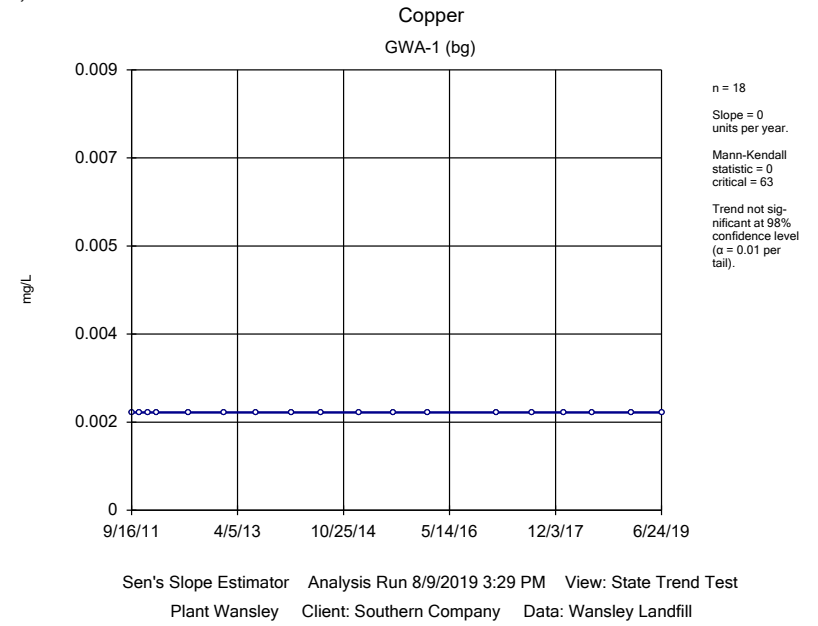
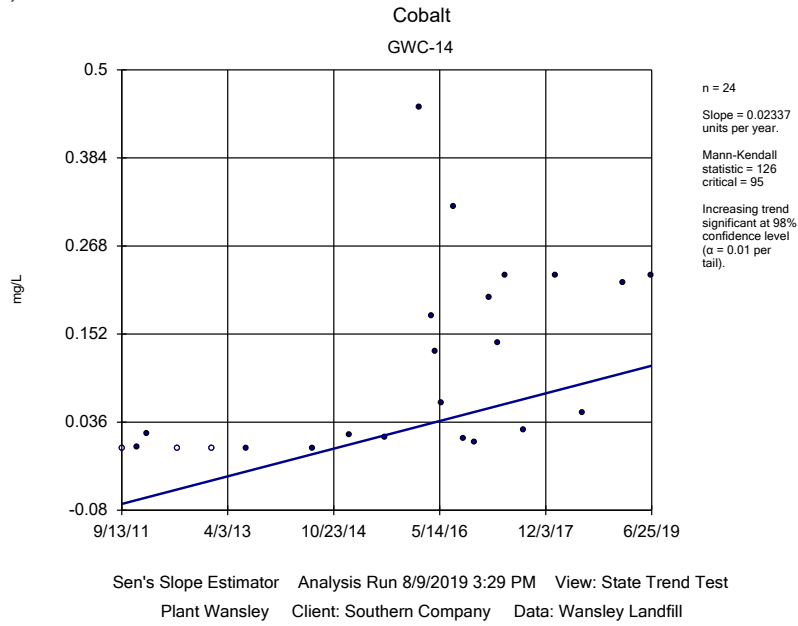
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

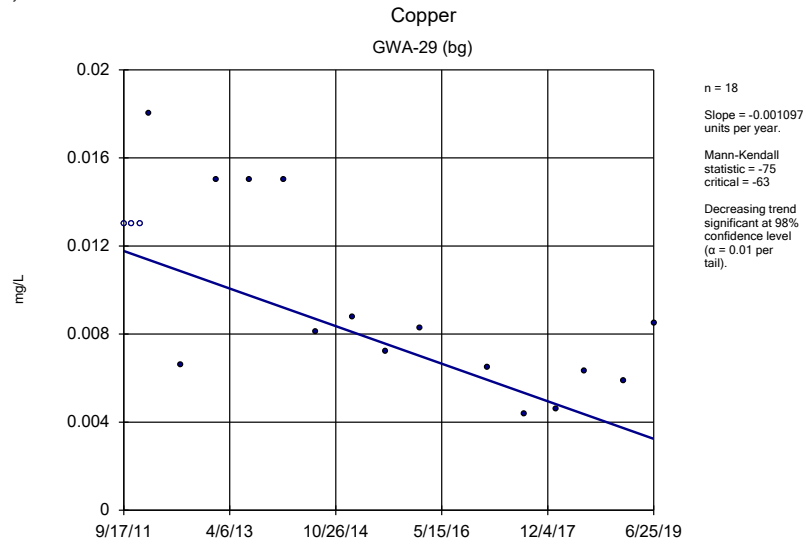
### Cobalt GWA-2 (bg)



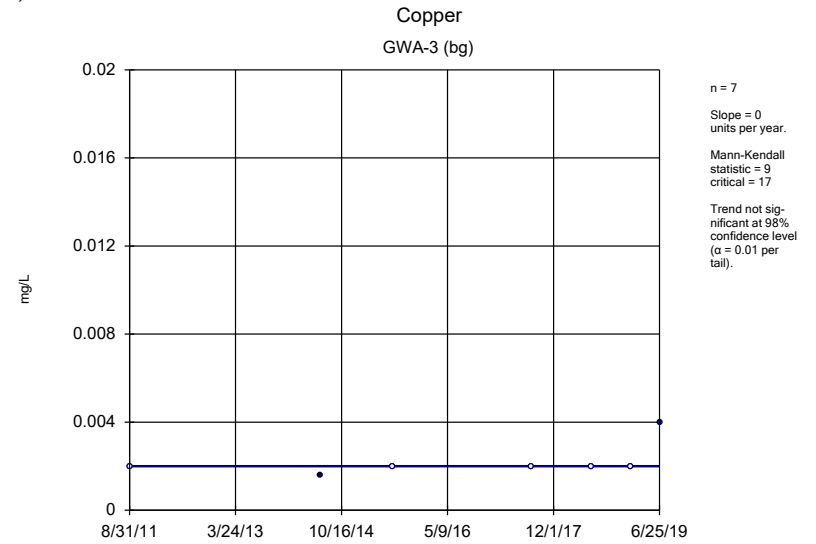
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Plant Wansley Client: Southern Company Data: Wansley Landfill



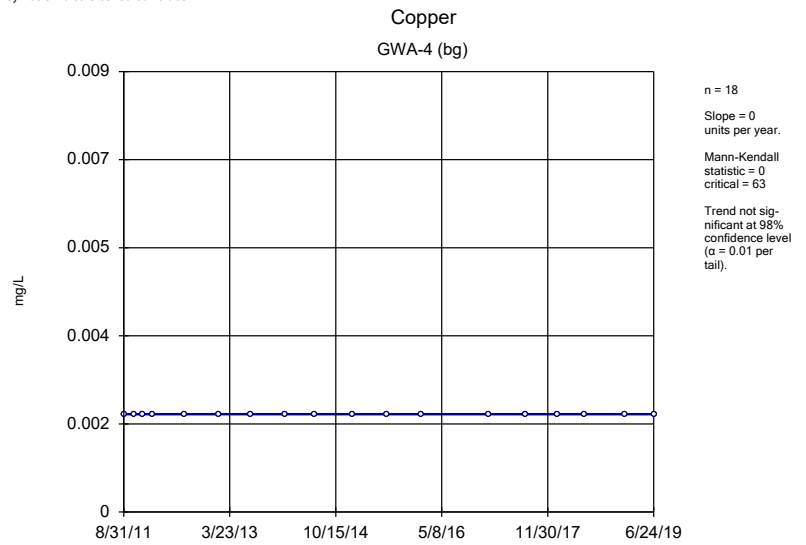




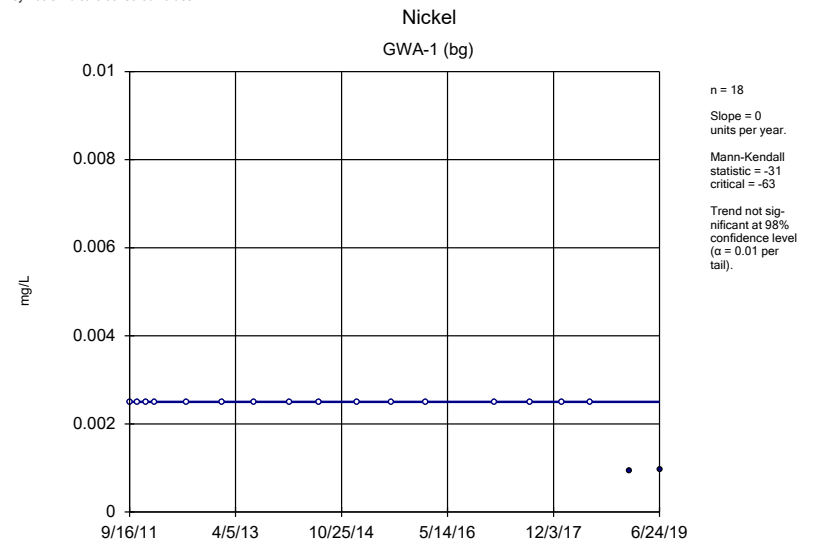
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

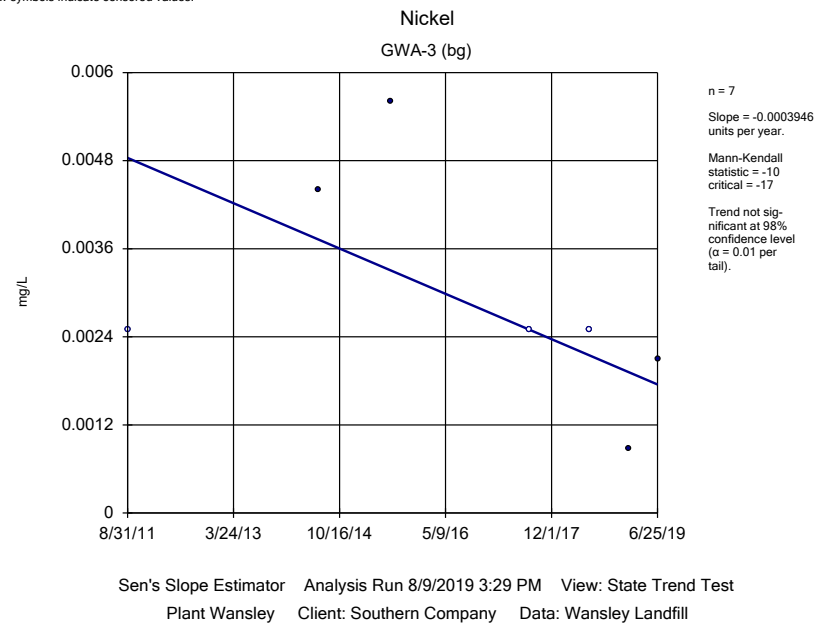
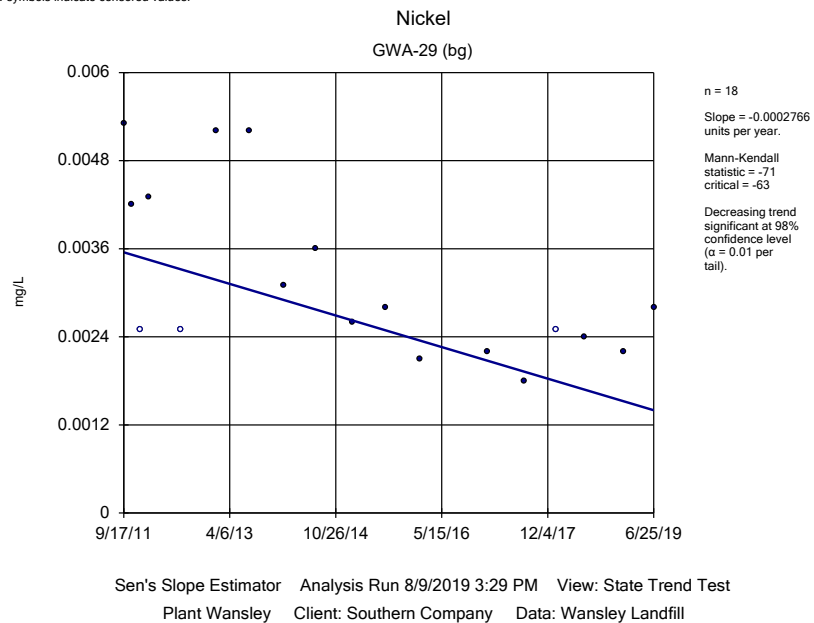
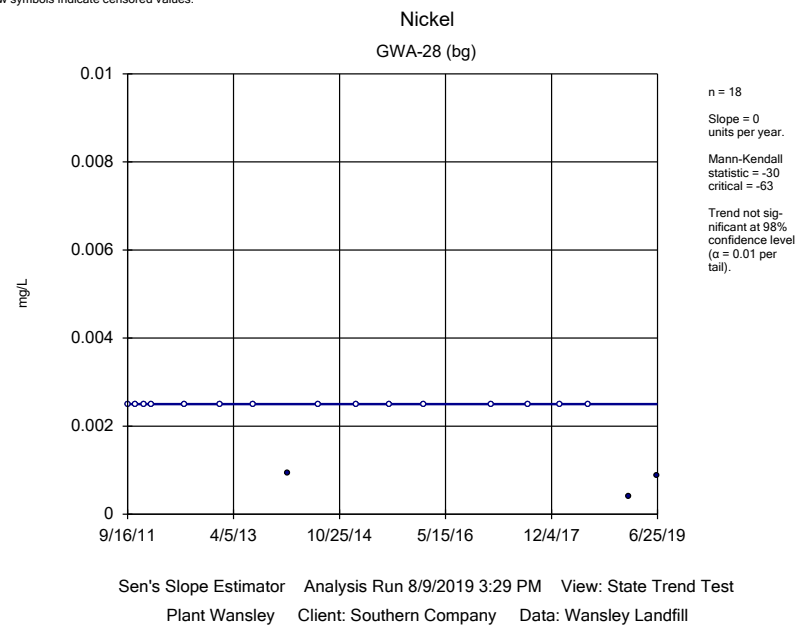
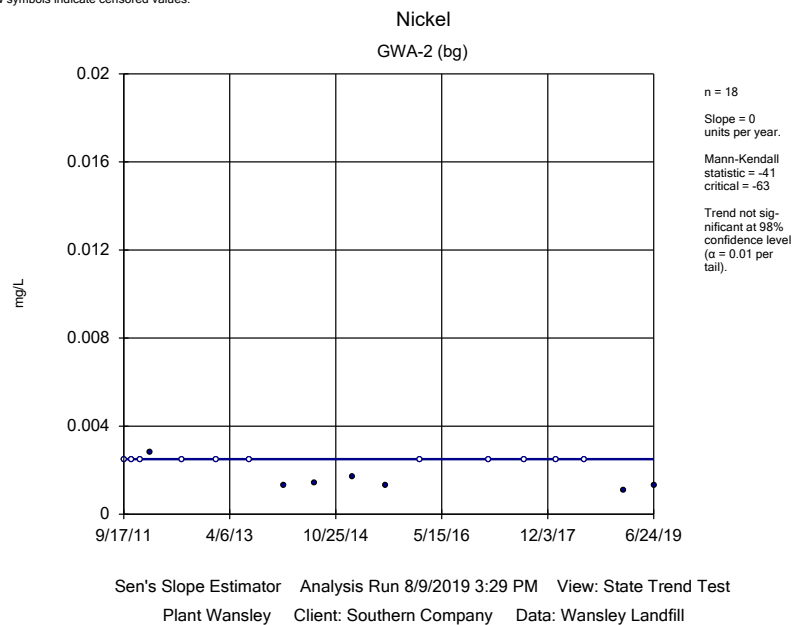


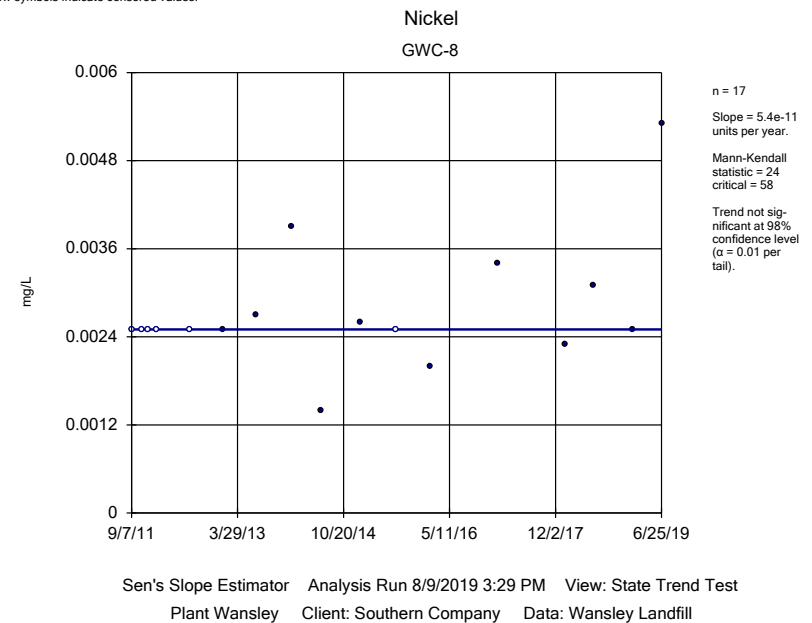
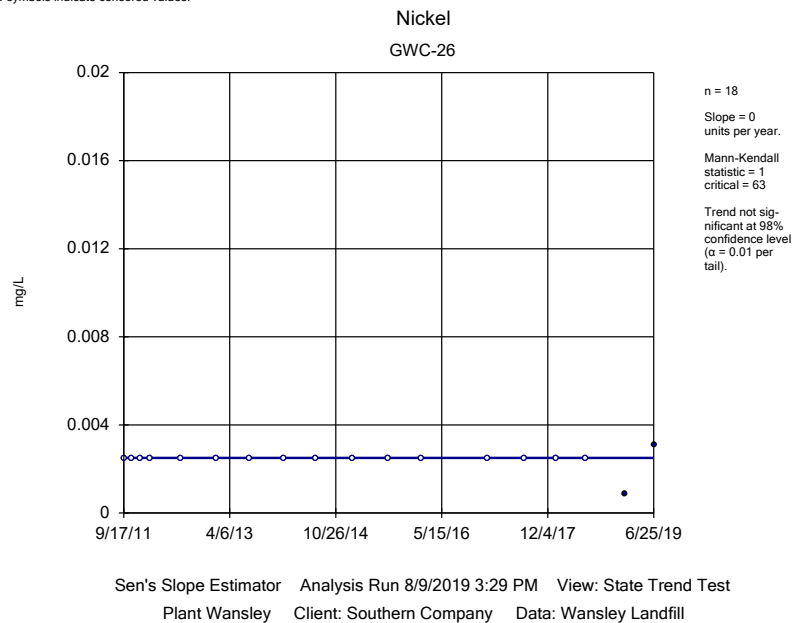
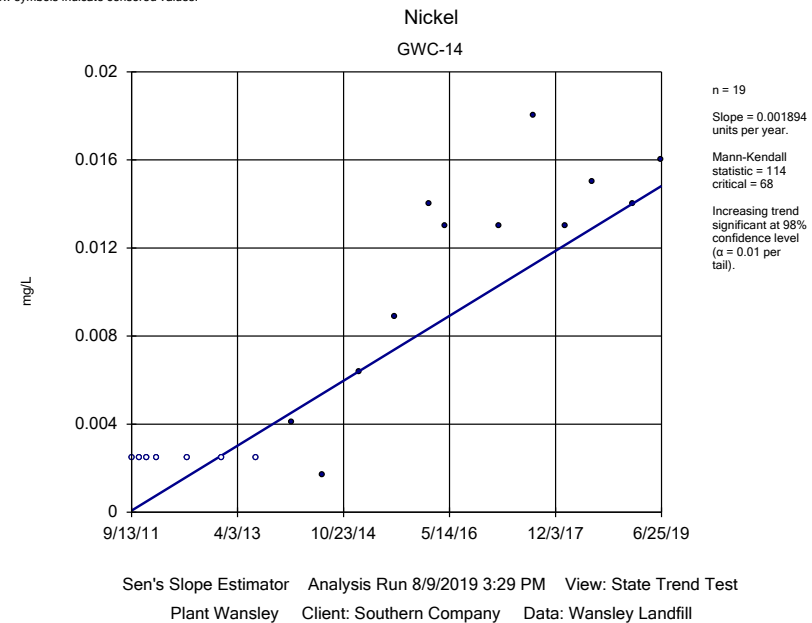
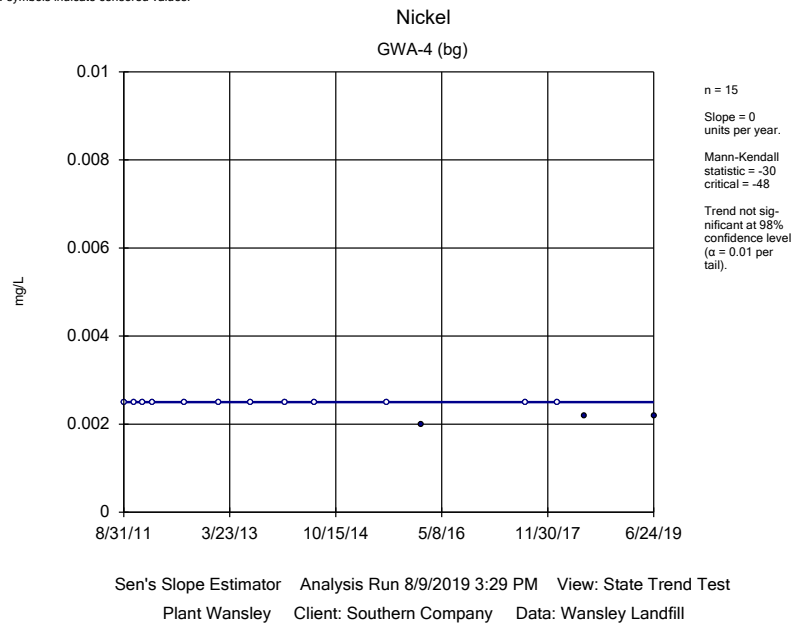
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

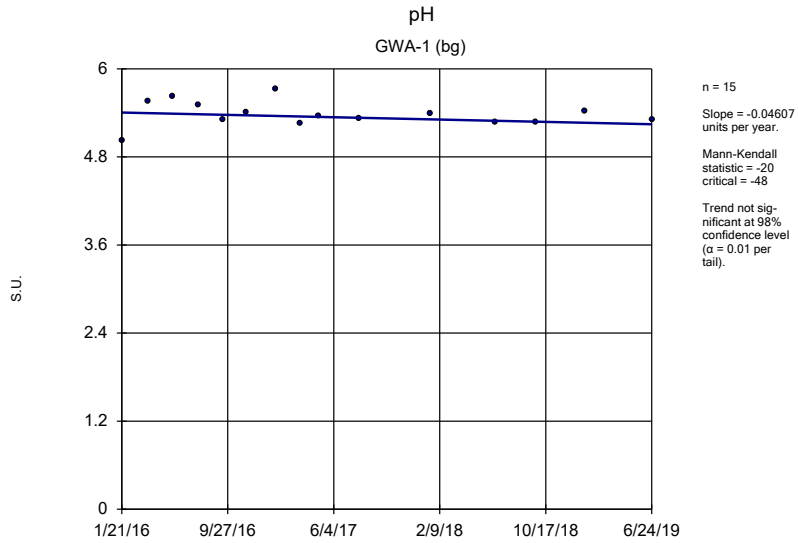


Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

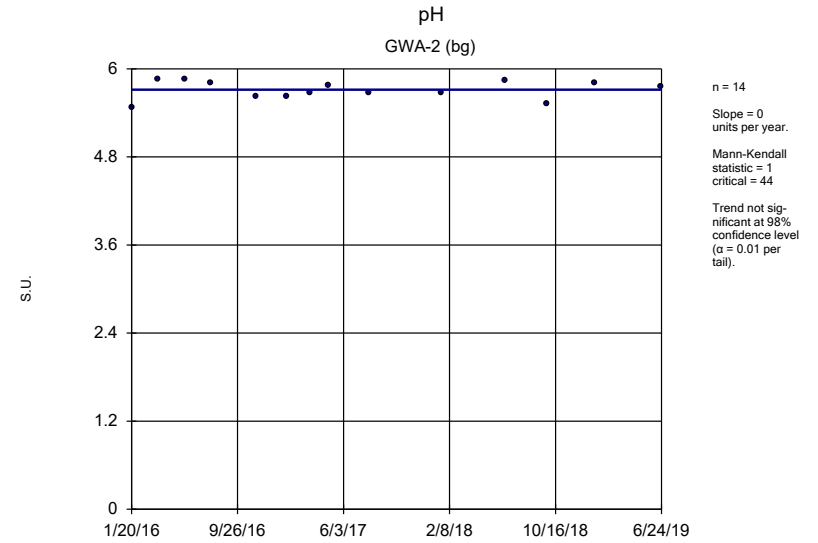




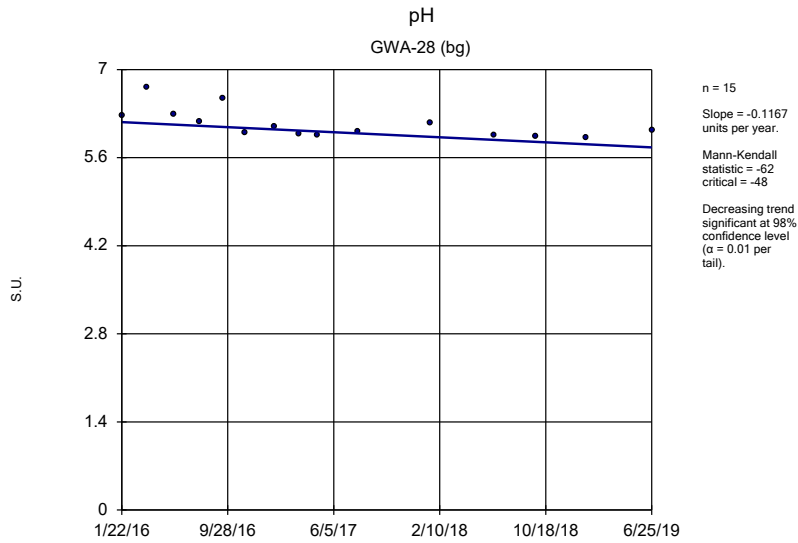




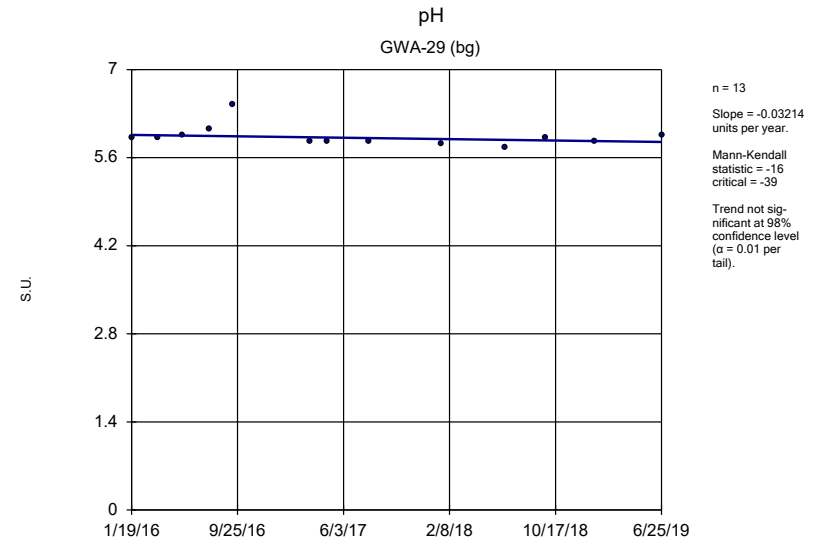
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Plant Wansley Client: Southern Company Data: Wansley Landfill



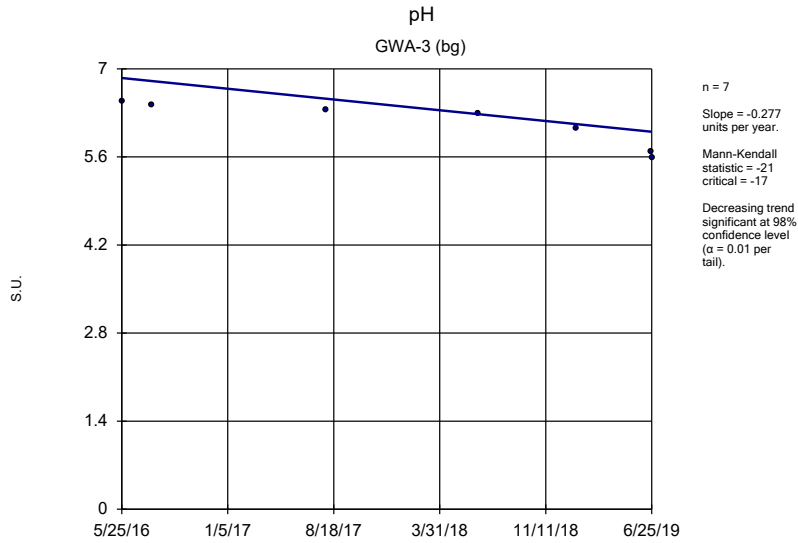
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Plant Wansley Client: Southern Company Data: Wansley Landfill



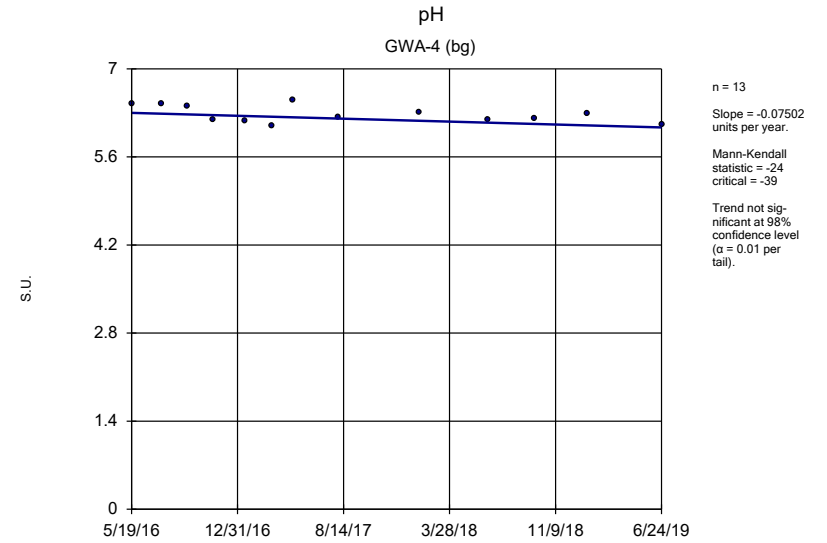
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Plant Wansley Client: Southern Company Data: Wansley Landfill



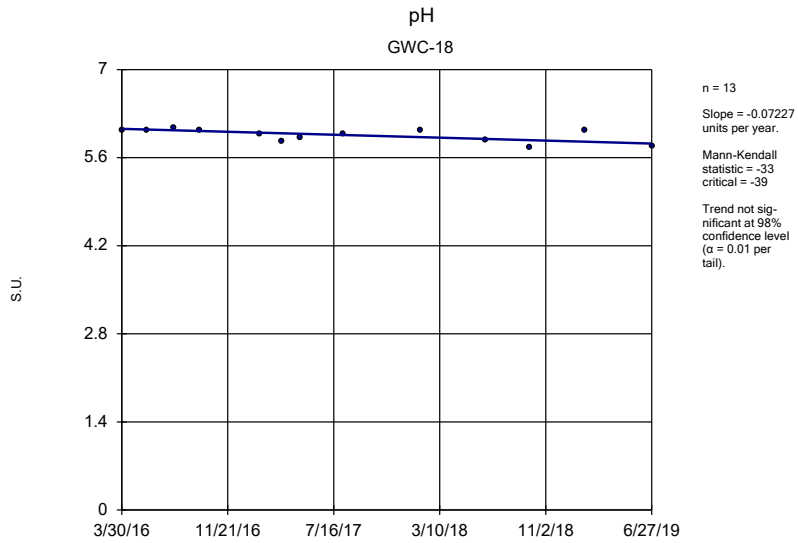
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Plant Wansley Client: Southern Company Data: Wansley Landfill



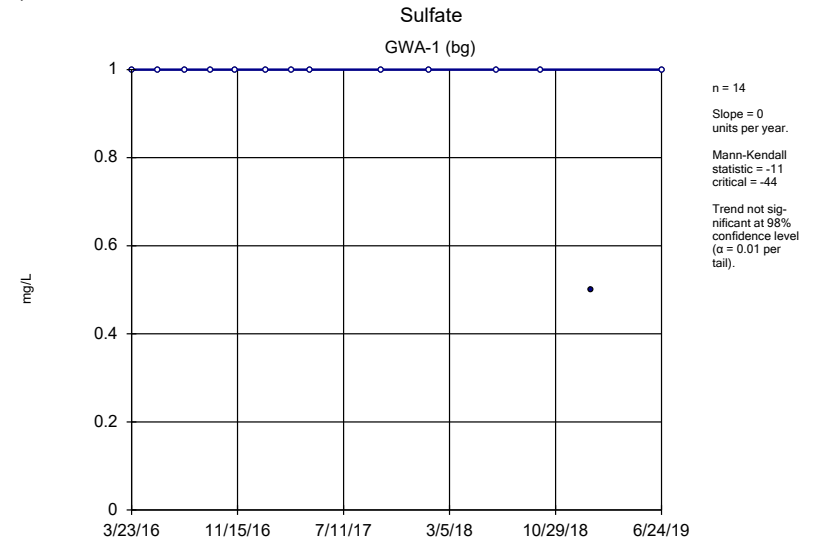
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



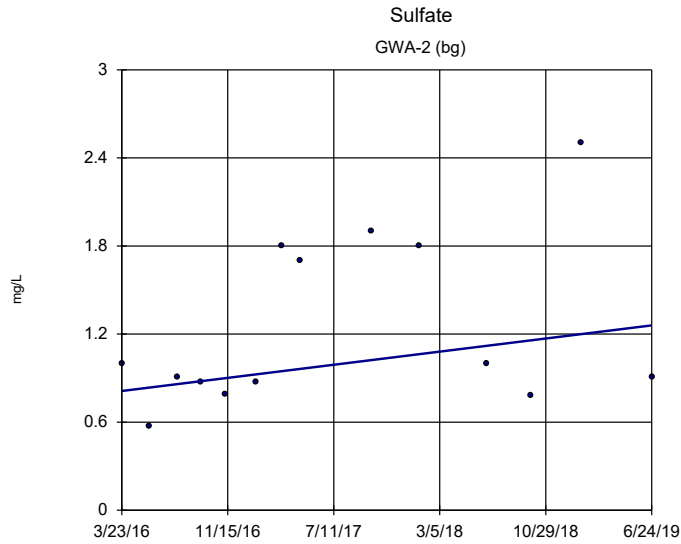
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Plant Wansley Client: Southern Company Data: Wansley Landfill



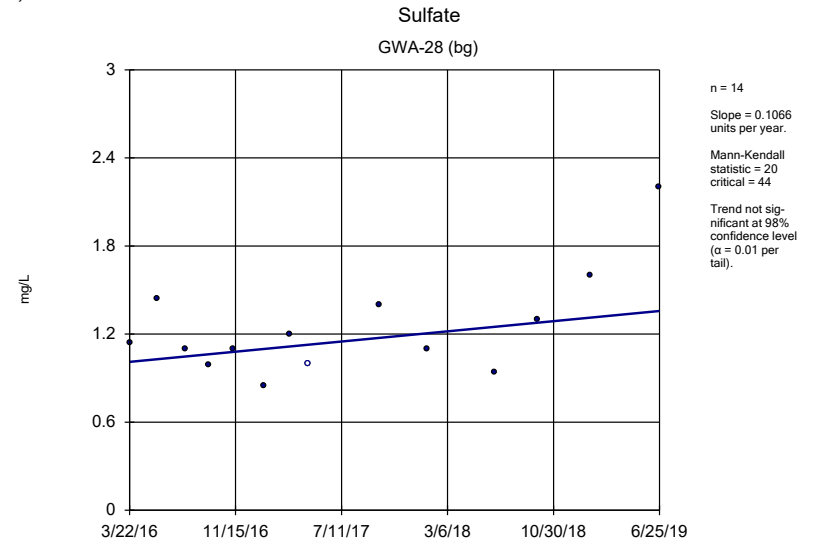
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



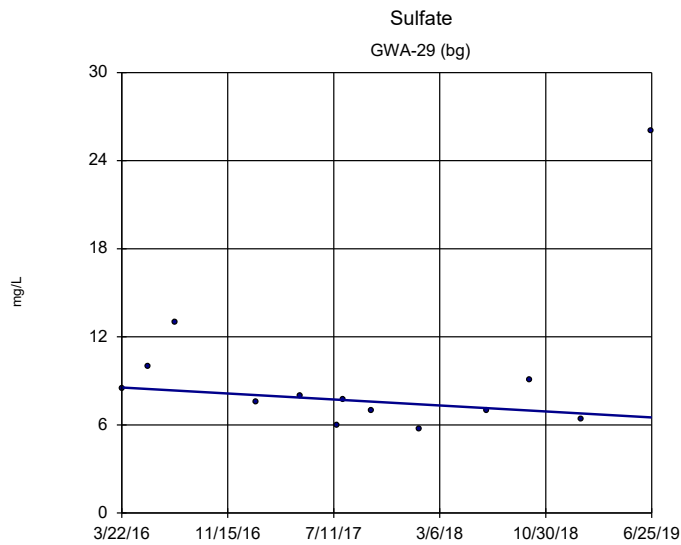
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



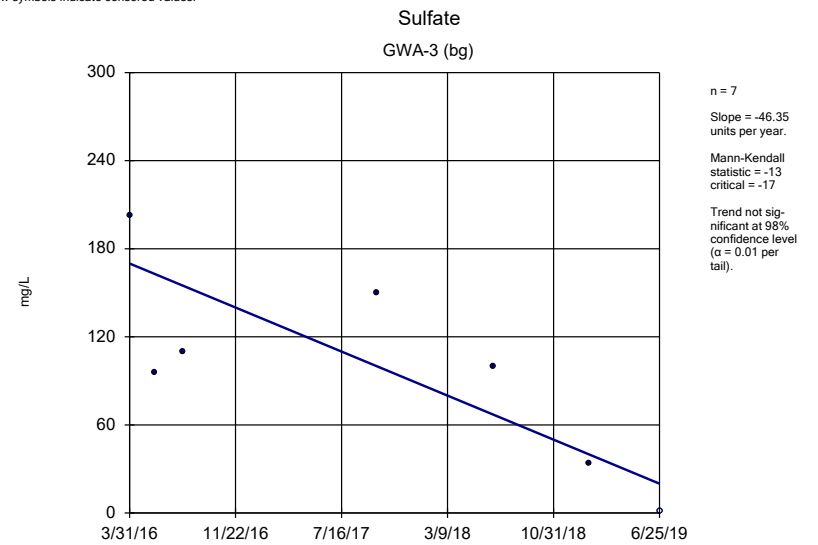
Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:29 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

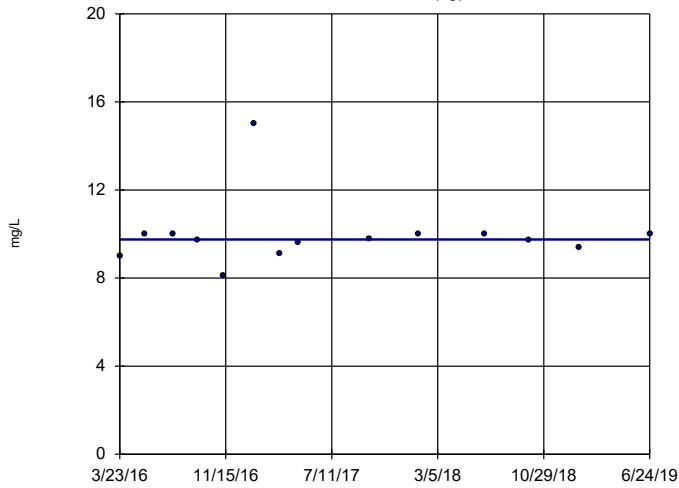


Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



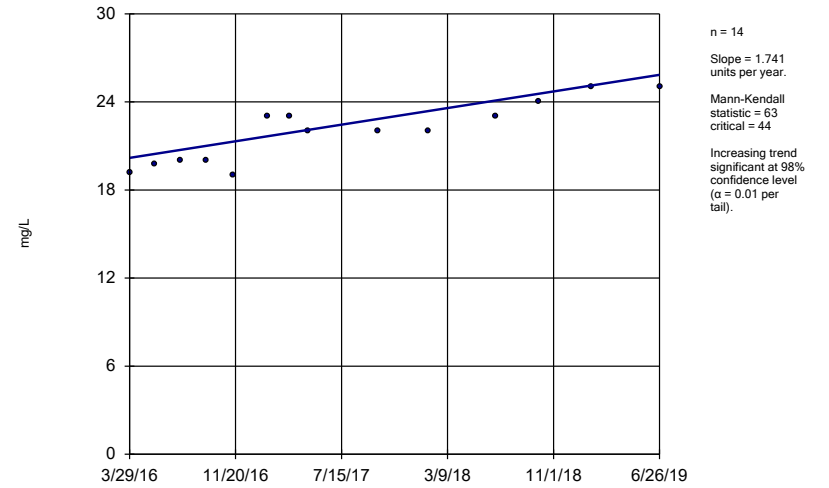
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate GWA-4 (bg)



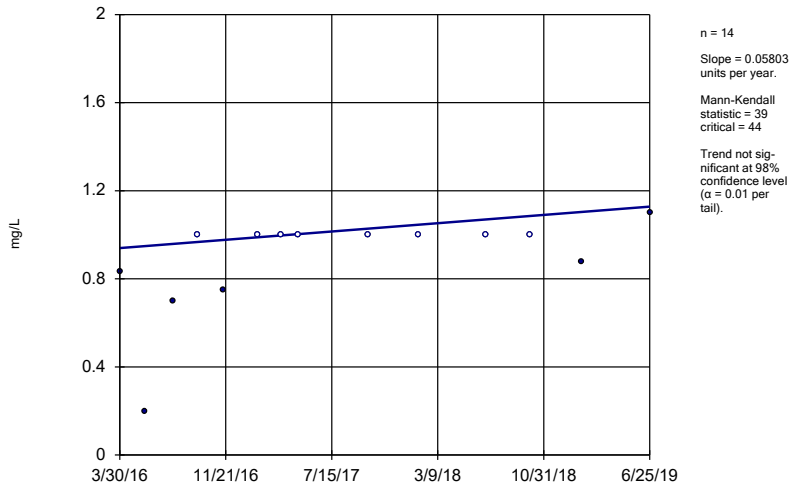
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate GWC-12



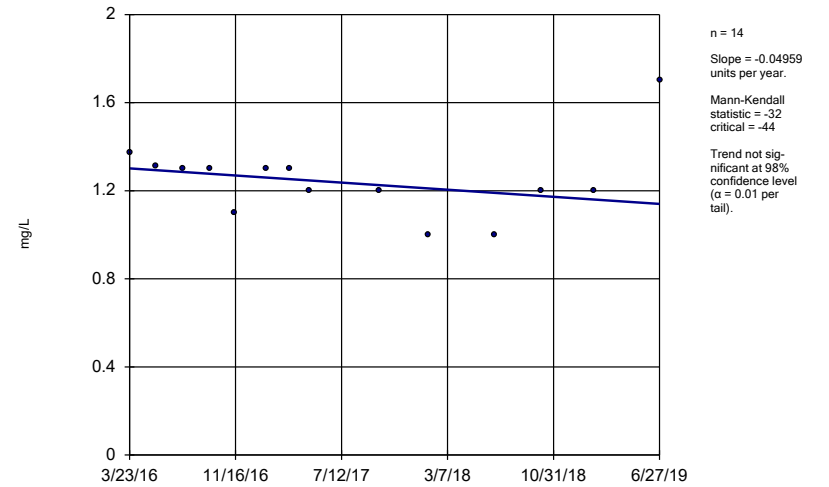
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate GWC-17

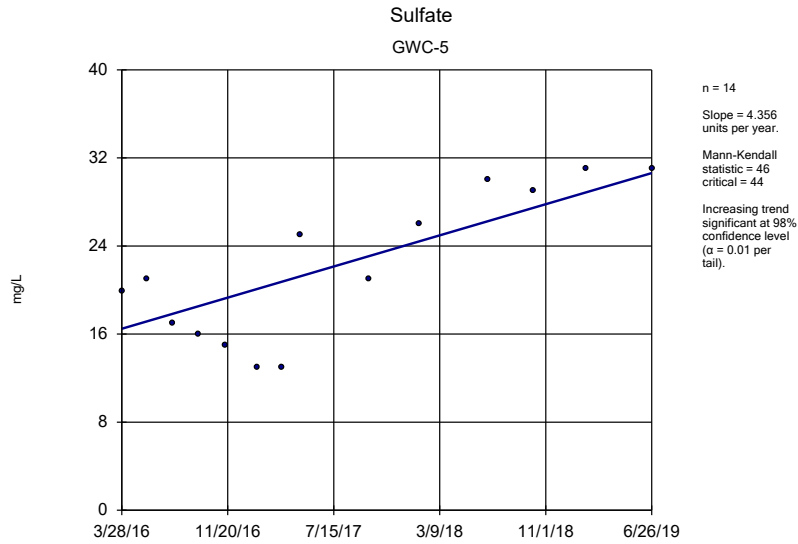


Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

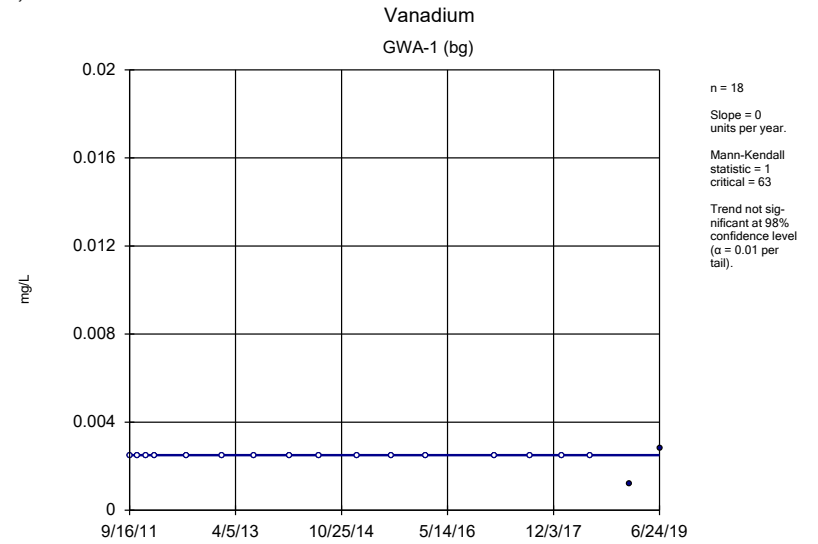
### Sulfate GWC-30



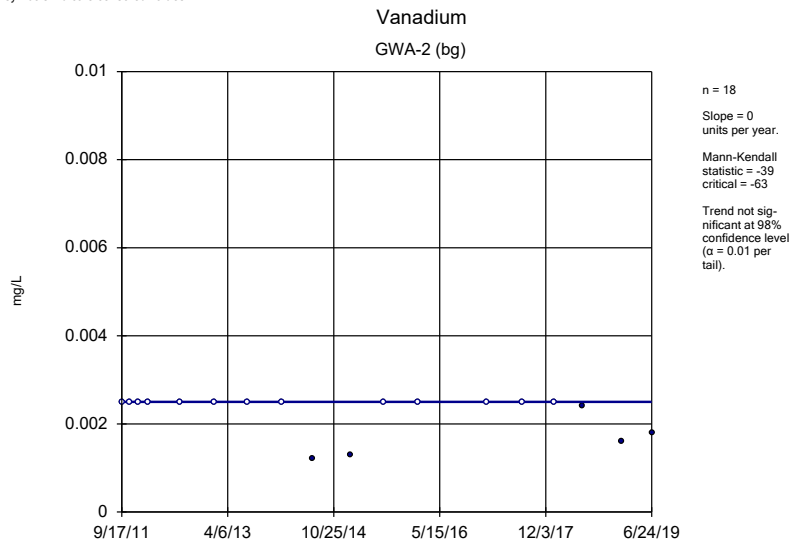
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



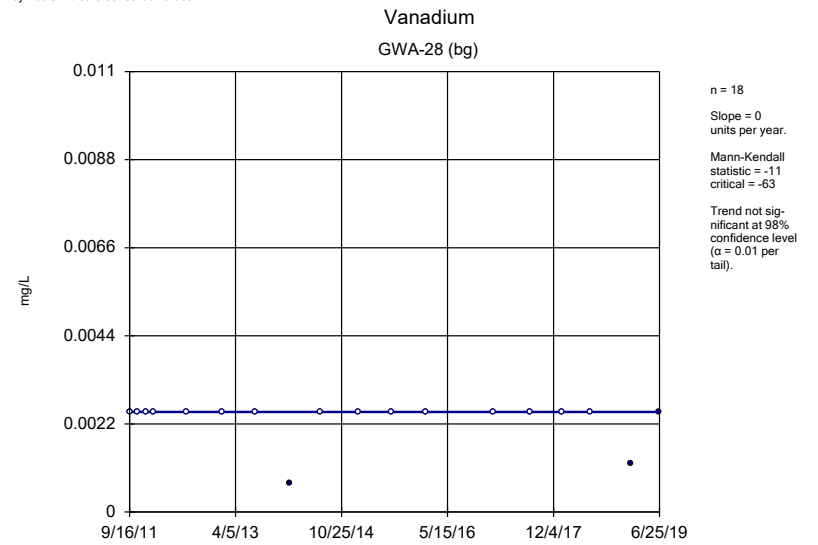
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



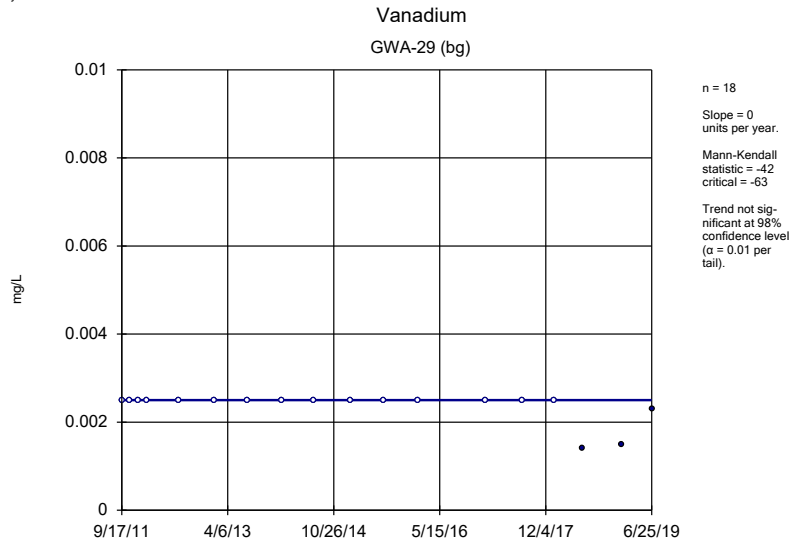
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Plant Wansley Client: Southern Company Data: Wansley Landfill



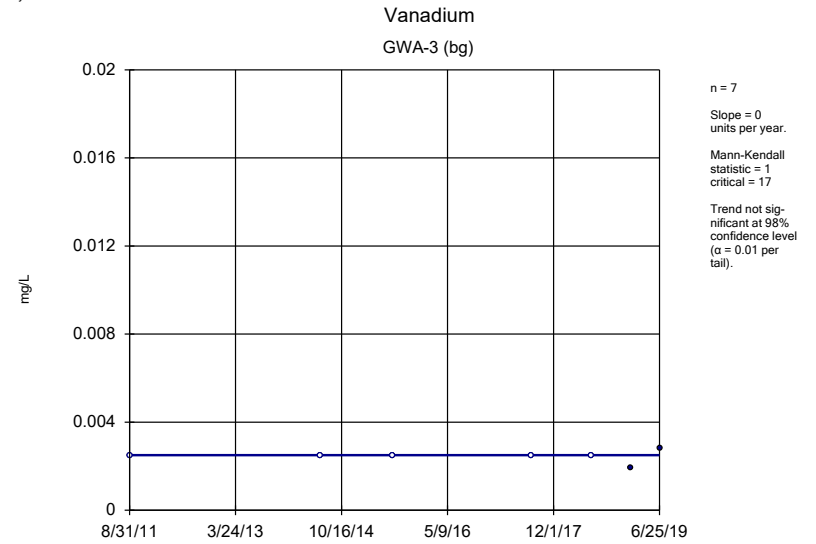
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Plant Wansley Client: Southern Company Data: Wansley Landfill



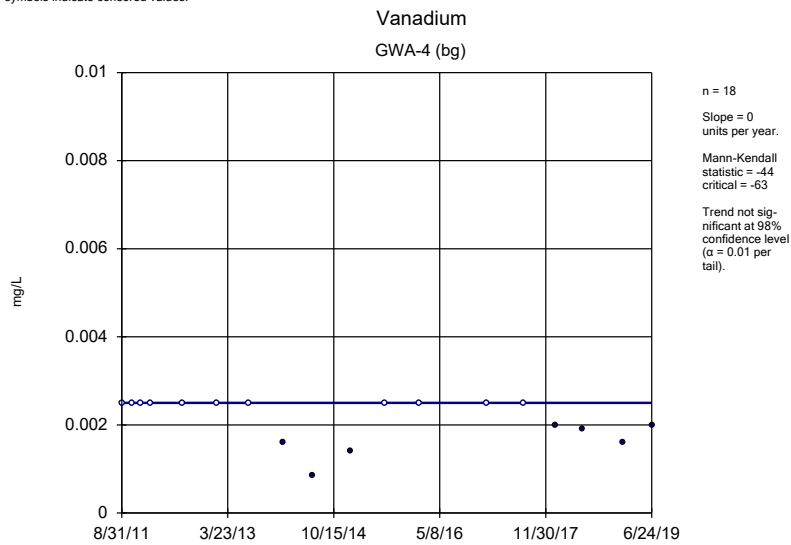
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



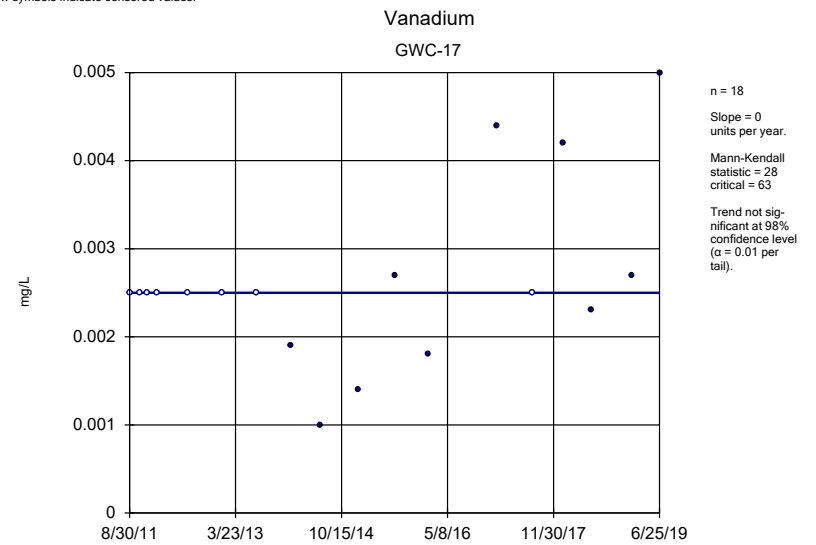
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



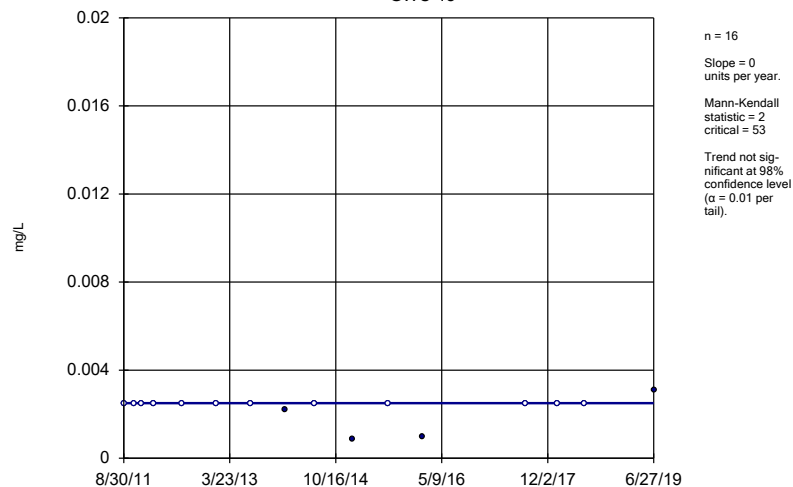
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

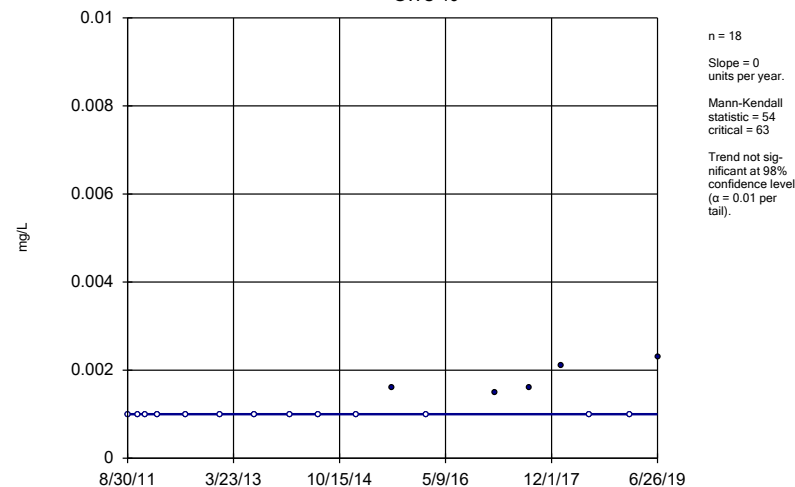


Vanadium  
GWC-18



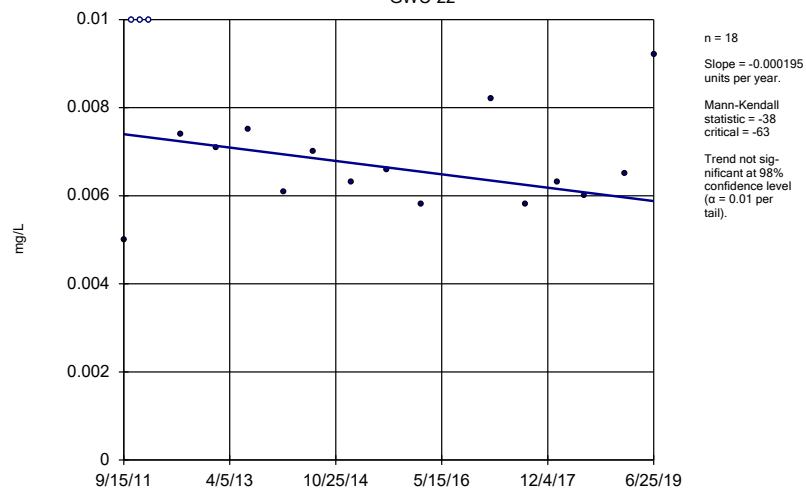
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Vanadium  
GWC-19



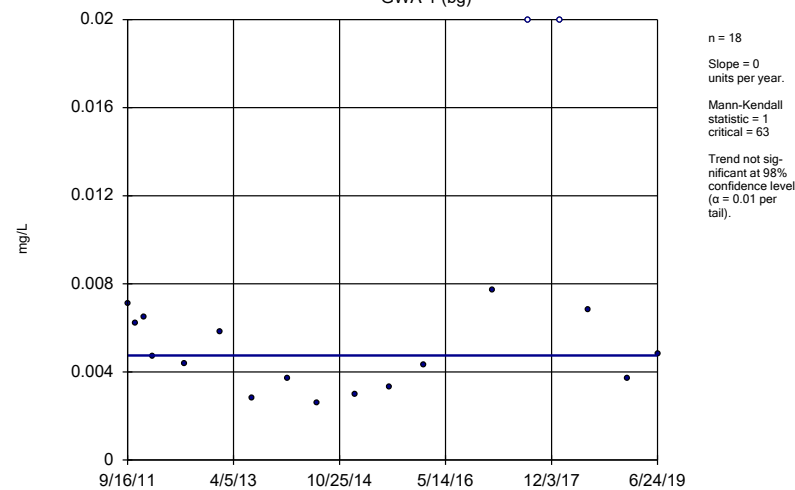
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Vanadium  
GWC-22

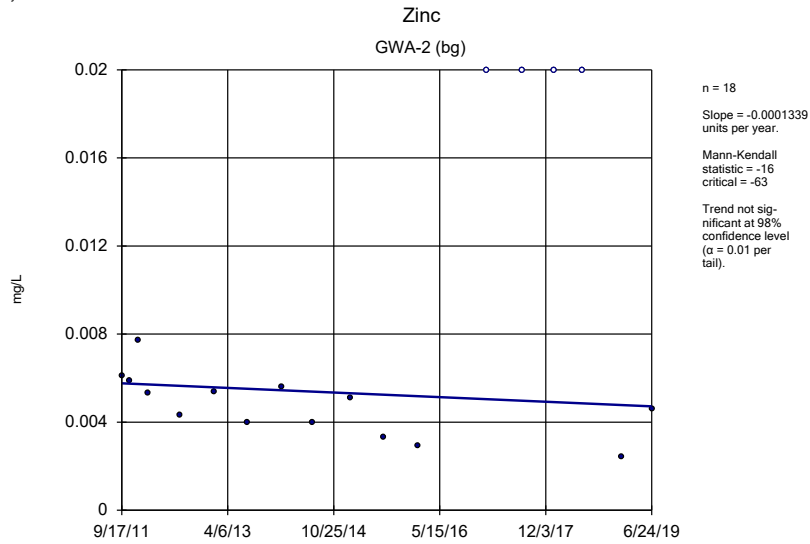


Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

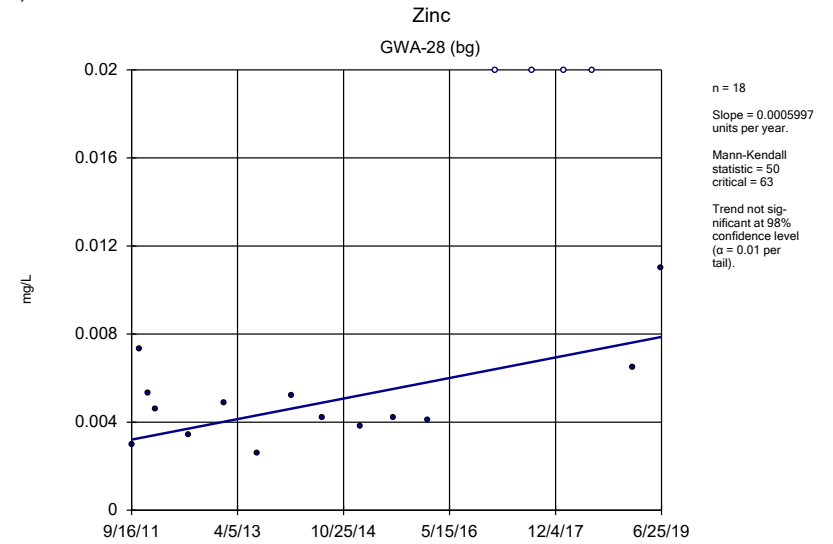
Zinc  
GWA-1 (bg)



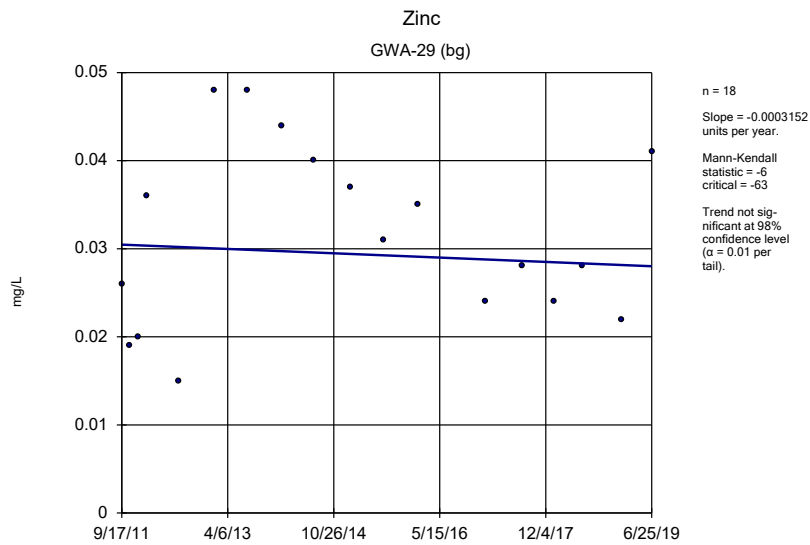
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



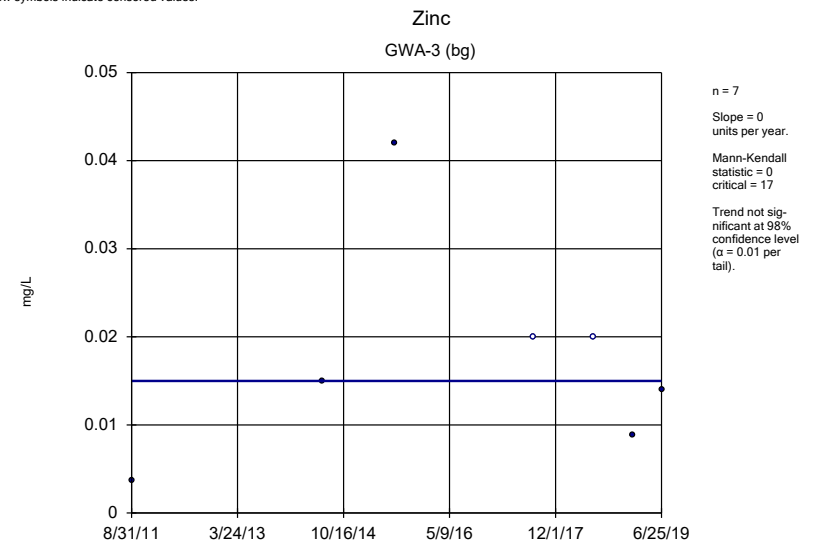
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



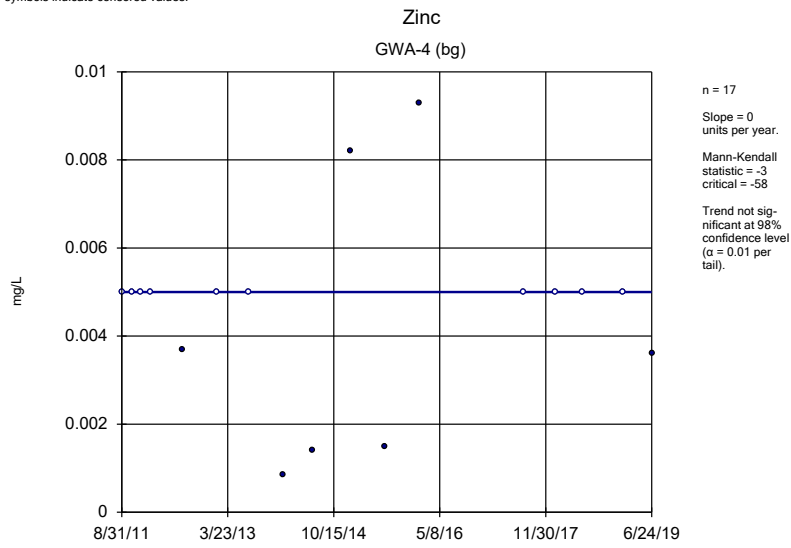
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



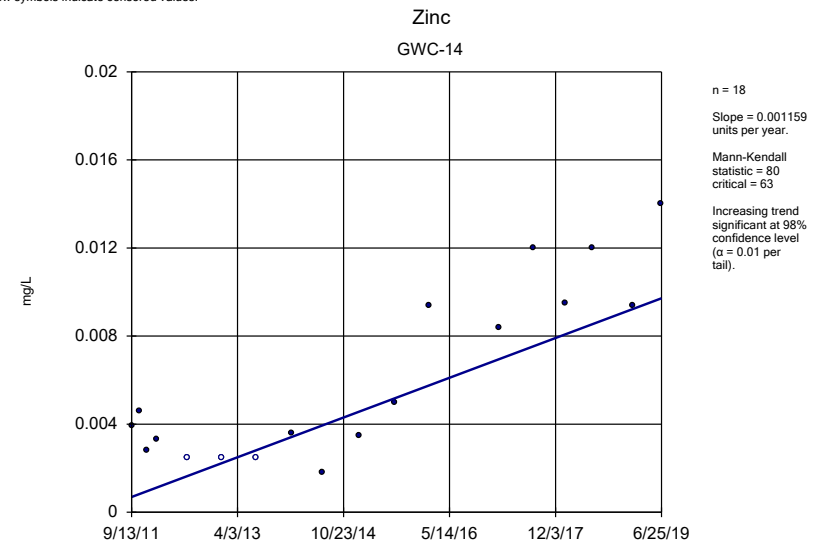
Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 8/9/2019 3:30 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

# Sen's Slope Estimator

Constituent: Barium Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
9/16/2011	0.013		0.0022	
9/17/2011		0.011		0.0016
10/27/2011	0.012	0.013		
10/28/2011			0.0016	0.0015
12/12/2011			0.0018	0.0013
12/13/2011	0.012			
12/14/2011		0.01		
1/25/2012			<0.01	
1/31/2012	0.011			<0.01
2/7/2012		0.014		
7/16/2012			0.0011	
7/17/2012				0.0016
7/18/2012	0.012			
7/23/2012		0.014		
1/23/2013		0.02		
1/24/2013	0.012		<0.01	0.0013
7/17/2013	0.0097			
7/23/2013			<0.01	
7/24/2013		0.016		0.0022
1/21/2014	0.0096			
1/22/2014		0.017	0.0013	0.0012 (J)
6/25/2014	0.0094			
7/1/2014		0.015	0.0012 (J)	
7/8/2014				0.0013 (D)
1/14/2015	0.0095			
1/21/2015			0.00042 (J)	0.0015
1/22/2015		0.019		
7/21/2015	0.0099		0.00055 (J)	
7/22/2015		0.014		0.0014
1/19/2016				0.00092 (JD)
1/20/2016		0.016		
1/21/2016	0.011			
1/22/2016			0.00037 (J)	
3/22/2016			<0.01	<0.01
3/23/2016	0.00968 (J)	0.00773 (J)		
5/19/2016				0.00265 (J)
5/20/2016	0.0096 (J)			
5/23/2016			<0.01	
5/24/2016		0.00761 (J)		
7/21/2016	0.0087			0.0038
7/25/2016			0.001 (J)	
7/26/2016		0.0078		
9/15/2016	0.0086		0.00092 (J)	
9/16/2016		0.017		
11/9/2016			0.0016 (J)	
11/10/2016		0.016		
11/11/2016	0.0095			
1/17/2017			<0.01	0.0011 (J)
1/19/2017	0.0087	0.02		
3/16/2017	0.01		0.00055 (J)	
3/17/2017		0.016		
4/27/2017			<0.01	0.00097 (J)

# Sen's Slope Estimator

Constituent: Barium Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
4/28/2017	0.0091	0.016		
7/18/2017				0.0016 (J)
8/1/2017			0.00059 (J)	0.0011 (J)
8/2/2017		0.014		
8/3/2017	0.0099			
1/19/2018	0.0089	0.014	<0.01	0.00076 (J)
6/19/2018	0.012	0.015	<0.01	0.00078 (J)
1/17/2019	0.01	0.01		
1/18/2019				0.0007 (J)
1/21/2019			0.00088	
6/24/2019	0.0096 (J)	0.011		
6/25/2019			<0.01	<0.01

# Sen's Slope Estimator

Constituent: Barium, Beryllium Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-21	GWA-1 (bg)
8/31/2011	0.1	0.092	0.015	
9/16/2011				<0.0025
10/27/2011		0.061	0.01	<0.0025
12/4/2011			0.011	
12/13/2011				<0.0025
12/14/2011		0.1		
1/31/2012				<0.0025
2/1/2012		0.087		
2/8/2012			0.013	
7/17/2012			0.013	
7/18/2012				<0.0025
7/23/2012		0.13		
1/9/2013			0.013	
1/23/2013		0.11		
1/24/2013				<0.0025
7/16/2013			0.023	
7/17/2013		0.087		<0.0025
1/15/2014		0.081		
1/21/2014			0.026	<0.0025
6/24/2014			0.027	
6/25/2014	0.048	0.081		<0.0025
1/13/2015			0.024	
1/14/2015		0.13		<0.0025
7/21/2015	0.036	0.11		<0.0025
7/23/2015			0.024	
1/20/2016		0.086		
1/21/2016				7.5E-05 (J)
1/26/2016			0.026	
3/23/2016		0.112		<0.0025
3/30/2016			0.0293	
3/31/2016	0.027			
5/19/2016		0.11		
5/20/2016				<0.0025
5/25/2016	0.027			
5/26/2016			0.0237	
7/21/2016		0.14		<0.0025
7/26/2016			0.016	
7/27/2016	0.029			
9/14/2016		0.15		
9/15/2016				<0.0025
9/20/2016			0.014	
11/10/2016		0.17		
11/11/2016				<0.0025
11/17/2016			0.012	
1/17/2017		0.18		
1/19/2017				<0.0025
2/2/2017			0.014	
3/16/2017		0.15		<0.0025
3/28/2017			0.021	
4/27/2017		0.13		
4/28/2017				<0.0025
5/4/2017			0.02	

# Sen's Slope Estimator

Constituent: Barium, Beryllium Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-21	GWA-1 (bg)
8/1/2017	0.03			
8/2/2017		0.15		
8/3/2017				<0.0025
8/7/2017			0.027	
10/3/2017	0.038			
1/19/2018				<0.0025
1/22/2018		0.15		
1/26/2018			0.032	
6/19/2018		0.13		<0.0025
6/20/2018	0.029		0.033	
1/17/2019		0.12		7.4E-05 (J)
1/18/2019	0.033			
1/24/2019			0.046	
6/24/2019		0.12		0.00029 (J)
6/25/2019	0.082		0.046	

# Sen's Slope Estimator

Constituent: Beryllium Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
8/31/2011				<0.001
9/16/2011		<0.0025		
9/17/2011	<0.0025		<0.0013	
10/27/2011	<0.0025			
10/28/2011		<0.0025	<0.0013	
12/12/2011		<0.0025	0.0015	
12/14/2011	<0.0025			
1/25/2012		<0.0025		
1/31/2012			0.0016	
2/7/2012	<0.0025			
7/16/2012		<0.0025		
7/17/2012			0.002	
7/23/2012	<0.0025			
1/23/2013	<0.0025			
1/24/2013		<0.0025	0.0025	
7/23/2013		<0.0025		
7/24/2013	<0.0025		0.0027	
1/22/2014	<0.0025	0.00034 (J)	0.002	
6/25/2014				<0.001
7/1/2014	<0.0025	0.00039 (J)		
7/8/2014			0.0024 (D)	
1/21/2015		0.0005 (J)	0.0026	
1/22/2015	0.00011 (J)			
7/21/2015		0.00042 (J)		<0.001
7/22/2015	<0.0025		0.0024	
1/19/2016			0.0024 (D)	
1/20/2016	0.00012 (J)			
1/22/2016		0.00044 (J)		
3/22/2016		<0.0025	0.00194 (J)	
3/23/2016	<0.0025			
3/31/2016				<0.001
5/19/2016			0.00188 (J)	
5/23/2016		<0.0025		
5/24/2016	<0.0025			
5/25/2016				<0.001
7/21/2016			0.0021 (J)	
7/25/2016		0.00037 (J)		
7/26/2016	<0.0025			
7/27/2016				<0.001
9/15/2016		0.00039 (J)		
9/16/2016	<0.0025			
11/9/2016		0.00041 (J)		
11/10/2016	<0.0025			
1/17/2017		0.0004 (J)	0.0024 (J)	
1/19/2017	<0.0025			
3/16/2017		<0.0025		
3/17/2017	<0.0025			
4/27/2017		0.00042 (J)	0.0019 (J)	
4/28/2017	<0.0025			
7/18/2017			0.0018 (J)	
8/1/2017		0.0004 (J)	0.0019 (J)	<0.001
8/2/2017	<0.0025			



# Sen's Slope Estimator

Constituent: Beryllium Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
10/3/2017				<0.001
1/19/2018	<0.0025	0.00045 (J)	0.0018 (J)	
6/19/2018	<0.0025	0.00038 (J)	0.0021 (J)	
6/20/2018				<0.001
1/17/2019	<0.0025			
1/18/2019			0.0021 (J)	<0.001
1/21/2019		0.00041 (J)		
6/24/2019	0.00023 (J)			
6/25/2019		0.00039 (J)	0.0023	<0.001

# Sen's Slope Estimator

Constituent: Beryllium, Boron Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-32	GWA-1 (bg)	GWA-2 (bg)
8/31/2011	<0.001			
9/15/2011		<0.0013		
10/27/2011	<0.001			
10/31/2011		<0.0013		
12/13/2011		<0.0013		
12/14/2011	<0.001			
2/1/2012	<0.001	<0.0013		
7/17/2012		<0.0013		
7/23/2012	<0.001			
1/23/2013	<0.001	<0.0013		
7/17/2013	<0.001			
7/24/2013		<0.0013		
1/15/2014	<0.001			
1/23/2014		0.00068 (J)		
6/25/2014	<0.001			
7/1/2014		0.00062 (J)		
1/14/2015	<0.001			
1/20/2015		0.00066 (J)		
7/21/2015	<0.001			
7/30/2015		0.001 (J)		
1/20/2016	<0.001			
1/25/2016		0.00066 (J)		
3/23/2016	<0.001	0.000735 (J)	<0.05	<0.08
5/19/2016	<0.001			
5/20/2016			<0.05	
5/24/2016		0.00134 (J)		<0.08
7/21/2016	<0.001		<0.05	
7/22/2016		0.0012 (J)		
7/26/2016				<0.08
9/14/2016	<0.001			
9/15/2016			<0.05	
9/16/2016		0.0015 (J)		<0.08
11/10/2016	<0.001			<0.08
11/11/2016			<0.05	
11/15/2016		0.0015 (J)		
1/17/2017	<0.001			
1/19/2017			<0.05	<0.08
1/26/2017		0.001 (J)		
3/16/2017	<0.001		<0.05	
3/17/2017				<0.08
3/24/2017		0.0016 (J)		
4/27/2017	<0.001			
4/28/2017			<0.05	<0.08
5/2/2017		0.0012 (J)		
8/2/2017	<0.001			
8/3/2017		0.0018 (J)		
10/3/2017				<0.08
10/4/2017			<0.05	
1/19/2018			<0.05	<0.08
1/22/2018	<0.001			
1/23/2018		0.0018 (J)		
6/19/2018	<0.001		<0.05	<0.08

# Sen's Slope Estimator

Constituent: Beryllium, Boron Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-4 (bg)	GWC-32	GWA-1 (bg)	GWA-2 (bg)
6/26/2018		0.0015 (J)		
9/25/2018			<0.05	<0.08
1/17/2019	<0.001		<0.05	<0.08
1/30/2019		0.0016 (J)		
6/24/2019	<0.001		0.034 (J)	<0.08
6/27/2019		0.0017		

# Sen's Slope Estimator

Constituent: Boron Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
3/22/2016	<0.08	<0.08		
3/23/2016				<0.08
3/31/2016			<0.08	
5/19/2016		<0.08		<0.08
5/23/2016	<0.08			
5/25/2016			<0.08	
7/21/2016		<0.08		<0.08
7/25/2016	<0.08			
7/27/2016			<0.08	
9/14/2016				<0.08
9/15/2016	<0.08			
11/9/2016	<0.08			
11/10/2016				<0.08
1/17/2017	<0.08	<0.08		<0.08
3/16/2017	<0.08			<0.08
4/27/2017	<0.08	<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
1/19/2018	<0.08	<0.08		
1/22/2018				<0.08
6/19/2018	<0.08	<0.08		<0.08
6/20/2018			<0.08	
9/25/2018	<0.08	<0.08		<0.08
1/17/2019				<0.08
1/18/2019		<0.08	<0.08	
1/21/2019	<0.08			
6/24/2019				<0.08
6/25/2019	<0.08	<0.08	<0.08	

# Sen's Slope Estimator

Constituent: Boron, Chloride Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)
3/22/2016				1.3716
3/23/2016		1.8057	2.5102	
3/30/2016	0.291			
5/20/2016		1.84		
5/23/2016				1.33
5/24/2016			4.52	
5/25/2016	0.443			
7/21/2016		1.9		
7/25/2016				1.4
7/26/2016	1.1		4	
9/15/2016	0.61	1.8		1.3
9/16/2016			4.1	
11/9/2016				1.4
11/10/2016			4.6	
11/11/2016		1.8		
11/17/2016	1			
1/17/2017				1.3
1/19/2017		1.8	5.6	
2/1/2017	0.29			
3/16/2017		1.7		1.2
3/17/2017			4.4	
3/23/2017	0.44			
4/27/2017				1.2
4/28/2017		1.7	4.7	
5/3/2017	0.44			
10/3/2017			4.7	1.2
10/4/2017	0.95	1.7		
1/19/2018		1.6	4.3	1.1
1/25/2018	0.43			
6/19/2018		1.7	3.6	1.2
6/20/2018	1.2			
9/25/2018		1.7	4.9	1.2
10/1/2018	0.57			
1/17/2019		1.8	3.7	
1/21/2019				1.2
1/22/2019	0.63			
6/24/2019		1.7	6.1	
6/25/2019	0.71			1.3

# Sen's Slope Estimator

Constituent: Chloride Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-14
3/22/2016	1.5096			
3/23/2016			9.041	
3/30/2016				49.11
3/31/2016		8.3045		
5/19/2016	1.51		13.1	
5/25/2016		10.1		65.8
7/21/2016	1.6		17	
7/26/2016				64
7/27/2016		10		
9/14/2016			17	
9/15/2016				110
11/10/2016			23	
11/17/2016				180
1/17/2017	1.3		14	
2/1/2017				46
3/16/2017			16	
3/23/2017				68
4/27/2017	1.4		15	
5/3/2017				49
7/18/2017	1.2			
8/1/2017	1.3			
10/3/2017	1.2	9.5	17	
10/4/2017				160
1/19/2018	1			
1/22/2018			15	
1/25/2018				52
6/19/2018	1.2		12	
6/20/2018		12		150
9/25/2018	1.2		17	
10/1/2018				74
1/17/2019			11	
1/18/2019	1.3	19		
1/22/2019				80
6/24/2019			11	
6/25/2019	24	<1		82

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
9/16/2011	0.0015		<0.0025	
9/17/2011		<0.0025		<0.0025
10/27/2011	<0.0025	<0.0025		
10/28/2011			<0.0025	<0.0025
12/12/2011			<0.0025	<0.0025
12/13/2011	<0.0025			
12/14/2011		<0.0025		
1/25/2012			<0.0025	
1/31/2012	<0.0025			<0.0025
2/7/2012		<0.0025		
7/16/2012			<0.0025	
7/17/2012				<0.0025
7/18/2012	<0.0025			
7/23/2012		<0.0025		
1/23/2013		<0.0025		
1/24/2013	<0.0025		<0.0025	<0.0025
7/17/2013	<0.0025			
7/23/2013			<0.0025	
7/24/2013		<0.0025		0.0013
1/21/2014	<0.0025			
1/22/2014		<0.0025	0.002	<0.0025
6/25/2014	<0.0025			
7/1/2014		<0.0025	<0.0025	
7/8/2014				<0.0025 (D)
1/14/2015	<0.0025			
1/21/2015			<0.0025	<0.0025
1/22/2015		<0.0025		
7/21/2015	<0.0025		<0.0025	
7/22/2015		<0.0025		<0.0025
1/19/2016				<0.0025 (D)
1/20/2016		<0.0025		
1/21/2016	<0.0025			
1/22/2016			<0.0025	
3/22/2016			<0.0025	<0.0025
3/23/2016	<0.0025	<0.0025		
5/19/2016				0.00684 (J)
5/20/2016	<0.0025			
5/23/2016			<0.0025	
5/24/2016		<0.0025		
7/21/2016	<0.0025			<0.0025
7/25/2016			<0.0025	
7/26/2016		<0.0025		
9/15/2016	<0.0025		0.0082	
9/16/2016		0.0019 (J)		
11/9/2016			0.0044	
11/10/2016		<0.0025		
11/11/2016	<0.0025			
1/17/2017			<0.0025	<0.0025
1/19/2017	<0.0025	<0.0025		
3/16/2017	<0.0025		<0.0025	
3/17/2017		<0.0025		
4/27/2017			<0.0025	<0.0025

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
4/28/2017	<0.0025	<0.0025		
7/18/2017				<0.0025
8/1/2017			<0.0025	0.0015 (J)
8/2/2017		<0.0025		
8/3/2017	<0.0025			
1/19/2018	<0.0025	<0.0025	<0.0025	<0.0025
6/19/2018	<0.0025	0.0011 (J)	<0.0025	<0.0025
1/17/2019	0.0012 (J)	0.0016 (J)		
1/18/2019				0.002 (J)
1/21/2019			0.0014 (J)	
6/24/2019	0.0042	0.0022		
6/25/2019			0.0024	0.003



# Sen's Slope Estimator

Constituent: Chromium Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-16	GWC-17
8/30/2011			0.0028	0.0014
8/31/2011	<0.0025	0.0014		
10/26/2011			0.0023	<0.0025
10/27/2011		<0.0025		
12/3/2011				<0.0025
12/14/2011		<0.0025		
1/25/2012				<0.0025
2/1/2012		<0.0025		
7/11/2012			0.0022	<0.0025
7/23/2012		0.0014		
1/8/2013			0.0023	<0.0025
1/23/2013		<0.0025		
7/2/2013			0.0024	
7/16/2013				<0.0025
7/17/2013		<0.0025		
1/14/2014			0.0023	<0.0025
1/15/2014		<0.0025		
6/25/2014	<0.0025	<0.0025	0.0024	<0.0025
1/13/2015			0.0024	
1/14/2015		<0.0025		<0.0025
7/21/2015	<0.0025	<0.0025		
7/22/2015			0.0023	
7/28/2015				<0.0025
1/20/2016		<0.0025		
1/27/2016			0.0022	<0.0025
3/23/2016		<0.0025		
3/30/2016			0.00261 (J)	<0.0025
3/31/2016	<0.0025			
5/19/2016		<0.0025		
5/25/2016	<0.0025		0.00238 (J)	<0.0025
7/21/2016		<0.0025		
7/27/2016	<0.0025		0.0025	<0.0025
9/14/2016		<0.0025		
9/16/2016			0.0023 (J)	
9/19/2016				<0.0025
11/10/2016		<0.0025		
11/17/2016			0.0022 (J)	<0.0025
1/17/2017		<0.0025		
2/1/2017			0.0024 (J)	<0.0025
3/16/2017		<0.0025		
3/24/2017			0.0026	<0.0025
4/27/2017		<0.0025		
5/3/2017			0.0022 (J)	<0.0025
8/1/2017	<0.0025			
8/2/2017		<0.0025		
8/7/2017			0.0023 (J)	<0.0025
10/3/2017	0.0013 (J)			
1/22/2018		<0.0025		
1/25/2018			0.0023 (J)	<0.0025
6/19/2018		<0.0025		
6/20/2018	<0.0025		0.0025	
6/26/2018				<0.0025

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-3 (bg)	GWA-4 (bg)	GWC-16	GWC-17
1/17/2019		0.0013 (J)		
1/18/2019	0.0017 (J)			
1/24/2019				0.0014 (J)
6/24/2019		0.0022		
6/25/2019	0.0027		0.0045	0.0042

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-24	GWC-26	GWC-5
8/31/2011				<0.0025
9/15/2011	<0.0025			
9/17/2011			0.0018	
10/27/2011				<0.0025
10/29/2011	<0.0025		<0.0025	
12/5/2011				<0.0025
12/13/2011	<0.0025			
12/14/2011			<0.0025	
1/25/2012	<0.0025			<0.0025
2/7/2012			<0.0025	
7/17/2012			<0.0025	
7/18/2012	0.0016			<0.0025
1/9/2013				<0.0025
1/22/2013	0.0019			
1/24/2013			<0.0025	
7/16/2013	<0.0025			
7/17/2013				<0.0025
7/24/2013			<0.0025	
1/15/2014				<0.0025
1/21/2014	<0.0025			
1/23/2014			<0.0025	
6/25/2014	0.0011 (J)			<0.0025
7/8/2014		<0.0025	<0.0025	
1/13/2015				0.0012 (J)
1/14/2015	<0.0025			
1/21/2015			<0.0025	
7/23/2015	0.0015			
7/24/2015				<0.0025
7/31/2015		<0.0025	<0.0025	
1/20/2016		<0.0025		<0.0025
1/25/2016			<0.0025	
1/26/2016	<0.0025			
3/24/2016			<0.0025	
3/28/2016				<0.0025
3/30/2016		<0.0025		
3/31/2016	<0.0025			
5/23/2016				<0.0025
5/25/2016		<0.0025	<0.0025	
5/26/2016	<0.0025			
7/21/2016				0.0011 (J)
7/26/2016	<0.0025		<0.0025	
7/27/2016		<0.0025		
9/15/2016				<0.0025
9/16/2016		<0.0025		
9/19/2016			<0.0025	
9/20/2016	0.0011 (J)			
11/14/2016			<0.0025	
11/15/2016				<0.0025
11/17/2016	<0.0025			
11/18/2016		<0.0025		
1/19/2017			<0.0025	
1/26/2017				0.0013 (J)

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-24	GWC-26	GWC-5
2/3/2017	0.0011 (J)	0.0011 (J)		
3/16/2017			<0.0025	
3/28/2017	0.0027			
3/29/2017		<0.0025		
5/1/2017			<0.0025	
5/2/2017				<0.0025
5/3/2017	0.0018 (J)			
5/4/2017		<0.0025		
8/3/2017			<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025		
1/22/2018			<0.0025	
1/23/2018				<0.0025
1/25/2018	<0.0025	<0.0025		
6/20/2018	0.0015 (J)			
6/25/2018				<0.0025
6/27/2018		<0.0025	<0.0025	
1/24/2019	0.0021 (J)		0.0018 (J)	
1/30/2019				0.0021 (J)
1/31/2019		0.0022 (J)		
6/25/2019	0.003		0.003	
6/26/2019		0.0027		0.0029

# Sen's Slope Estimator

Constituent: Chromium, Cobalt Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-9	GWA-1 (bg)	GWA-2 (bg)
8/31/2011	<0.0025			
9/7/2011		0.0013		
9/16/2011			<0.0025	
9/17/2011				<0.0025
10/27/2011			<0.0025	<0.0025
10/30/2011		<0.0025		
12/4/2011		0.0021		
12/5/2011	<0.0025			
12/13/2011			<0.0025	
12/14/2011				<0.0025
1/19/2012		<0.0025		
1/25/2012	<0.0025			
1/31/2012			<0.0025	
2/7/2012				<0.0025
7/18/2012		<0.0025	<0.0025	
7/23/2012				<0.0025
7/24/2012	<0.0025			
1/8/2013	<0.0025	0.0019		
1/23/2013				<0.0025
1/24/2013			<0.0025	
7/9/2013	<0.0025	0.002		
7/17/2013			<0.0025	
7/24/2013				<0.0025
1/14/2014		<0.0025		
1/15/2014	<0.0025			
1/21/2014			<0.0025	
1/22/2014				<0.0025
6/24/2014		0.0029		
6/25/2014	<0.0025		<0.0025	
7/1/2014				0.00056 (J)
1/14/2015			0.00068 (J)	
1/20/2015	<0.0025	<0.0025		
1/22/2015				0.00067 (J)
7/21/2015			<0.0025	
7/22/2015				<0.0025
7/24/2015	<0.0025			
7/27/2015		0.0013		
1/20/2016	<0.0025			<0.0025
1/21/2016			<0.0025	
1/26/2016		<0.0025		
3/23/2016			<0.0025	<0.0025
3/28/2016	<0.0025			
3/29/2016		<0.0025		
5/20/2016			<0.0025	
5/24/2016	<0.0025	<0.0025		<0.0025
7/21/2016	<0.0025		<0.0025	
7/25/2016		<0.0025		
7/26/2016				<0.0025
9/15/2016	<0.0025		<0.0025	
9/16/2016				0.0011 (J)
9/19/2016		<0.0025		
11/10/2016				<0.0025

# Sen's Slope Estimator

Constituent: Chromium, Cobalt Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-9	GWA-1 (bg)	GWA-2 (bg)
11/11/2016			<0.0025	
11/16/2016	<0.0025	<0.0025		
1/19/2017			<0.0025	<0.0025
1/26/2017	<0.0025			
1/31/2017		0.0015 (J)		
3/16/2017			<0.0025	
3/17/2017				<0.0025
3/22/2017	<0.0025			
3/23/2017		0.0021 (J)		
4/28/2017			0.00044 (J)	0.00045 (J)
5/2/2017	<0.0025	0.0016 (J)		
8/2/2017				<0.0025
8/3/2017	<0.0025		<0.0025	
8/7/2017		0.0024 (J)		
1/19/2018			<0.0025	<0.0025
1/23/2018	<0.0025			
1/24/2018		0.0019 (J)		
6/19/2018			<0.0025	0.00061 (J)
6/21/2018		0.0023 (J)		
6/25/2018	<0.0025			
1/17/2019			0.00033 (J)	0.00018 (J)
1/22/2019		0.0027		
1/30/2019	0.002 (J)			
6/24/2019			0.00019 (J)	0.00019 (J)
6/25/2019		0.0048		
6/26/2019	0.0027			

# Sen's Slope Estimator

Constituent: Cobalt Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
8/31/2011			0.0028	0.0028
9/16/2011	<0.0005			
9/17/2011		<0.0025		
10/27/2011				<0.0025
10/28/2011	<0.0005	<0.0025		
12/12/2011	<0.0005	<0.0025		
12/14/2011				<0.0025
1/25/2012	<0.0005			
1/31/2012		<0.0025		
2/1/2012				0.0027
7/16/2012	<0.0005			
7/17/2012		<0.0025		
7/23/2012				0.0073
1/23/2013				0.0029
1/24/2013	<0.0005	<0.0025		
7/17/2013				0.0033
7/23/2013	<0.0005			
7/24/2013		<0.0025		
1/15/2014				0.0076
1/22/2014	<0.0005	<0.0025		
6/25/2014			0.00075 (J)	0.0044
7/1/2014	<0.0005			
7/8/2014		<0.0025		
1/14/2015				0.015
1/21/2015	<0.0005	<0.0025		
7/21/2015	<0.0005		0.00066 (J)	0.0053
7/22/2015		<0.0025		
1/19/2016		<0.0025 (D)		
1/20/2016				0.0034
1/22/2016	<0.0005			
3/22/2016	<0.0005	<0.0025		
3/23/2016				0.00443 (J)
3/31/2016			<0.0025	
5/19/2016		<0.0025		0.00361 (J)
5/23/2016	<0.0005			
5/25/2016			<0.0025	
7/21/2016		<0.0025		0.0058
7/25/2016	<0.0005			
7/27/2016			<0.0025	
9/14/2016				0.0075
9/15/2016	<0.0005			
11/9/2016	<0.0005			
11/10/2016				0.01
1/17/2017	<0.0005	<0.0025		0.013
3/16/2017	<0.0005			0.0059
4/27/2017	<0.0005	<0.0025		0.0052
7/18/2017		<0.0025		
8/1/2017	<0.0005	<0.0025	<0.0025	
8/2/2017				0.005
10/3/2017			<0.0025	
1/19/2018	<0.0005	<0.0025		
1/22/2018				0.0046

# Sen's Slope Estimator

Constituent: Cobalt Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
6/19/2018	<0.0005	<0.0025		0.005
6/20/2018			<0.0025	
1/17/2019				0.0038
1/18/2019		<0.0025	0.00011 (J)	
1/21/2019	<0.0005			
6/24/2019				0.006
6/25/2019	<0.0005	0.00012 (J)	0.00042 (J)	



# Sen's Slope Estimator

Constituent: Cobalt, Copper Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)
9/13/2011	<0.0013			
9/16/2011		<0.002		<0.002
9/17/2011			<0.002	
10/27/2011		<0.002	<0.002	
10/28/2011				<0.002
12/3/2011	0.0037			
12/12/2011				<0.002
12/13/2011		<0.002		
12/14/2011			<0.002	
1/24/2012	0.021			
1/25/2012				<0.002
1/31/2012		<0.002		
2/7/2012			<0.002	
7/11/2012	<0.0013			
7/16/2012				<0.002
7/18/2012		<0.002		
7/23/2012			<0.002	
1/8/2013	<0.0013			
1/23/2013			<0.002	
1/24/2013		<0.002		<0.002
7/10/2013	0.0014			
7/17/2013		<0.002		
7/23/2013				<0.002
7/24/2013			<0.002	
1/21/2014		<0.002		
1/22/2014			<0.002	0.0012 (J)
6/25/2014		<0.002		
7/1/2014	0.0011 (J)		0.0011 (J)	<0.002
1/14/2015	0.019	<0.002		
1/21/2015				<0.002
1/22/2015			<0.002	
7/21/2015		<0.002		<0.002
7/22/2015	0.016		0.0012 (J)	
1/20/2016			<0.002	
1/21/2016		<0.002		
1/22/2016				<0.002
1/27/2016	0.45			
3/30/2016	0.176			
4/20/2016	0.13			
5/25/2016	0.0616			
7/26/2016	0.32			
9/15/2016	0.014			
11/17/2016	0.01			
1/17/2017				<0.002
1/19/2017		<0.002	<0.002	
2/1/2017	0.2			
3/23/2017	0.14			
5/3/2017	0.23			
8/1/2017				<0.002
8/2/2017			<0.002	
8/3/2017		<0.002		
8/7/2017	0.026			

# Sen's Slope Estimator

Constituent: Cobalt, Copper Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)
1/19/2018		<0.002	<0.002	<0.002
1/25/2018	0.23			
6/19/2018		<0.002	<0.002	<0.002
6/20/2018	0.048			
1/17/2019		<0.002	<0.002	
1/21/2019				<0.002
1/22/2019	0.22			
6/24/2019		<0.002	0.0011 (J)	
6/25/2019	0.23			<0.002

# Sen's Slope Estimator

Constituent: Copper, Nickel Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWA-1 (bg)
8/31/2011		<0.002	<0.002	
9/16/2011				<0.0025
9/17/2011	<0.013			
10/27/2011			<0.002	<0.0025
10/28/2011	<0.013			
12/12/2011	<0.013			
12/13/2011				<0.0025
12/14/2011			<0.002	
1/31/2012	0.018			<0.0025
2/1/2012			<0.002	
7/17/2012	0.0066			
7/18/2012				<0.0025
7/23/2012			<0.002	
1/23/2013			<0.002	
1/24/2013	0.015			<0.0025
7/17/2013			<0.002	<0.0025
7/24/2013	0.015			
1/15/2014			<0.002	
1/21/2014				<0.0025
1/22/2014	0.015			
6/25/2014		0.0016 (J)	<0.002	<0.0025
7/8/2014	0.0081 (D)			
1/14/2015			<0.002	<0.0025
1/21/2015	0.0088			
7/21/2015		<0.002	<0.002	<0.0025
7/22/2015	0.0072			
1/19/2016	0.0083 (D)			
1/20/2016			<0.002	
1/21/2016				<0.0025
1/17/2017	0.0065		<0.002	
1/19/2017				<0.0025
8/1/2017	0.0044	<0.002		
8/2/2017			<0.002	
8/3/2017				<0.0025
1/19/2018	0.0046			<0.0025
1/22/2018			<0.002	
6/19/2018	0.0063		<0.002	<0.0025
6/20/2018		<0.002		
1/17/2019			<0.002	0.00094 (J)
1/18/2019	0.0059	<0.002		
6/24/2019			<0.002	0.00095 (J)
6/25/2019	0.0085	0.004		

# Sen's Slope Estimator

Constituent: Nickel Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
8/31/2011				<0.0025
9/16/2011		<0.0025		
9/17/2011	<0.0025		0.0053	
10/27/2011	<0.0025			
10/28/2011		<0.0025	0.0042	
12/12/2011		<0.0025	<0.0025	
12/14/2011	<0.0025			
1/25/2012		<0.0025		
1/31/2012			0.0043	
2/7/2012	0.0028			
7/16/2012		<0.0025		
7/17/2012			<0.0025	
7/23/2012	<0.0025			
1/23/2013	<0.0025			
1/24/2013		<0.0025	0.0052	
7/23/2013		<0.0025		
7/24/2013	<0.0025		0.0052	
1/22/2014	0.0013 (J)	0.00092 (J)	0.0031	
6/25/2014				0.0044
7/1/2014	0.0014 (J)	<0.0025		
7/8/2014			0.0036 (D)	
1/21/2015		<0.0025	0.0026	
1/22/2015	0.0017 (J)			
7/21/2015		<0.0025		0.0056
7/22/2015	0.0013 (J)		0.0028	
1/19/2016			0.0021 (JD)	
1/20/2016	<0.0025			
1/22/2016		<0.0025		
1/17/2017		<0.0025	0.0022 (J)	
1/19/2017	<0.0025			
8/1/2017		<0.0025	0.0018 (J)	<0.0025
8/2/2017	<0.0025			
1/19/2018	<0.0025	<0.0025	<0.0025	
6/19/2018	<0.0025	<0.0025	0.0024 (J)	
6/20/2018				<0.0025
1/17/2019	0.0011			
1/18/2019			0.0022	0.00087 (J)
1/21/2019		0.0004 (J)		
6/24/2019	0.0013			
6/25/2019		0.00088 (J)	0.0028	0.0021

# Sen's Slope Estimator

Constituent: Nickel Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-14	GWC-26	GWC-8
8/31/2011	<0.0025			
9/7/2011				<0.0025
9/13/2011		<0.0025		
9/17/2011			<0.0025	
10/27/2011	<0.0025	<0.0025		
10/29/2011			<0.0025	
10/30/2011				<0.0025
12/3/2011		<0.0025		
12/5/2011				<0.0025
12/14/2011	<0.0025		<0.0025	
1/19/2012				<0.0025
1/24/2012		<0.0025		
2/1/2012	<0.0025			
2/7/2012			<0.0025	
7/11/2012		<0.0025		
7/17/2012			<0.0025	
7/18/2012				<0.0025
7/23/2012	<0.0025			
1/7/2013				0.0025
1/8/2013		<0.0025		
1/23/2013	<0.0025			
1/24/2013			<0.0025	
7/9/2013				0.0027
7/10/2013		<0.0025		
7/17/2013	<0.0025			
7/24/2013			<0.0025	
1/14/2014				0.0039
1/15/2014	<0.0025			
1/21/2014		0.0041		
1/23/2014			<0.0025	
6/24/2014				0.0014 (J)
6/25/2014	<0.0025			
7/1/2014		0.0017 (J)		
7/8/2014			<0.0025	
1/14/2015		0.0064		
1/20/2015				0.0026
1/21/2015			<0.0025	
7/21/2015	<0.0025			
7/22/2015		0.0089		
7/27/2015				<0.0025
7/31/2015			<0.0025	
1/20/2016	0.002 (J)			
1/25/2016			<0.0025	
1/26/2016				0.002 (J)
1/27/2016		0.014		
4/20/2016		0.013		
1/19/2017			<0.0025	
1/26/2017				0.0034
2/1/2017		0.013		
8/2/2017	<0.0025			
8/3/2017			<0.0025	
8/7/2017		0.018		

# Sen's Slope Estimator

Constituent: Nickel Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-14	GWC-26	GWC-8
1/22/2018	<0.0025		<0.0025	
1/24/2018				0.0023 (J)
1/25/2018		0.013		
6/19/2018	0.0022 (J)			
6/20/2018		0.015		
6/21/2018				0.0031
6/27/2018			<0.0025	
1/22/2019		0.014		0.0025
1/24/2019			0.00087 (J)	
6/24/2019	0.0022			
6/25/2019		0.016	0.0031	0.0053

# Sen's Slope Estimator

Constituent: pH Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
1/19/2016				5.92
1/20/2016		5.47		
1/21/2016	5.03			
1/22/2016			6.27	
3/22/2016			6.72	5.92
3/23/2016	5.56	5.85		
5/19/2016				5.95
5/20/2016	5.62			
5/23/2016			6.29	
5/24/2016		5.86		
7/21/2016	5.500376			6.049508
7/25/2016			6.178217	
7/26/2016		5.808275		
9/15/2016	5.31			6.444541
9/16/2016			6.545359	
11/9/2016			6	
11/10/2016		5.63		
11/11/2016	5.4			
1/17/2017			6.09	
1/19/2017	5.73	5.63		
3/15/2017				5.86
3/16/2017	5.25		5.98	
3/17/2017		5.68		
4/27/2017			5.96	5.85
4/28/2017	5.35	5.77		
8/1/2017			6.01 (D)	5.86 (D)
8/2/2017		5.67 (D)		
8/3/2017	5.32 (D)			
1/19/2018	5.39 (D)	5.68 (D)	6.15 (D)	5.83 (D)
6/19/2018	5.27	5.84	5.96	5.77
9/25/2018	5.27	5.52	5.94	5.92
1/17/2019	5.43	5.81		
1/18/2019				5.86
1/21/2019			5.92	
6/24/2019	5.3	5.75		
6/25/2019			6.03	5.96

# Sen's Slope Estimator

Constituent: pH, Sulfate Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-18	GWA-1 (bg)
3/23/2016				<1
3/30/2016			6.03	
5/19/2016		6.45		
5/20/2016				<1
5/25/2016	6.48			
5/26/2016			6.03	
7/21/2016		6.449699		<1
7/25/2016			6.066342	
7/27/2016	6.43219			
9/14/2016		6.396439		
9/15/2016				<1
9/19/2016			6.040669	
11/10/2016		6.19		
11/11/2016				<1
1/17/2017		6.18		
1/19/2017				<1
2/1/2017			5.98	
3/16/2017		6.1		<1
3/24/2017			5.85	
4/28/2017		6.51		<1
5/3/2017			5.92	
8/1/2017	6.35 (D)			
8/2/2017		6.23 (D)		
8/7/2017			5.98 (D)	
10/4/2017				<1
1/19/2018				<1
1/22/2018		6.3 (D)		
1/25/2018			6.03 (D)	
6/19/2018		6.2		<1
6/20/2018	6.28			
6/21/2018			5.87	
9/25/2018		6.21		<1
9/28/2018			5.77	
1/17/2019	6.06	6.29		0.5 (J)
1/28/2019			6.03	
6/24/2019	5.68	6.12		<1
6/25/2019	5.58			
6/27/2019			5.78	



# Sen's Slope Estimator

Constituent: Sulfate Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
3/22/2016		1.1423	8.4662	
3/23/2016	1.001			
3/31/2016				202.982
5/19/2016			10	
5/23/2016		1.44		
5/24/2016	0.576 (J)			
5/25/2016				95.7
7/21/2016			13	
7/25/2016		1.1		
7/26/2016	0.91 (J)			
7/27/2016				110
9/15/2016		0.99 (J)		
9/16/2016	0.87 (J)			
11/9/2016		1.1		
11/10/2016	0.79 (J)			
1/17/2017		0.85 (J)	7.6	
1/19/2017	0.87 (J)			
3/16/2017		1.2		
3/17/2017	1.8			
4/27/2017		<1	8	
4/28/2017	1.7			
7/18/2017			6	
8/1/2017			7.7	
10/3/2017	1.9	1.4	7	150
1/19/2018	1.8	1.1	5.7	
6/19/2018	1	0.94 (J)	7	
6/20/2018				100
9/25/2018	0.78 (J)	1.3	9.1	
1/17/2019	2.5			
1/18/2019			6.4	34
1/21/2019		1.6		
6/24/2019	0.91 (J)			
6/25/2019		2.2	26	<1

# Sen's Slope Estimator

Constituent: Sulfate Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-12	GWC-17	GWC-30
3/23/2016	9.0208			1.3729
3/29/2016		19.1889		
3/30/2016			0.8313 (J)	
5/19/2016	10			
5/20/2016				1.31
5/25/2016		19.8	0.195 (J)	
7/21/2016	10			1.3
7/22/2016		20		
7/27/2016			0.7 (J)	
9/14/2016	9.7			
9/15/2016		20		
9/19/2016			<1	
9/20/2016				1.3
11/10/2016	8.1			
11/14/2016				1.1
11/16/2016		19		
11/17/2016			0.75 (J)	
1/17/2017	15			
1/24/2017				1.3
1/31/2017		23		
2/1/2017			<1	
3/16/2017	9.1			
3/17/2017				1.3
3/23/2017		23		
3/24/2017			<1	
4/27/2017	9.6			
5/1/2017				1.2
5/3/2017		22	<1	
10/3/2017	9.8			
10/4/2017		22	<1	1.2
1/22/2018	10			
1/24/2018		22		1
1/25/2018			<1	
6/19/2018	10			
6/21/2018				1
6/26/2018		23	<1	
9/25/2018	9.7			
9/28/2018		24		
10/2/2018			<1	
10/3/2018				1.2
1/17/2019	9.4			
1/24/2019			0.88 (J)	
1/25/2019		25		
1/30/2019				1.2
6/24/2019	10			
6/25/2019			1.1	
6/26/2019		25		
6/27/2019				1.7

# Sen's Slope Estimator

Constituent: Sulfate, Vanadium Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)
9/16/2011		<0.0025		<0.0025
9/17/2011			<0.0025	
10/27/2011		<0.0025	<0.0025	
10/28/2011				<0.0025
12/12/2011				<0.0025
12/13/2011		<0.0025		
12/14/2011			<0.0025	
1/25/2012				<0.0025
1/31/2012		<0.0025		
2/7/2012			<0.0025	
7/16/2012				<0.0025
7/18/2012		<0.0025		
7/23/2012			<0.0025	
1/23/2013			<0.0025	
1/24/2013		<0.0025		<0.0025
7/17/2013		<0.0025		
7/23/2013				<0.0025
7/24/2013			<0.0025	
1/21/2014		<0.0025		
1/22/2014			<0.0025	0.00072 (J)
6/25/2014		<0.0025		
7/1/2014			0.0012 (J)	<0.0025
1/14/2015		<0.0025		
1/21/2015				<0.0025
1/22/2015			0.0013 (J)	
7/21/2015		<0.0025		<0.0025
7/22/2015			<0.0025	
1/20/2016			<0.0025	
1/21/2016		<0.0025		
1/22/2016				<0.0025
3/28/2016	19.9405			
5/23/2016	21			
7/21/2016	17			
9/15/2016	16			
11/15/2016	15			
1/17/2017				<0.0025
1/19/2017		<0.0025	<0.0025	
1/26/2017	13			
3/22/2017	13			
5/2/2017	25			
8/1/2017				<0.0025
8/2/2017			<0.0025	
8/3/2017		<0.0025		
10/3/2017	21			
1/19/2018		<0.0025	<0.0025	<0.0025
1/23/2018	26			
6/19/2018		<0.0025	0.0024 (J)	<0.0025
6/25/2018	30			
10/3/2018	29			
1/17/2019		0.0012	0.0016	
1/21/2019				0.0012
1/30/2019	31			

# Sen's Slope Estimator

Constituent: Sulfate, Vanadium Analysis Run 8/9/2019 3:36 PM View: State Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-5	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)
6/24/2019		0.0028	0.0018	
6/25/2019				0.0025
6/26/2019	31			

# Sen's Slope Estimator

Constituent: Vanadium Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-17
8/30/2011				<0.0025
8/31/2011		<0.0025	<0.0025	
9/17/2011	<0.0025			
10/27/2011			<0.0025	<0.0025
10/28/2011	<0.0025			
12/3/2011				<0.0025
12/12/2011	<0.0025			
12/14/2011			<0.0025	
1/25/2012				<0.0025
1/31/2012	<0.0025			
2/1/2012			<0.0025	
7/11/2012				<0.0025
7/17/2012	<0.0025			
7/23/2012			<0.0025	
1/8/2013				<0.0025
1/23/2013			<0.0025	
1/24/2013	<0.0025			
7/16/2013				<0.0025
7/17/2013			<0.0025	
7/24/2013	<0.0025			
1/14/2014				0.0019 (J)
1/15/2014			0.0016 (J)	
1/22/2014	<0.0025			
6/25/2014		<0.0025	0.00084 (J)	0.001 (J)
7/8/2014	<0.0025 (D)			
1/14/2015			0.0014 (J)	0.0014 (J)
1/21/2015	<0.0025			
7/21/2015		<0.0025	<0.0025	
7/22/2015	<0.0025			
7/28/2015				0.0027 (J)
1/19/2016	<0.0025 (D)			
1/20/2016			<0.0025	
1/27/2016				0.0018 (J)
1/17/2017	<0.0025		<0.0025	
2/1/2017				0.0044
8/1/2017	<0.0025 (*)	<0.0025		
8/2/2017			<0.0025	
8/7/2017				<0.0025
1/19/2018	<0.0025			
1/22/2018			0.002 (J)	
1/25/2018				0.0042
6/19/2018	0.0014 (J)		0.0019 (J)	
6/20/2018		<0.0025		
6/26/2018				0.0023 (J)
1/17/2019			0.0016	
1/18/2019	0.0015	0.0019		
1/24/2019				0.0027
6/24/2019			0.002	
6/25/2019	0.0023	0.0028		0.005

# Sen's Slope Estimator

Constituent: Vanadium, Zinc Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-19	GWC-22	GWA-1 (bg)
8/30/2011	<0.0025	<0.001		
9/15/2011			0.005	
9/16/2011				0.0071
10/26/2011	<0.0025	<0.001		
10/27/2011				0.0062
10/29/2011			<0.01	
12/3/2011	<0.0025	<0.001		
12/13/2011			<0.01	0.0065
1/25/2012			<0.01	
1/31/2012				0.0047
2/8/2012	<0.0025	<0.001		
7/11/2012	<0.0025	<0.001		
7/18/2012			0.0074	0.0044
1/8/2013	<0.0025	<0.001		
1/22/2013			0.0071	
1/24/2013				0.0058
7/16/2013	<0.0025	<0.001	0.0075	
7/17/2013				0.0028
1/14/2014	0.0022 (J)			
1/21/2014		<0.001	0.0061	0.0037
6/24/2014	<0.0025	<0.001		
6/25/2014			0.007	0.0026
1/13/2015	0.00084 (J)	<0.001		
1/14/2015			0.0063	0.003
7/21/2015				0.0033
7/23/2015	<0.0025	0.0016 (J)	0.0066	
1/21/2016				0.0043
1/26/2016			0.0058	
1/27/2016	0.00096 (J)	<0.001		
1/19/2017				0.0077 (J)
2/2/2017		0.0015 (J)		
2/3/2017			0.0082	
8/3/2017				<0.02
8/7/2017	<0.0025	0.0016 (J)		
8/8/2017			0.0058	
1/19/2018				<0.02
1/25/2018	<0.0025	0.0021 (J)	0.0063	
6/19/2018				0.0068 (J)
6/20/2018			0.006	
6/21/2018	<0.0025	<0.001		
1/17/2019				0.0037 (J)
1/24/2019			0.0065	
1/28/2019		<0.001		
6/24/2019				0.0048 (J)
6/25/2019			0.0092	
6/26/2019		0.0023		
6/27/2019	0.0031			

# Sen's Slope Estimator

Constituent: Zinc Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
8/31/2011				0.0037
9/16/2011		0.003		
9/17/2011	0.0061		0.026	
10/27/2011	0.0059			
10/28/2011		0.0073	0.019	
12/12/2011		0.0053	0.02	
12/14/2011	0.0077			
1/25/2012		0.0046		
1/31/2012			0.036	
2/7/2012	0.0053			
7/16/2012		0.0034		
7/17/2012			0.015	
7/23/2012	0.0043			
1/23/2013	0.0054			
1/24/2013		0.0049	0.048	
7/23/2013		0.0026		
7/24/2013	0.004		0.048	
1/22/2014	0.0056	0.0052	0.044	
6/25/2014				0.015
7/1/2014	0.004	0.0042		
7/8/2014			0.04 (D)	
1/21/2015		0.0038	0.037	
1/22/2015	0.0051			
7/21/2015		0.0042		0.042
7/22/2015	0.0033		0.031	
1/19/2016			0.035 (D)	
1/20/2016	0.0029			
1/22/2016		0.0041		
1/17/2017		<0.02	0.024	
1/19/2017	<0.02			
8/1/2017		<0.02	0.028	<0.02
8/2/2017	<0.02			
1/19/2018	<0.02	<0.02	0.024	
6/19/2018	<0.02	<0.02	0.028	
6/20/2018				<0.02
1/17/2019	0.0024 (J)			
1/18/2019			0.022	0.0088
1/21/2019		0.0065		
6/24/2019	0.0046 (J)			
6/25/2019		0.011	0.041	0.014

# Sen's Slope Estimator

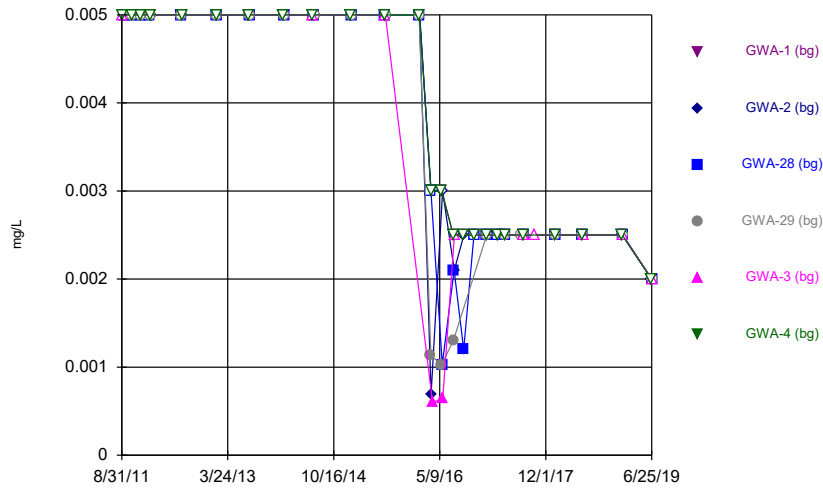
Constituent: Zinc Analysis Run 8/9/2019 3:36 PM View: State Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-14
8/31/2011	<0.005	
9/13/2011		0.0039
10/27/2011	<0.005	0.0046
12/3/2011		0.0028
12/14/2011	<0.005	
1/24/2012		0.0033
2/1/2012	<0.005	
7/11/2012		<0.0025
7/23/2012	0.0037	
1/8/2013		<0.0025
1/23/2013	<0.005	
7/10/2013		<0.0025
7/17/2013	<0.005	
1/15/2014	0.00085 (J)	
1/21/2014		0.0036
6/25/2014	0.0014 (J)	
7/1/2014		0.0018 (J)
1/14/2015	0.0082	0.0035
7/21/2015	0.0015 (J)	
7/22/2015		0.005
1/20/2016	0.0093	
1/27/2016		0.0094
2/1/2017		0.0084 (J)
8/2/2017	<0.005	
8/7/2017		0.012 (J)
1/22/2018	<0.005	
1/25/2018		0.0095 (J)
6/19/2018	<0.005	
6/20/2018		0.012 (J)
1/17/2019	<0.005	
1/22/2019		0.0094
6/24/2019	0.0036 (J)	
6/25/2019		0.014

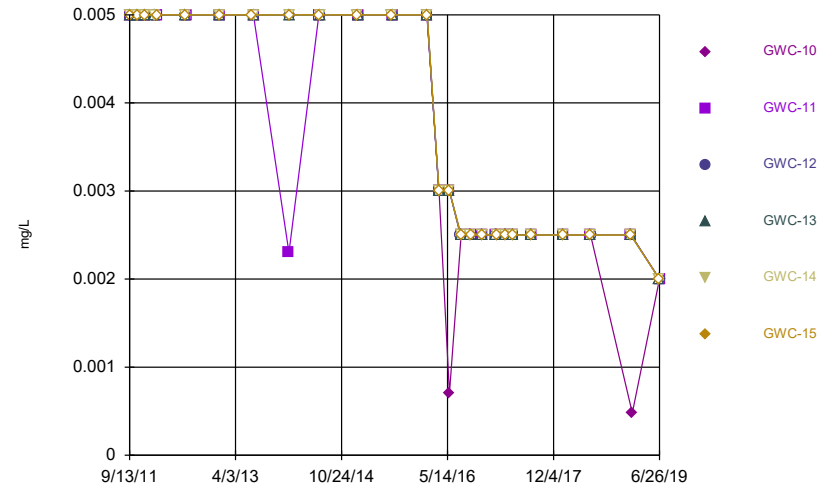


### Antimony



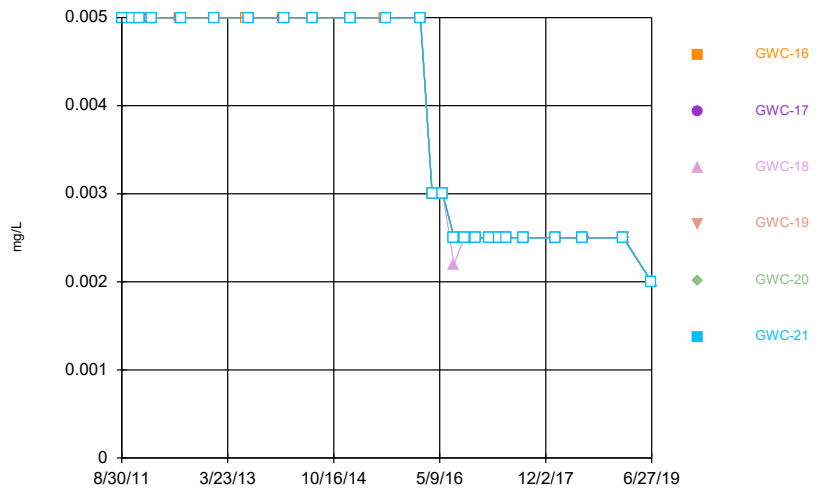
Time Series Analysis Run 8/8/2019 2:06 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Antimony



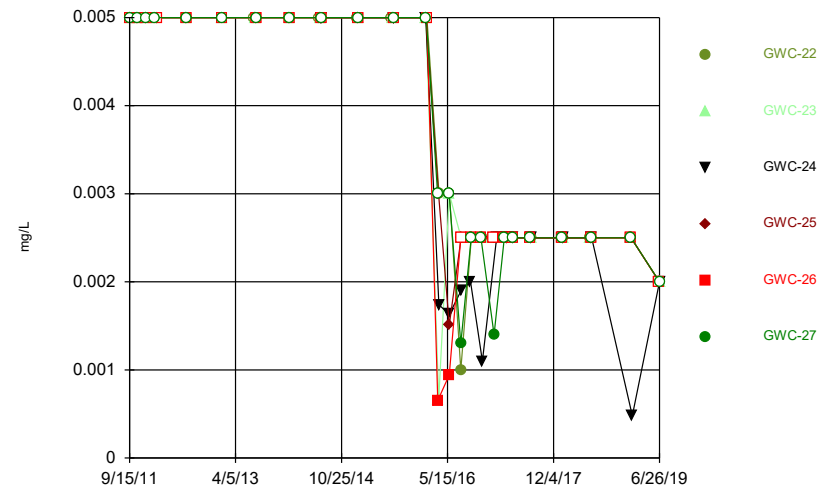
Time Series Analysis Run 8/8/2019 2:06 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Antimony



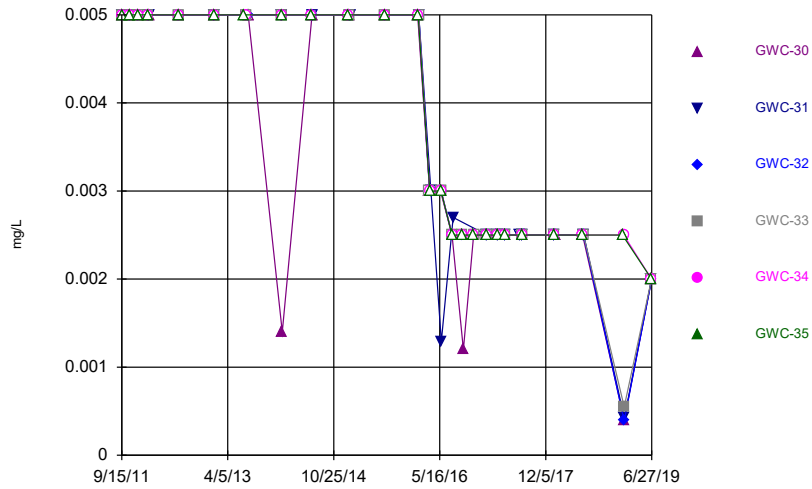
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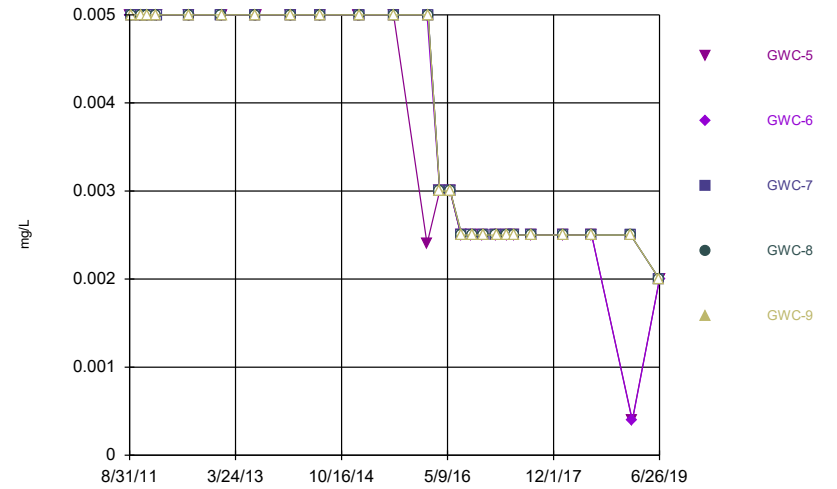
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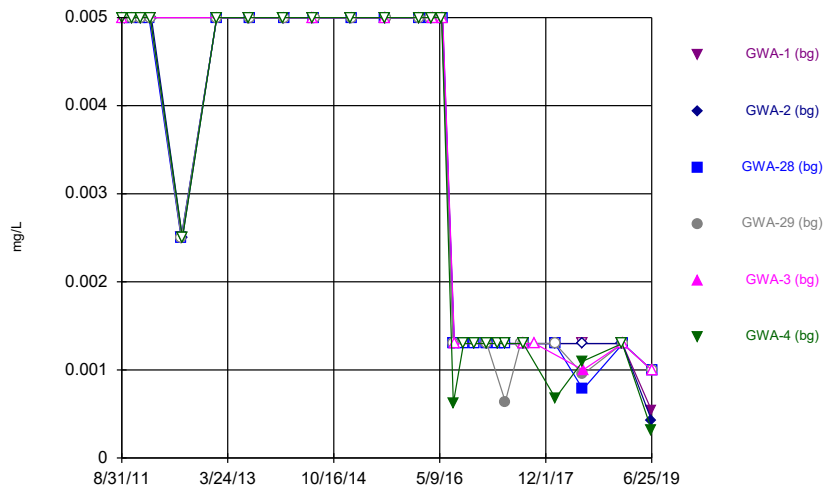
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### Antimony



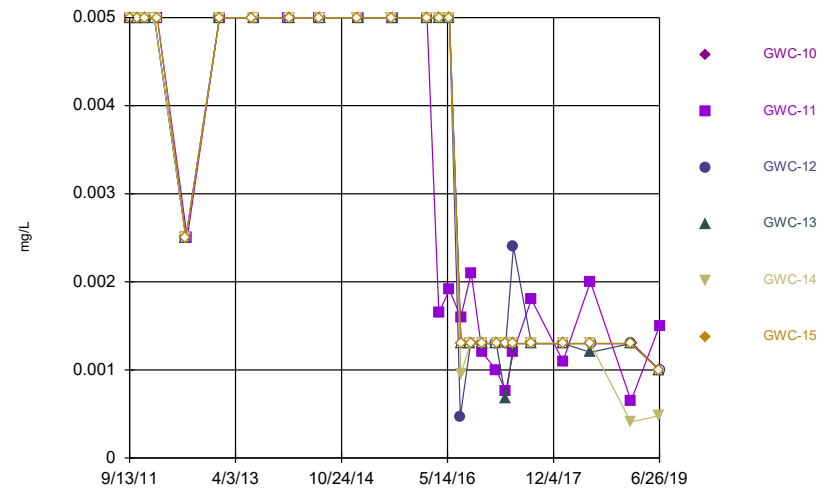
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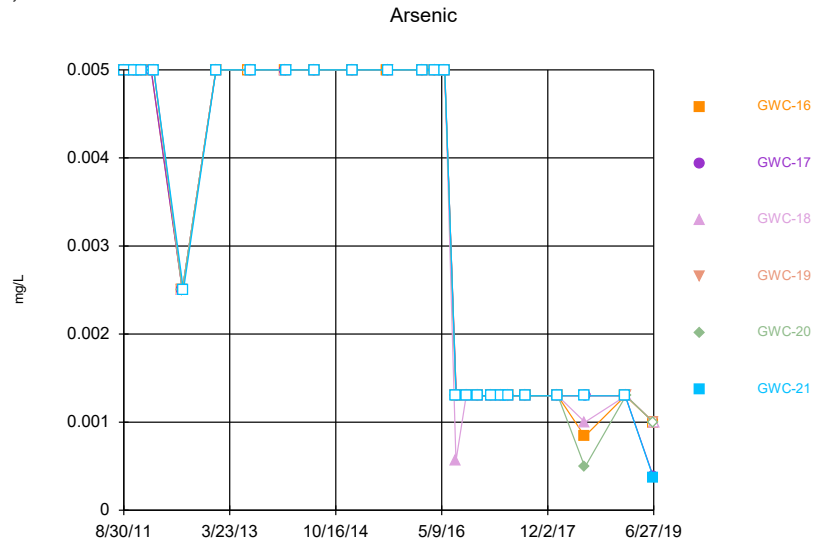


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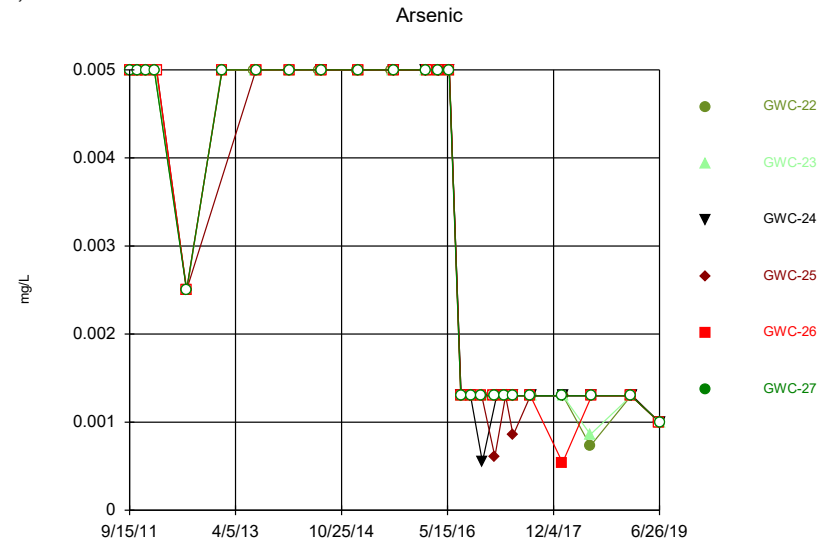
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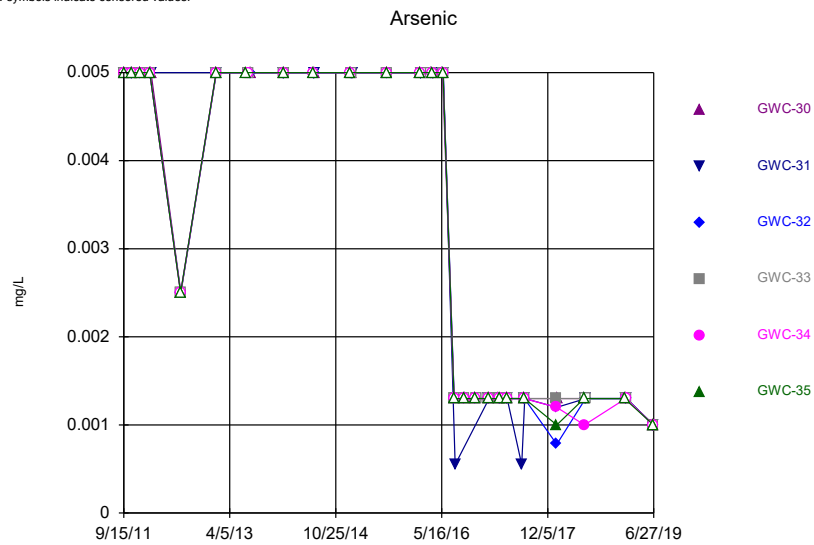
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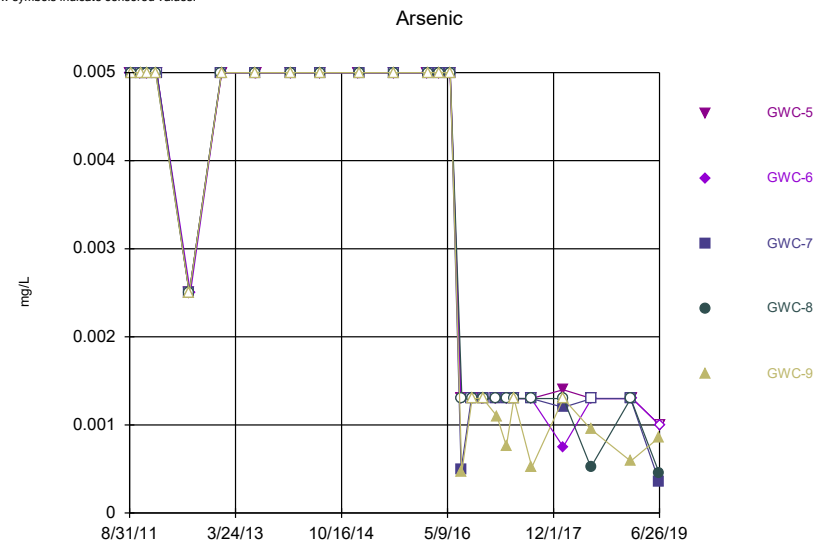
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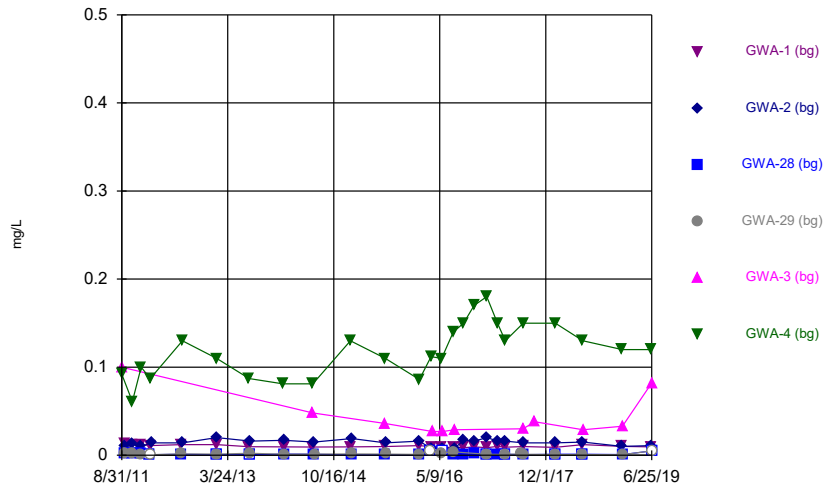


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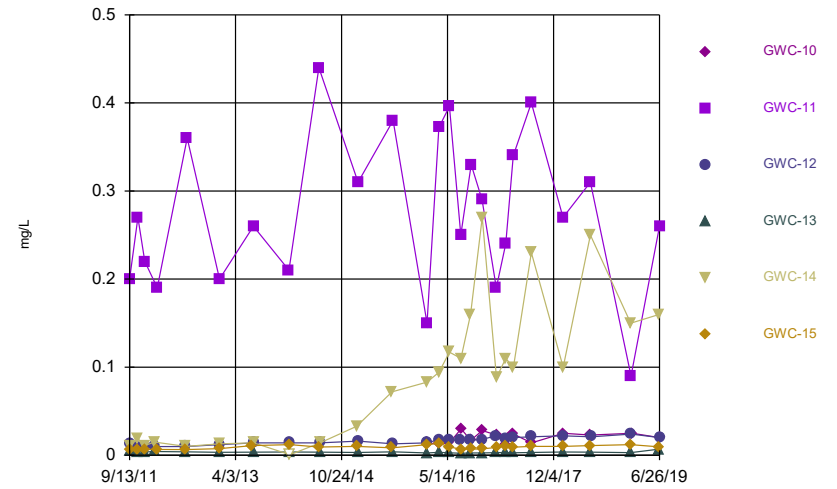
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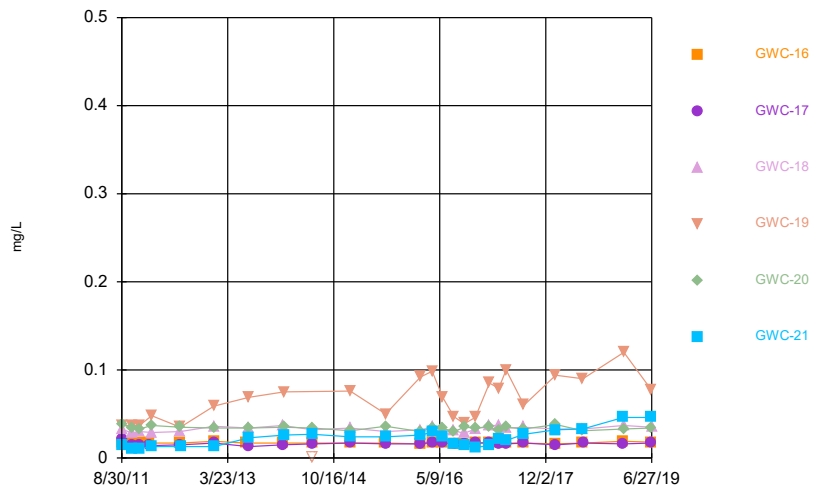
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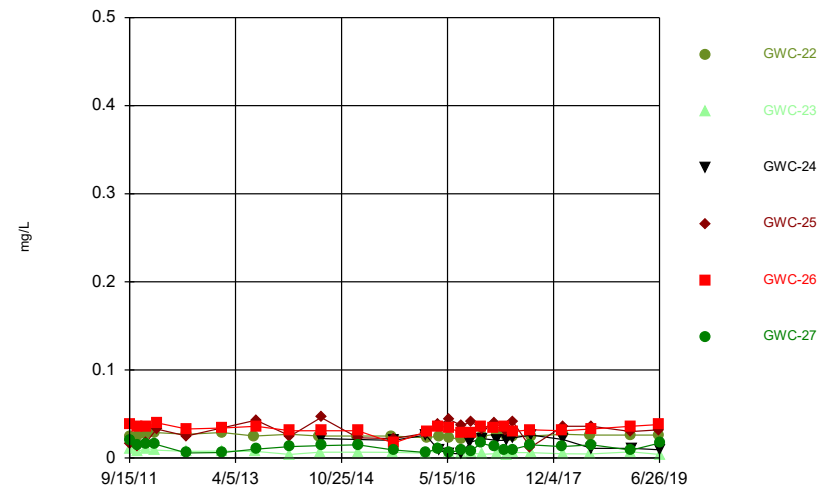
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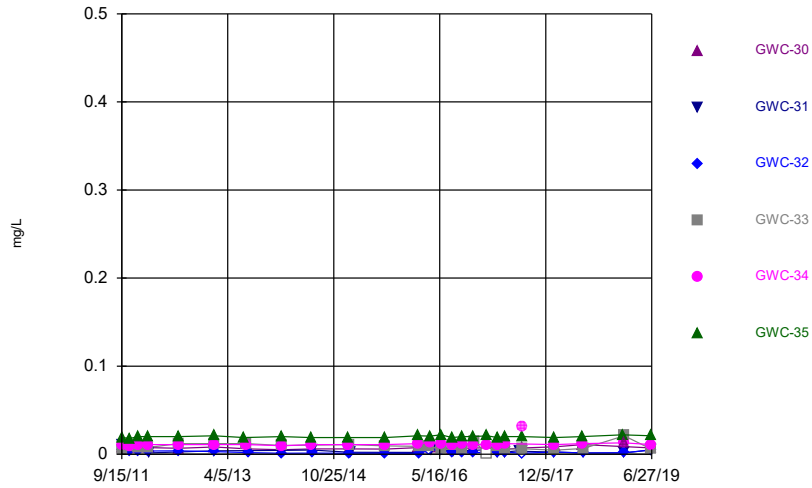
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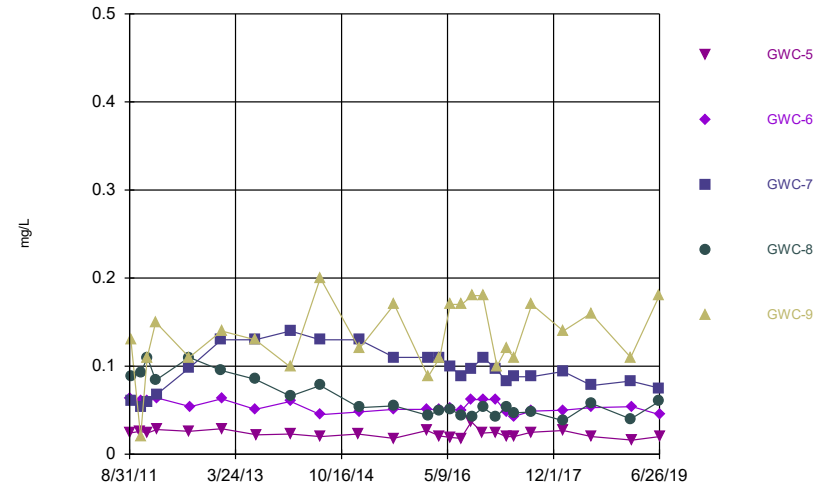
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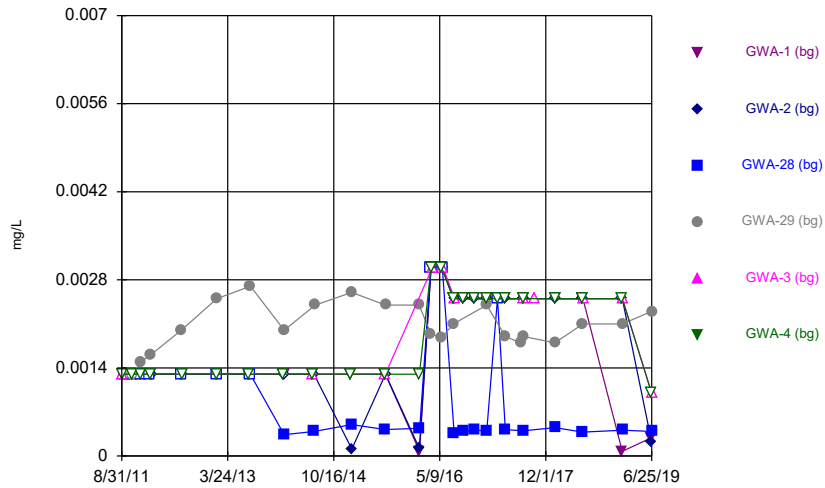
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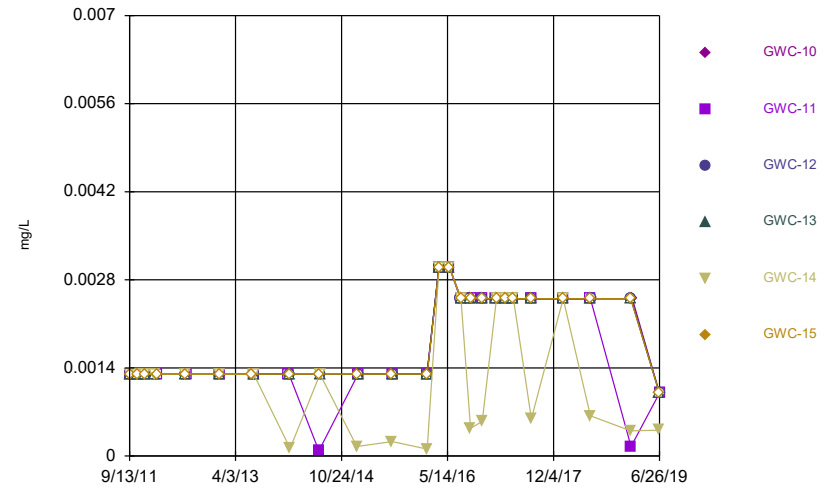
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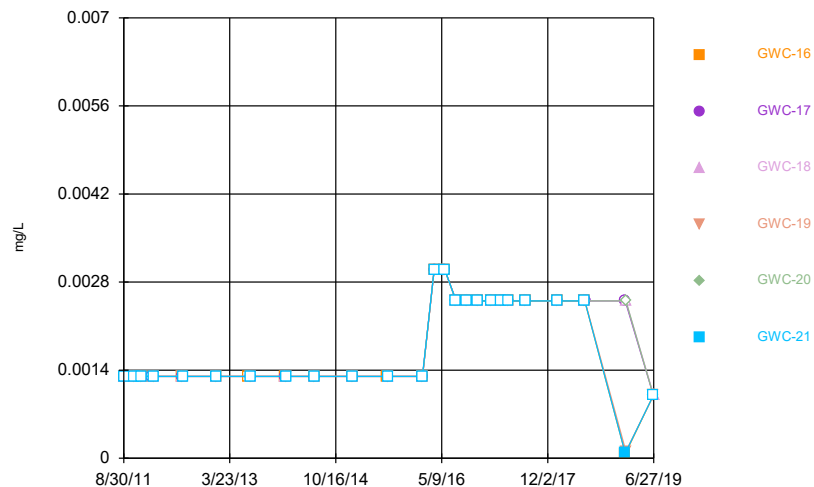
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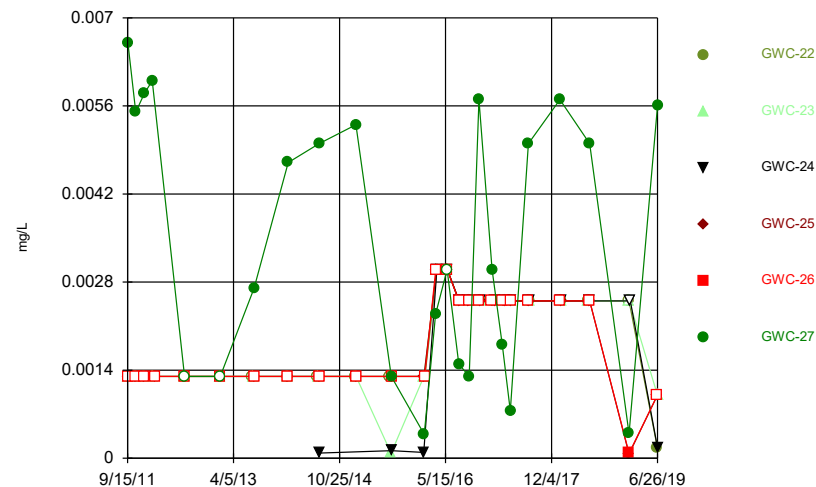
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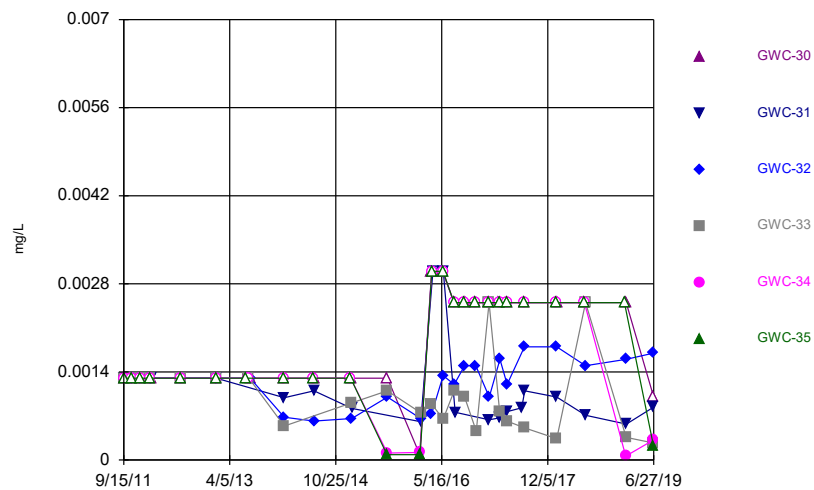
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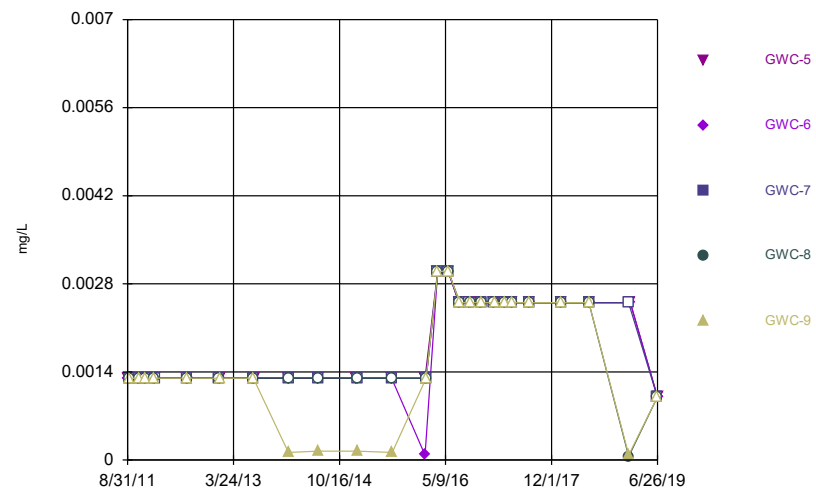
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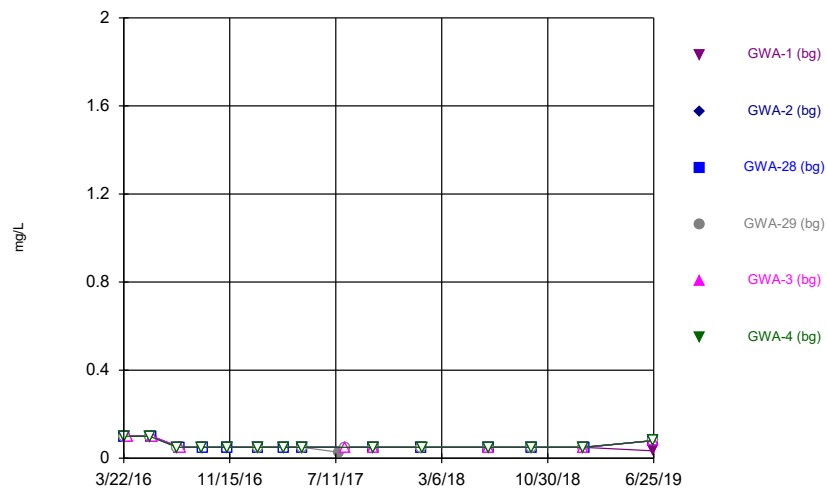
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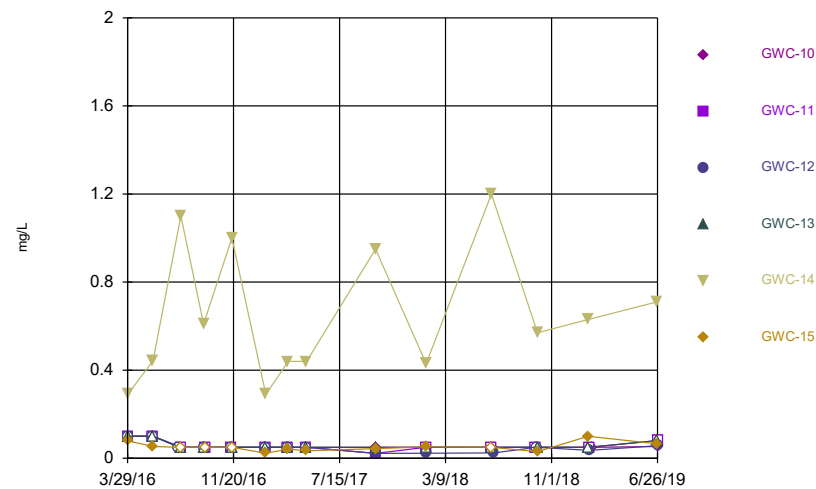
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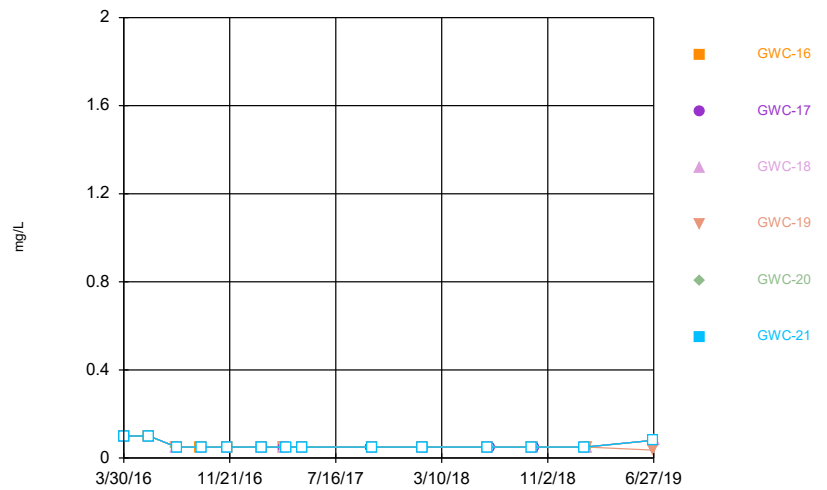
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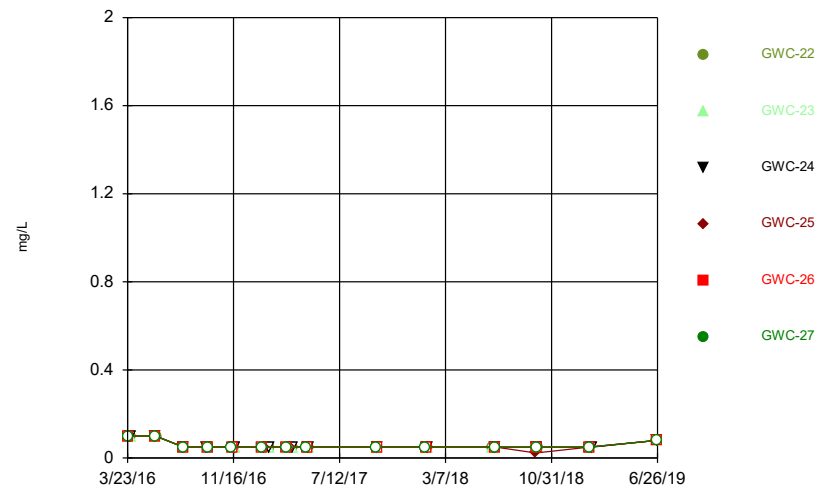
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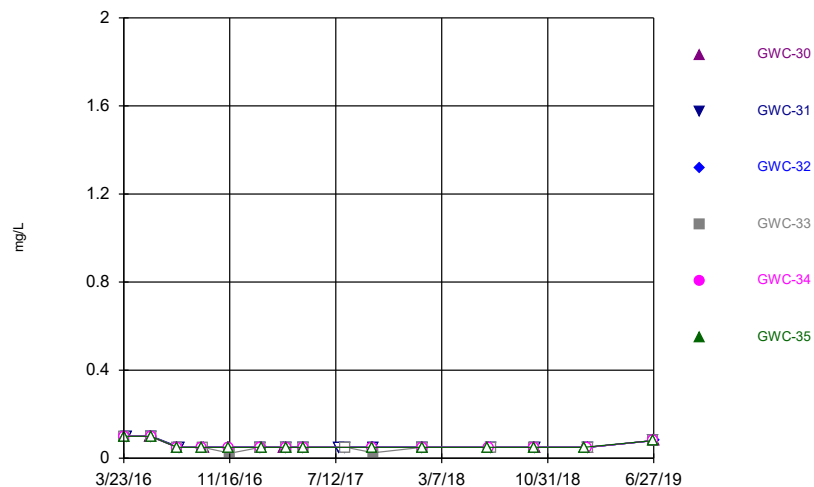
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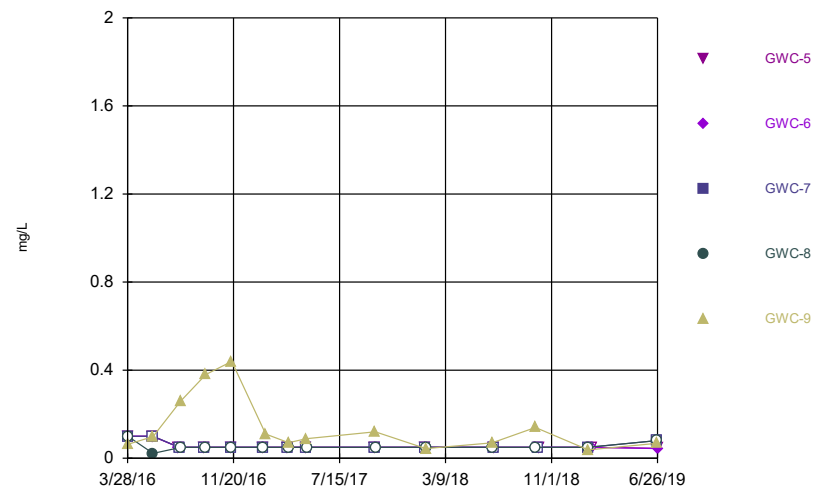
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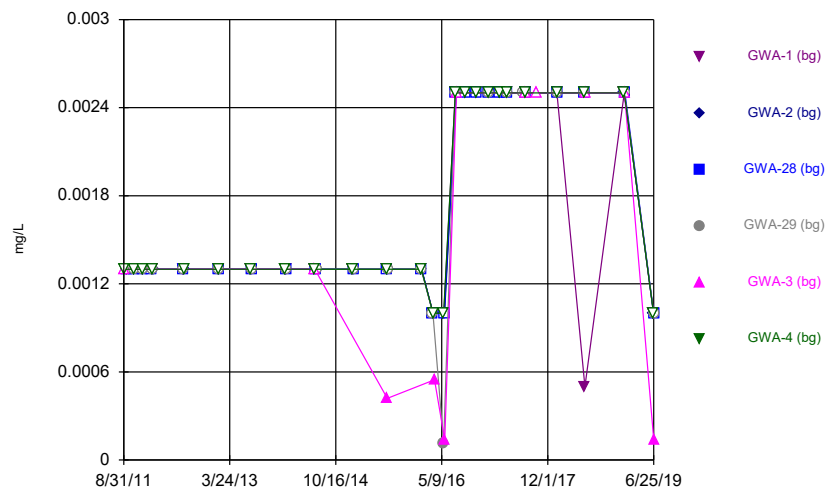
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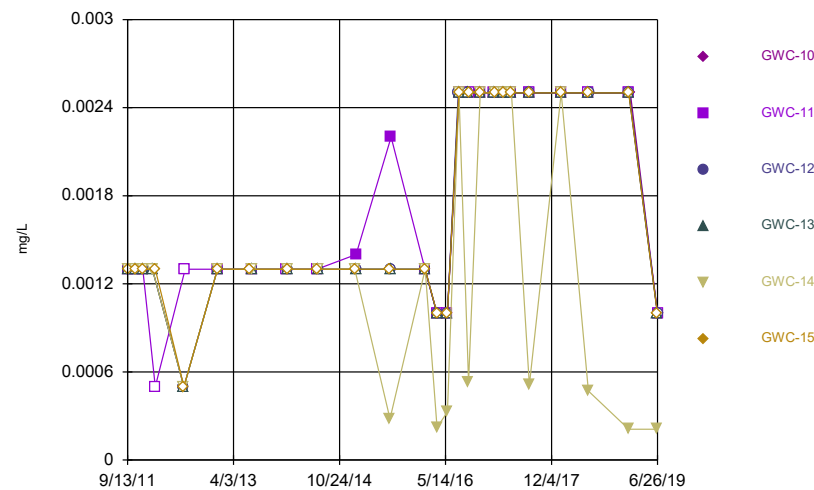
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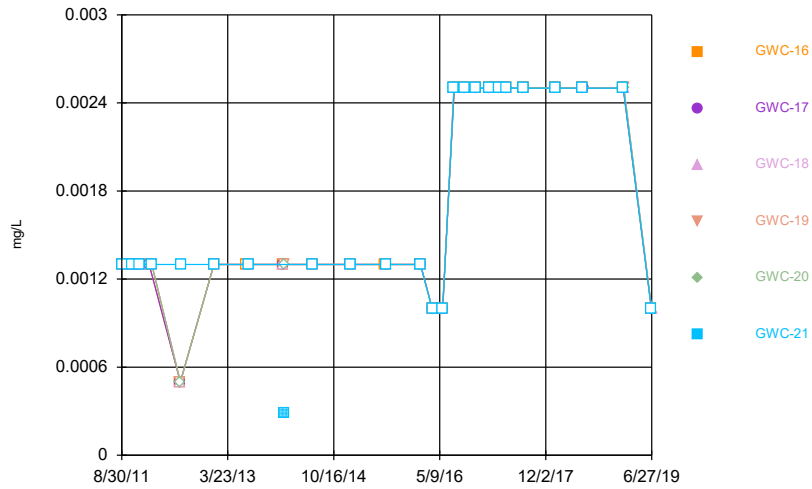
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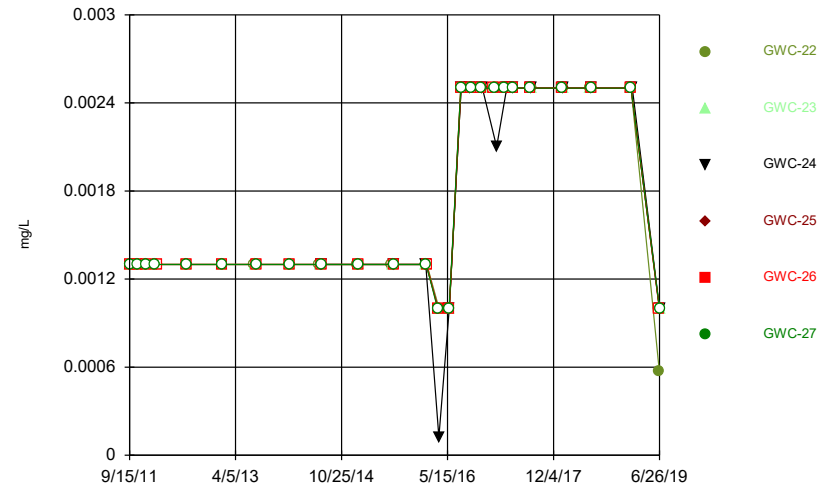


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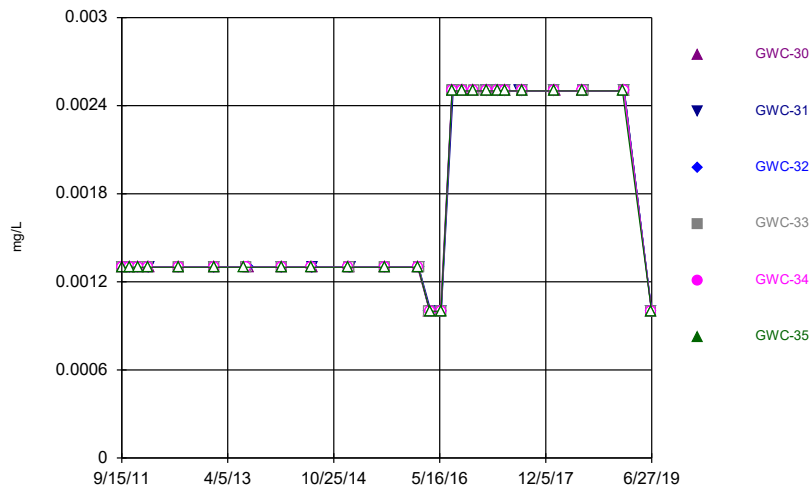
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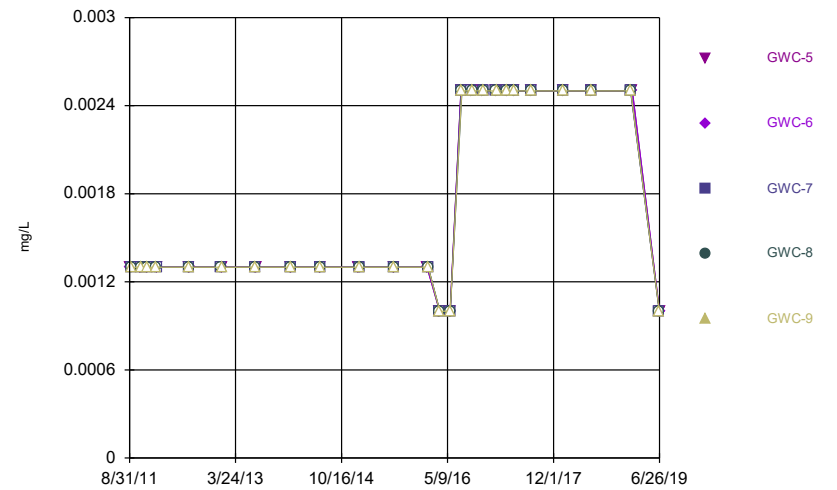
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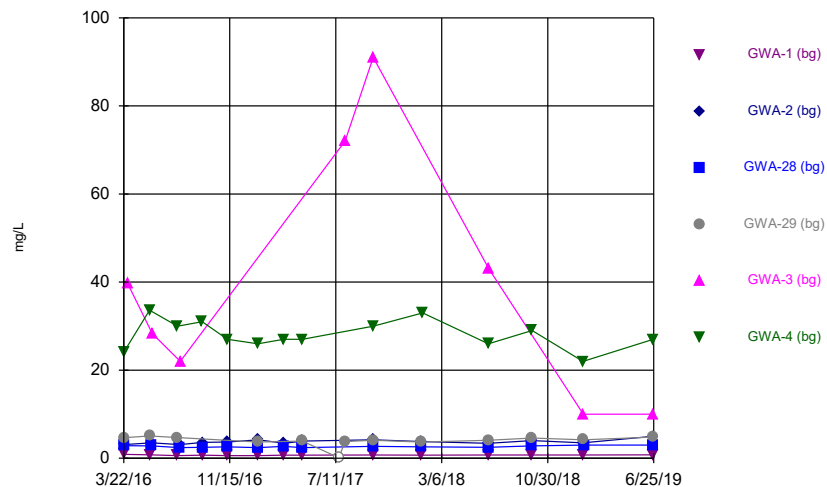
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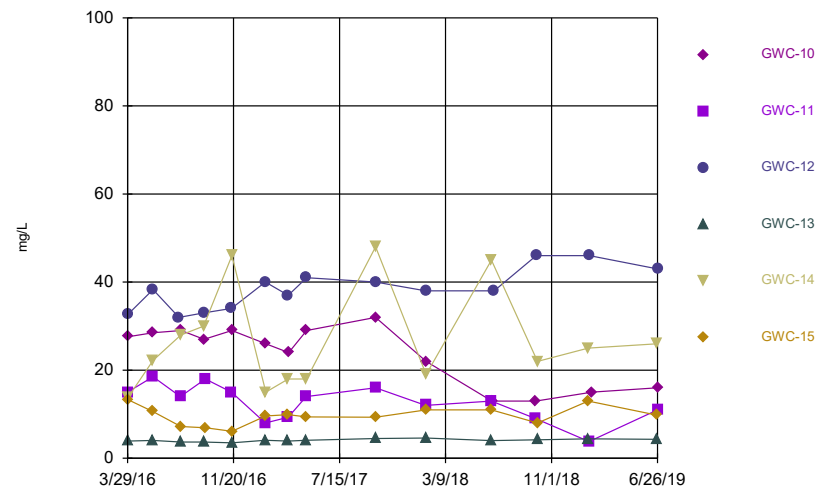
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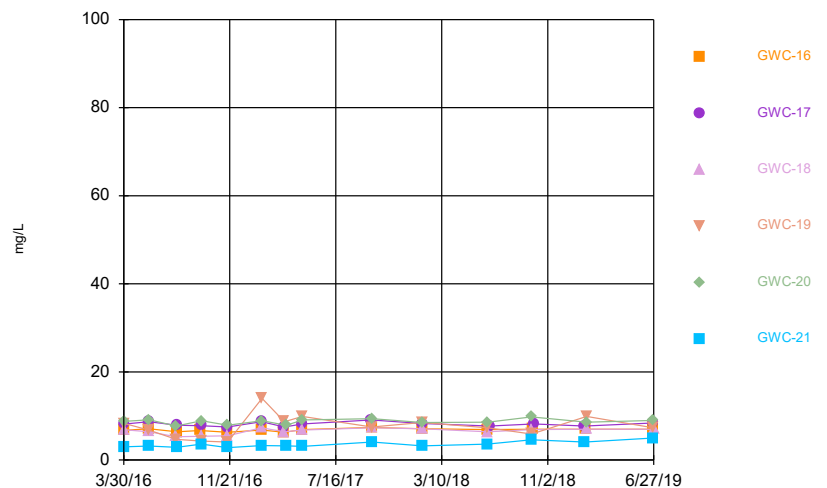
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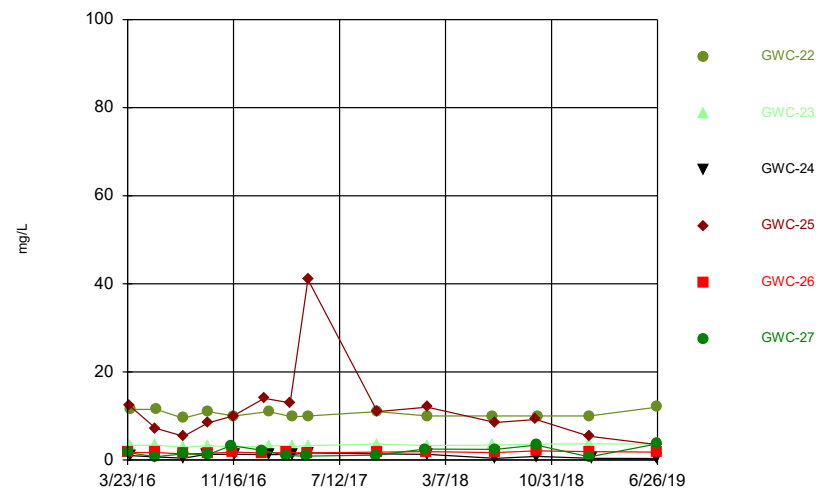
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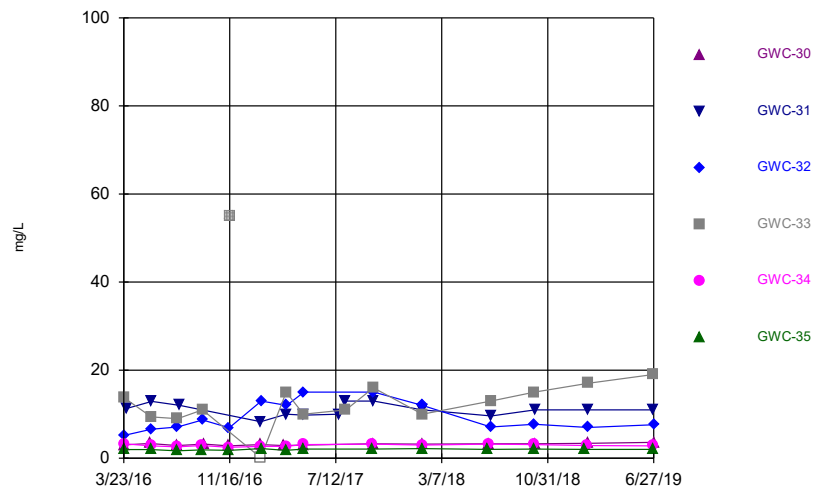
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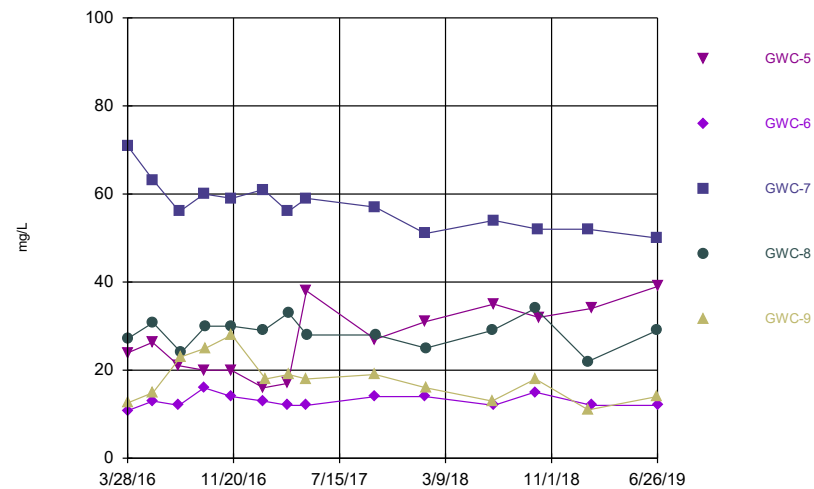
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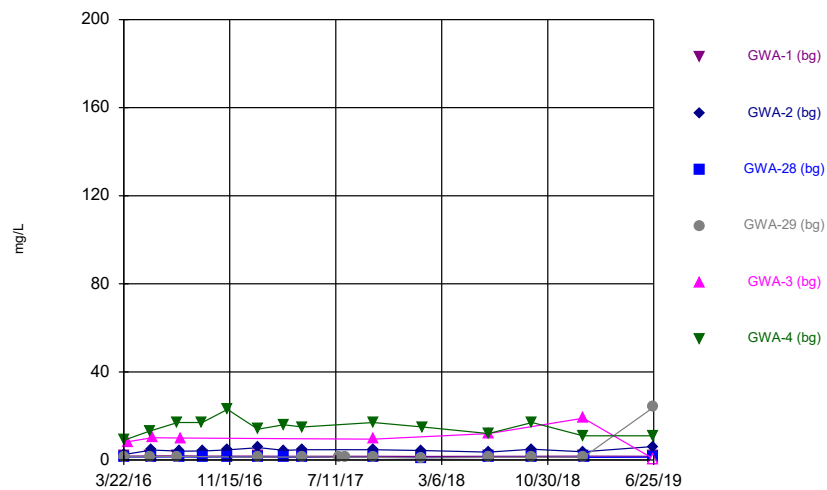
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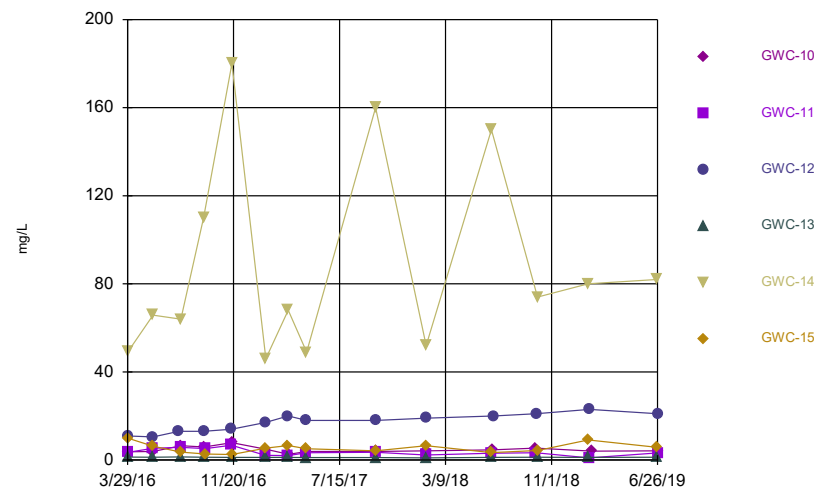
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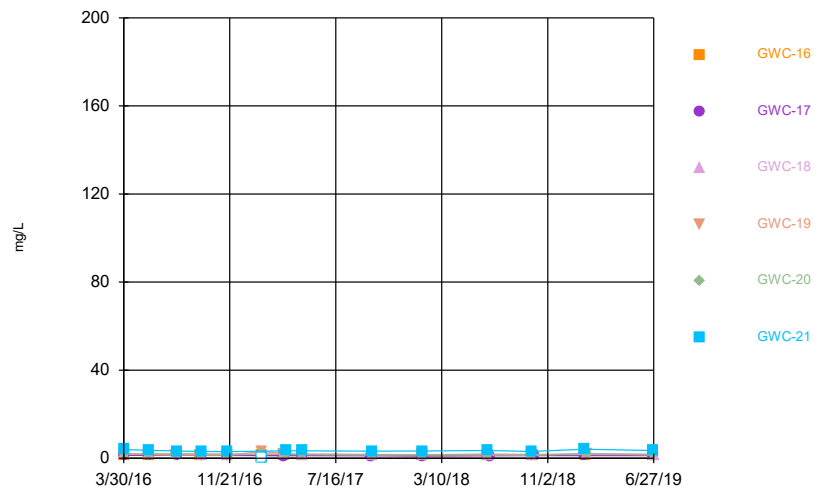
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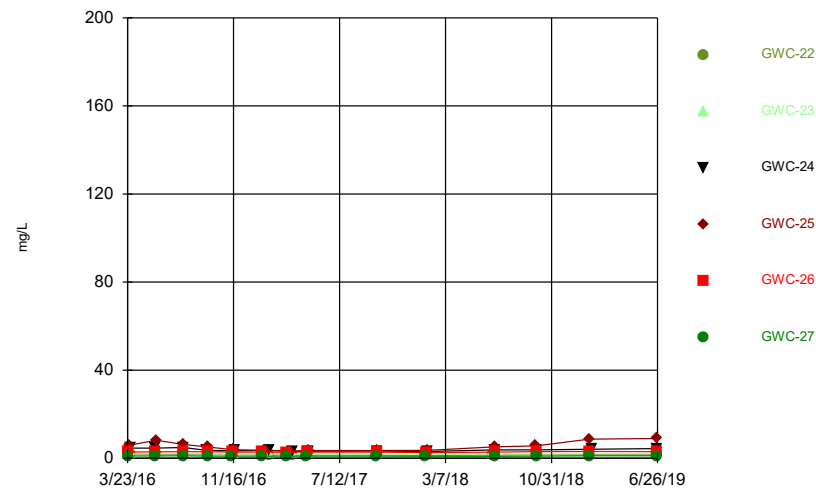
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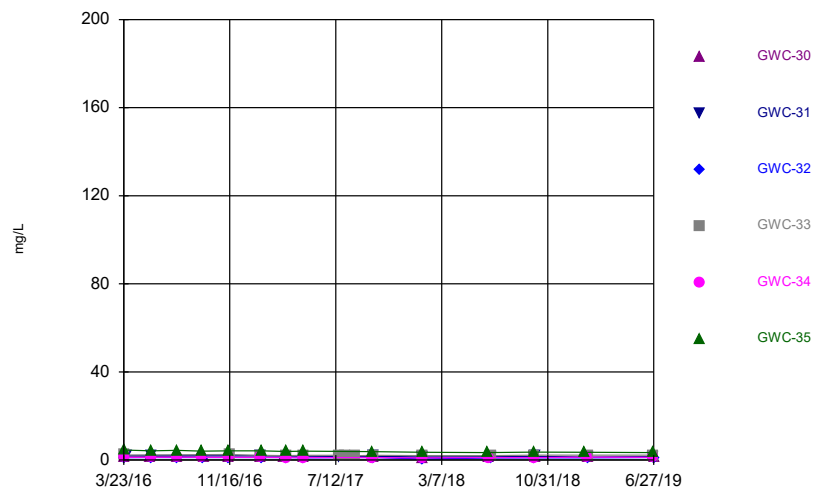
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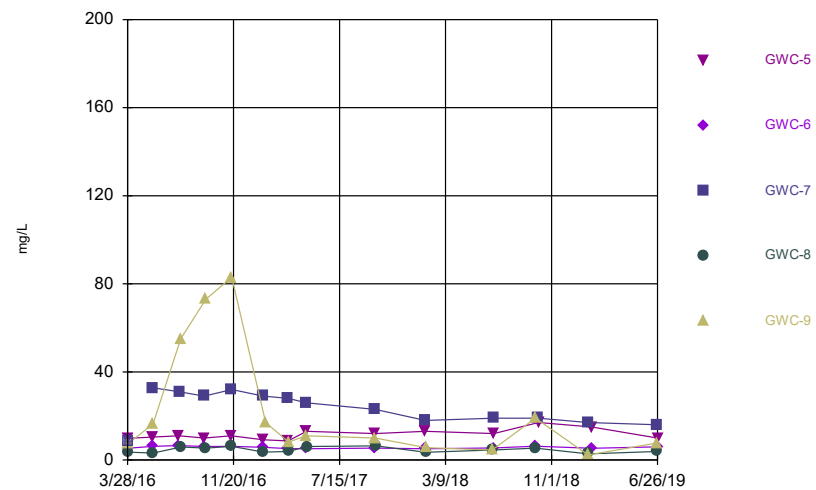
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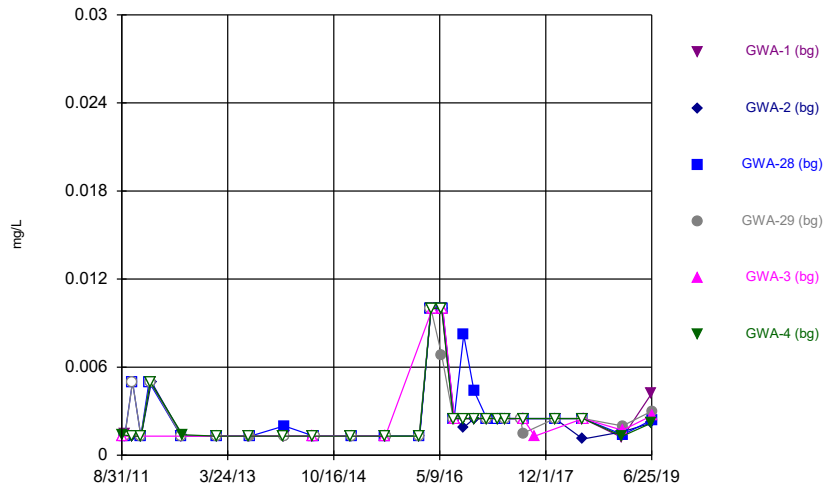
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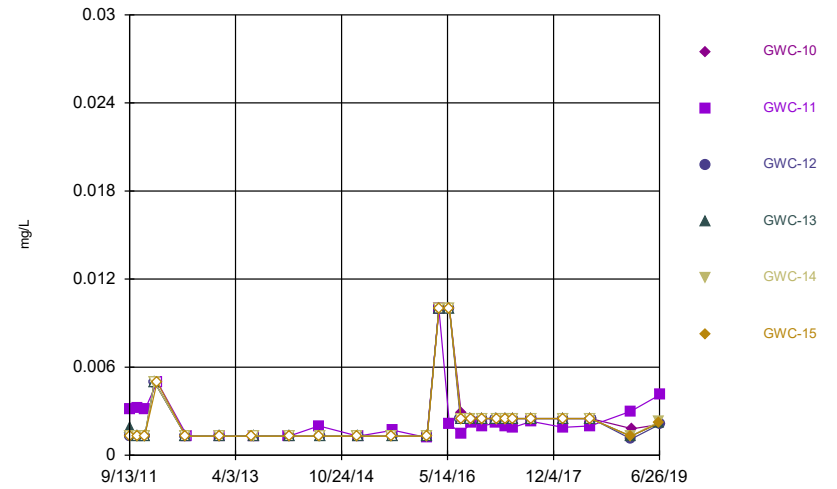
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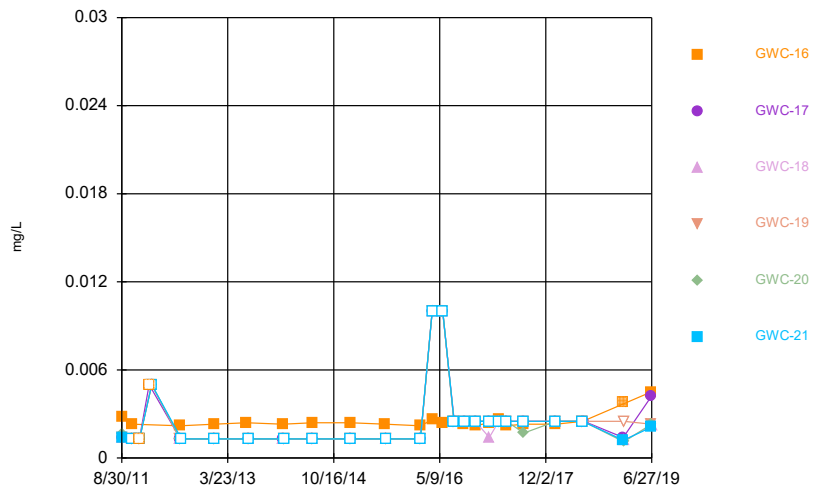
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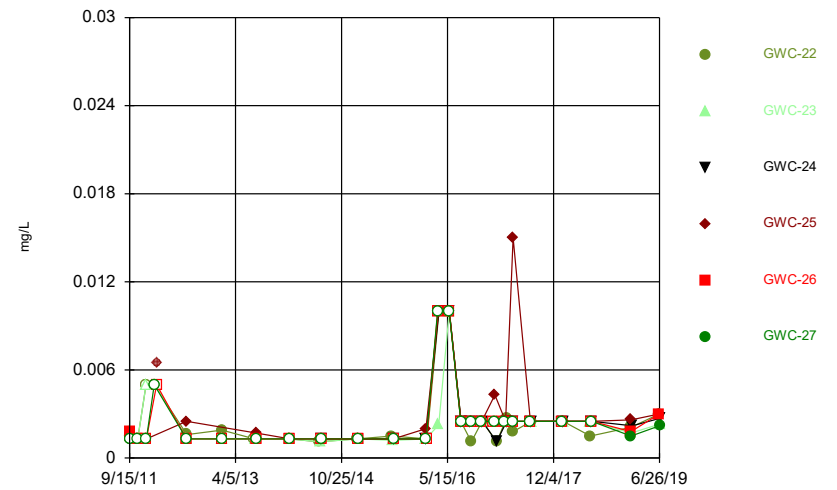
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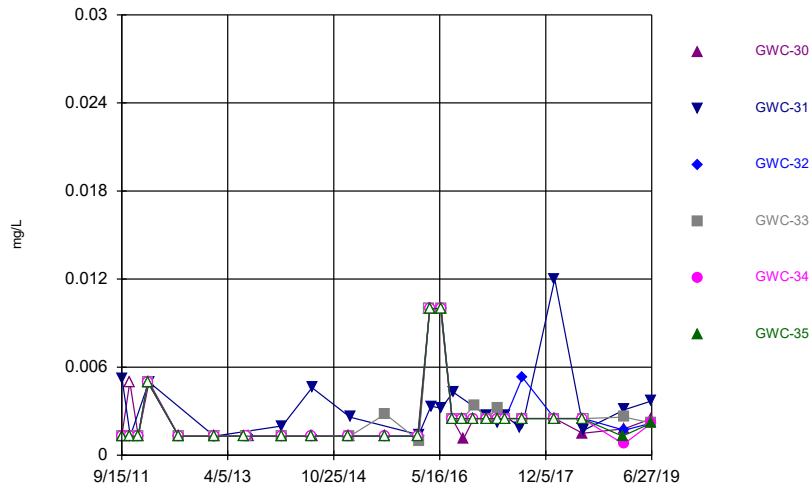
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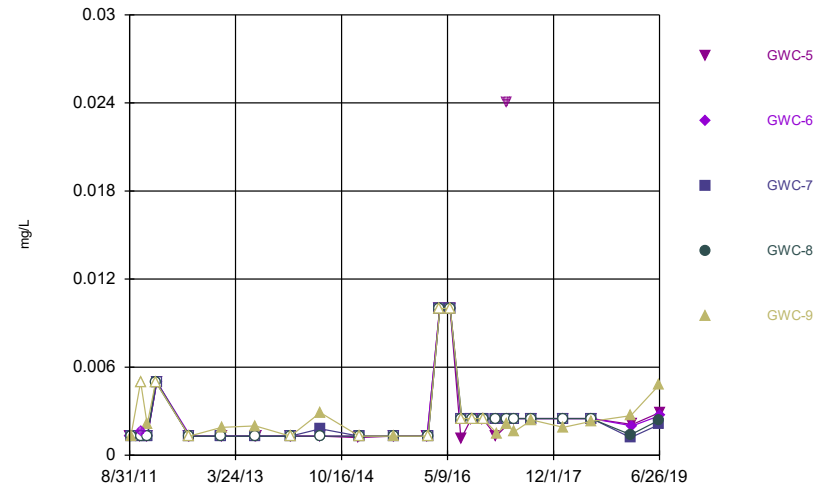
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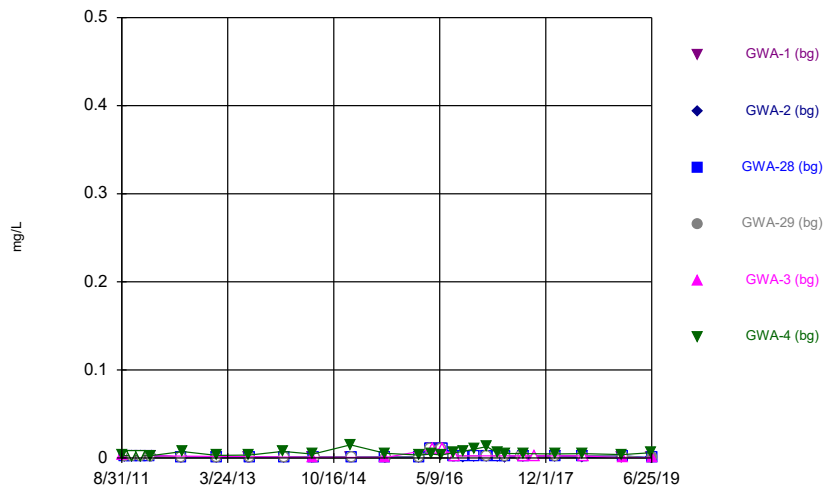
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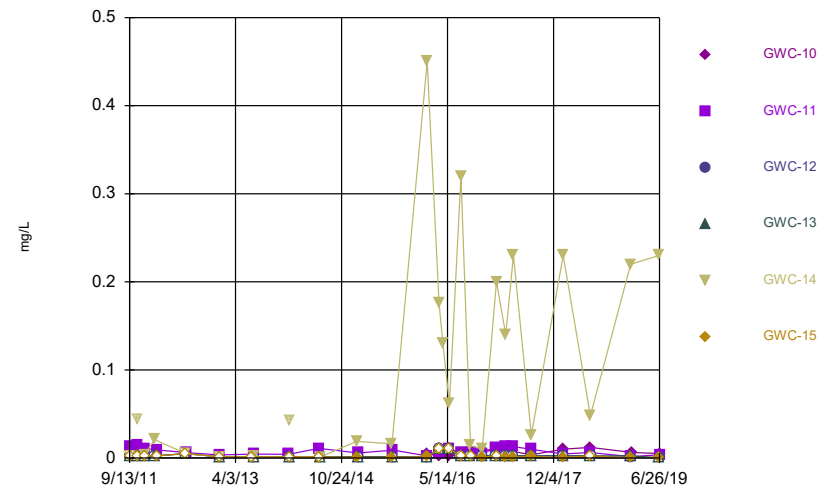
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### Cobalt



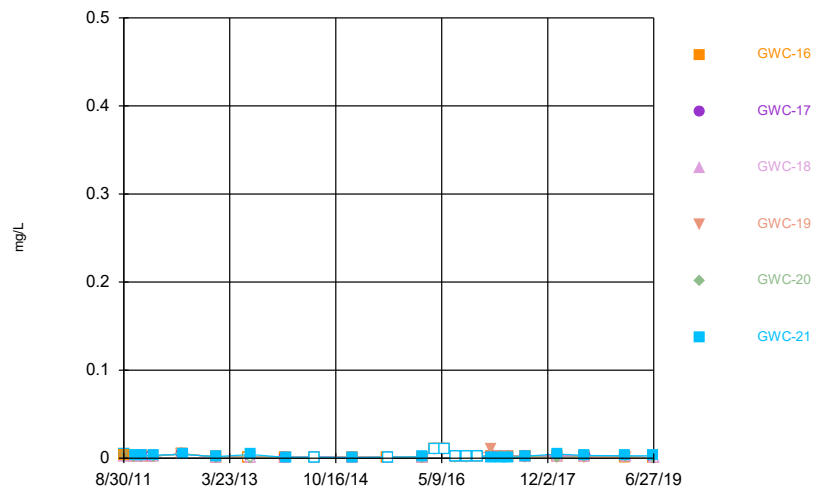
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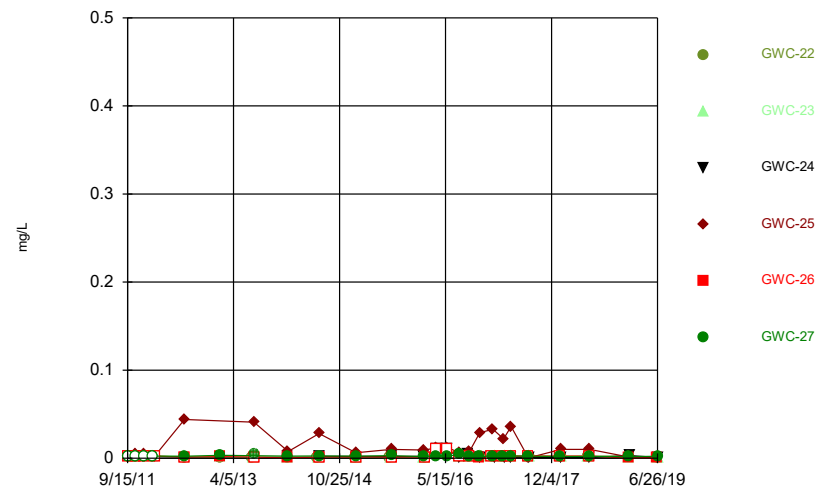
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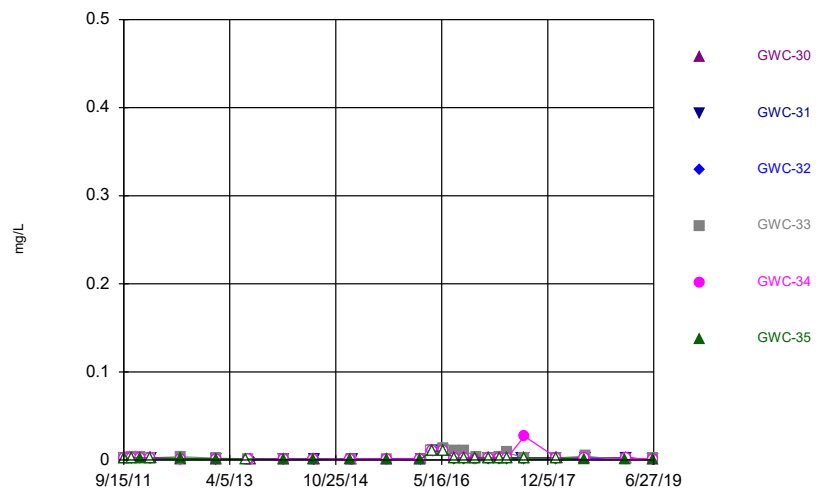
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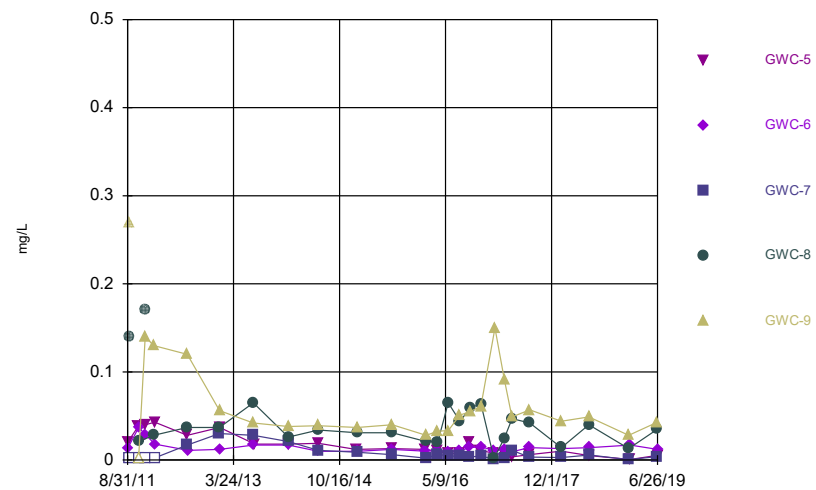
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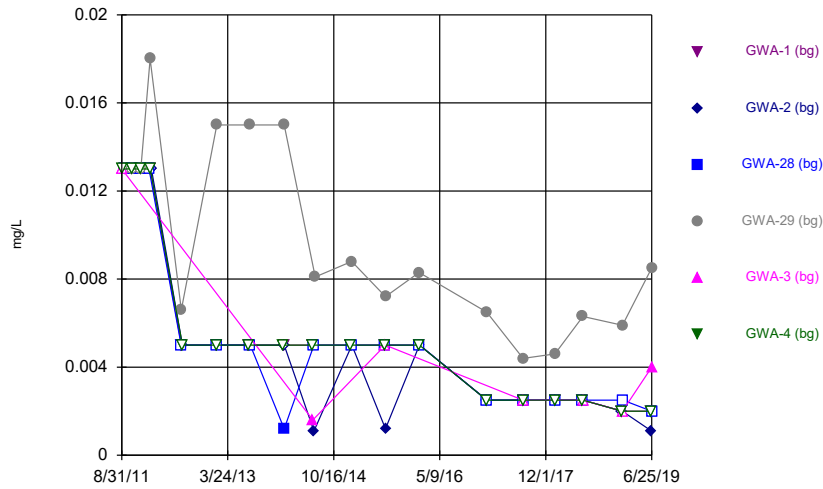
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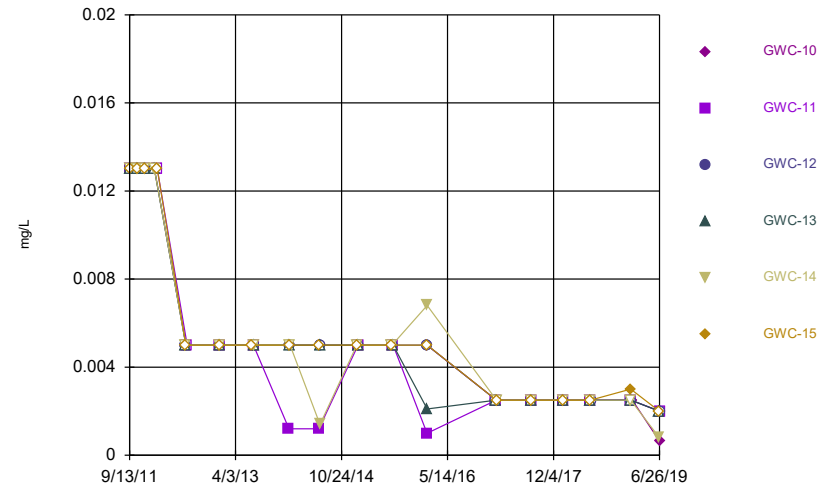
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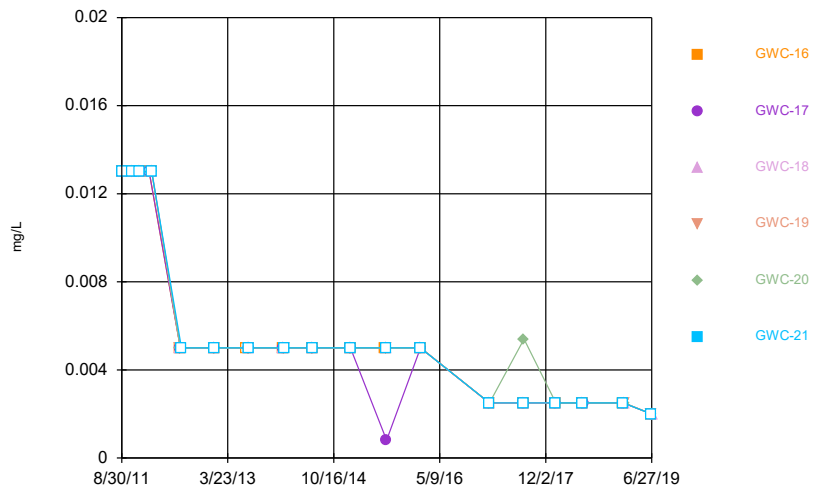
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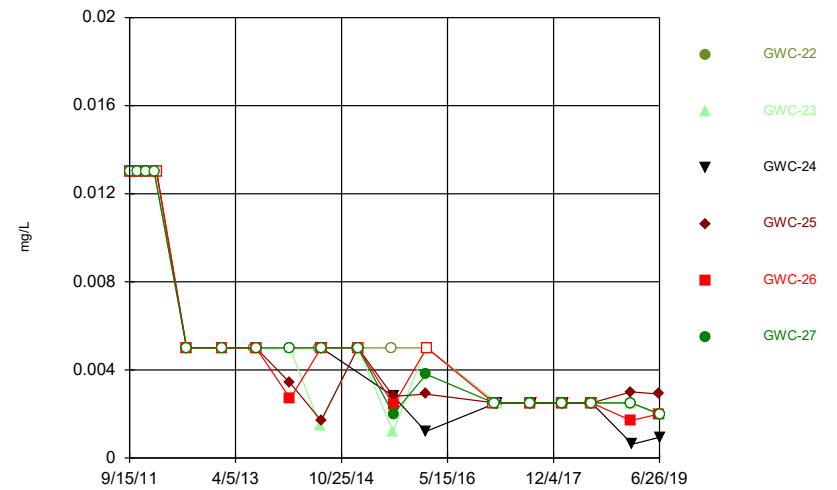
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### Copper



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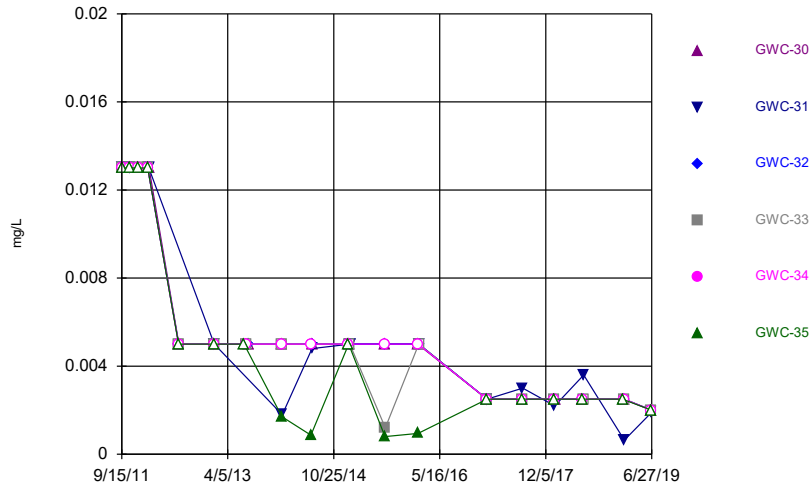
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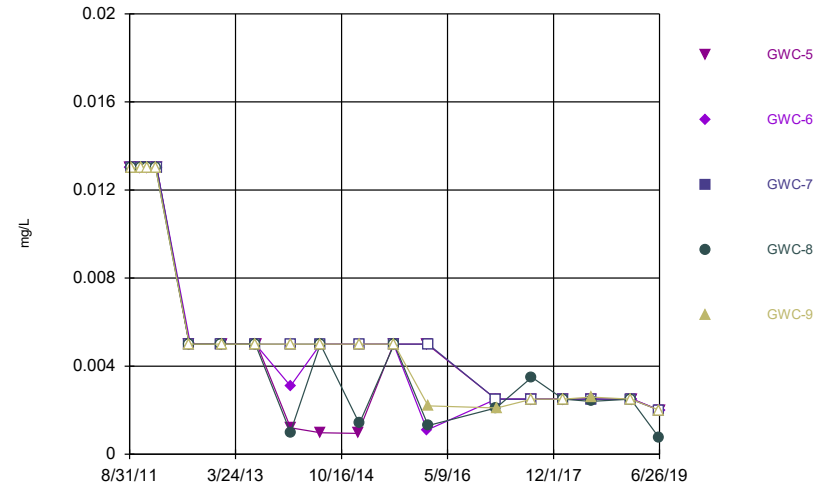


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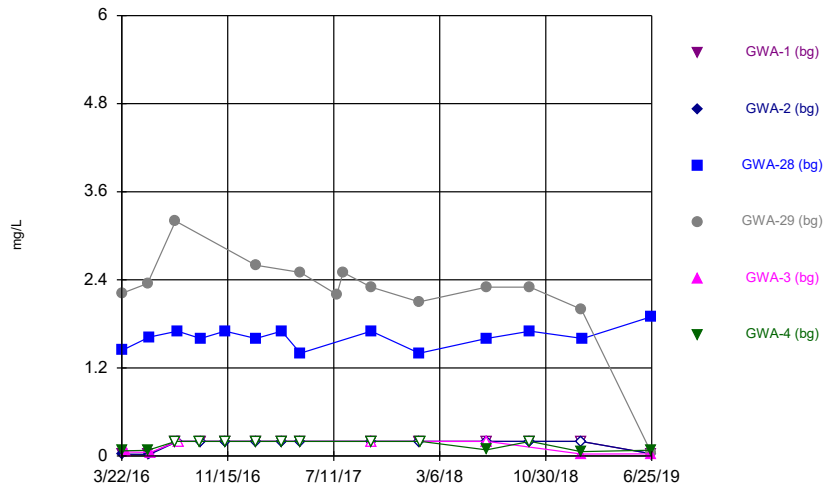
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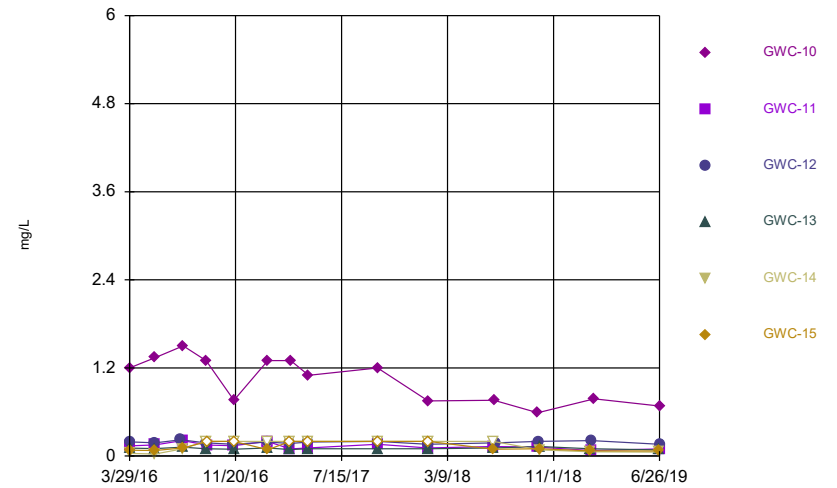
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Fluoride



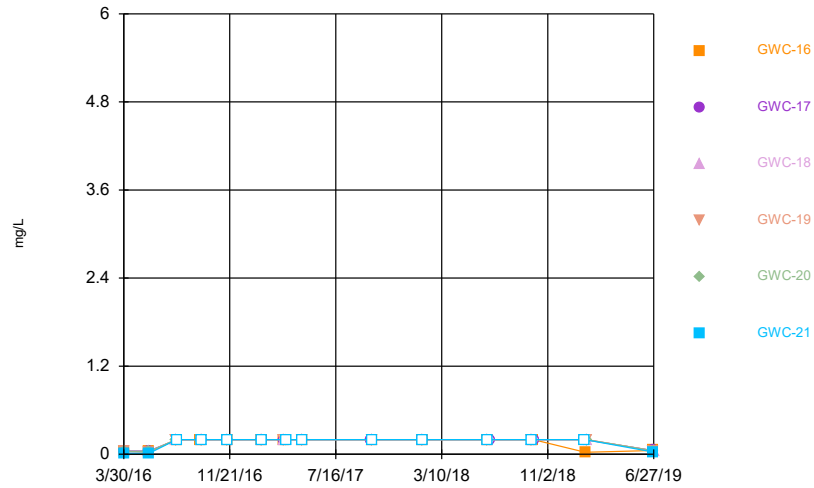
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### Fluoride



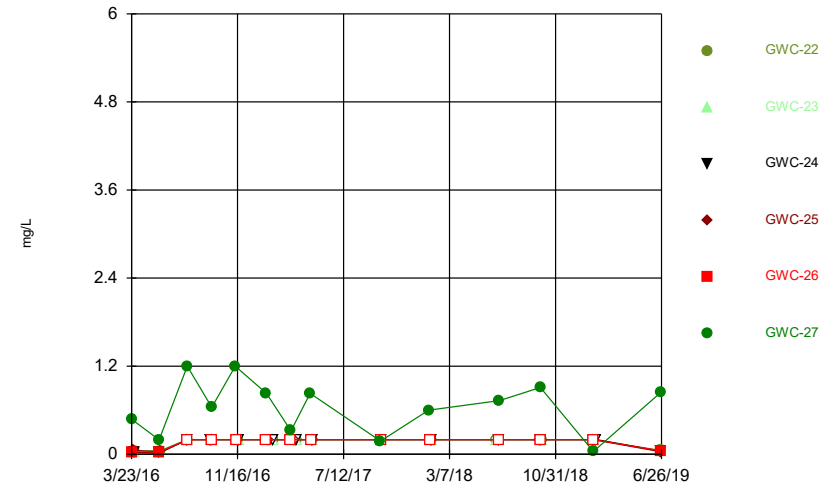
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### Fluoride



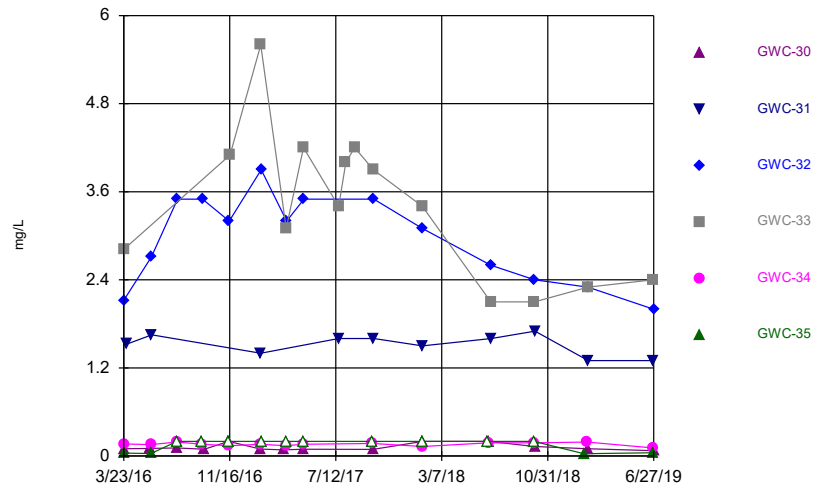
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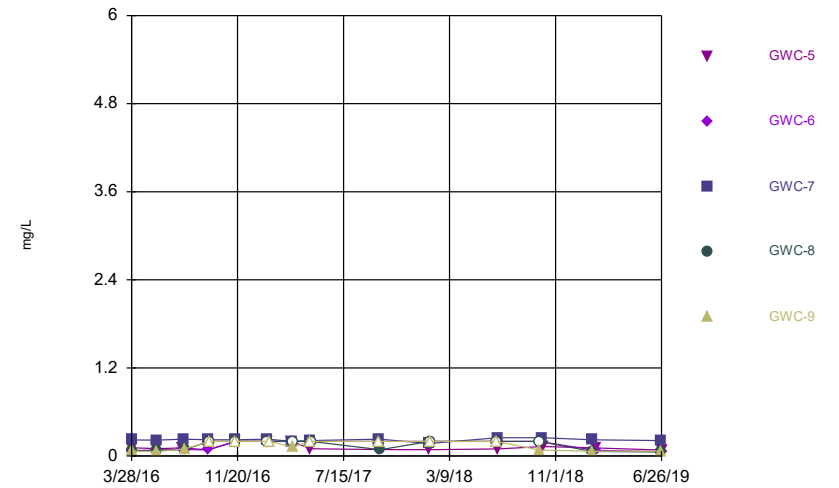
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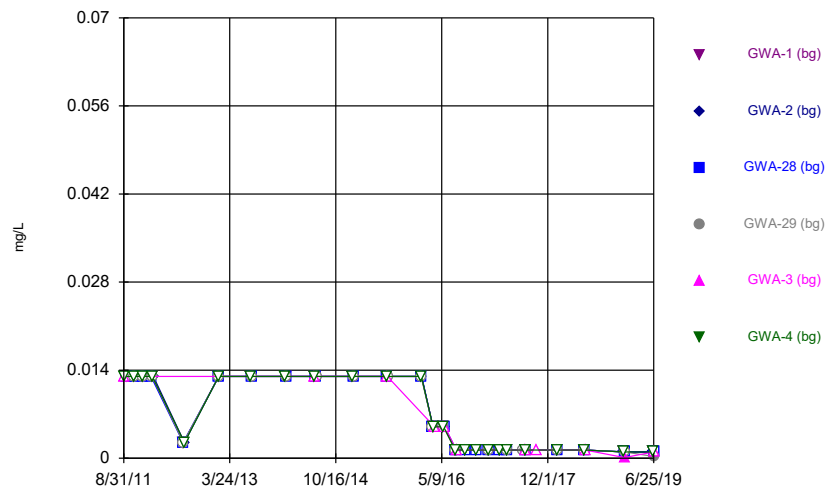
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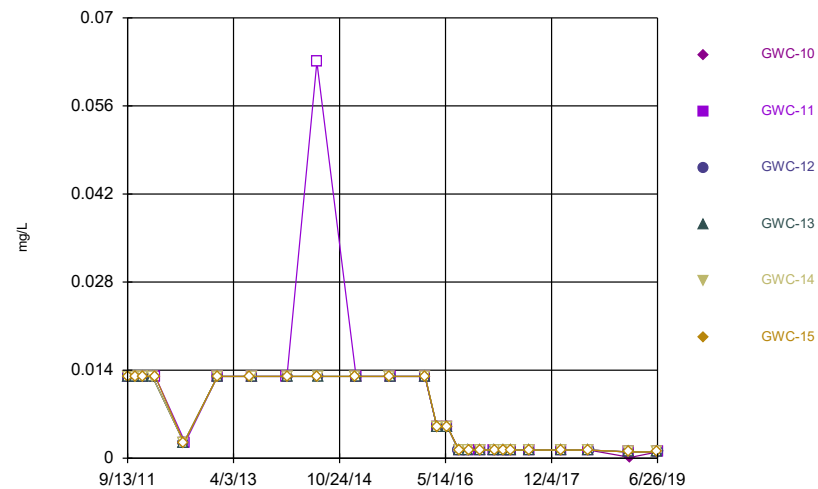
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### Lead



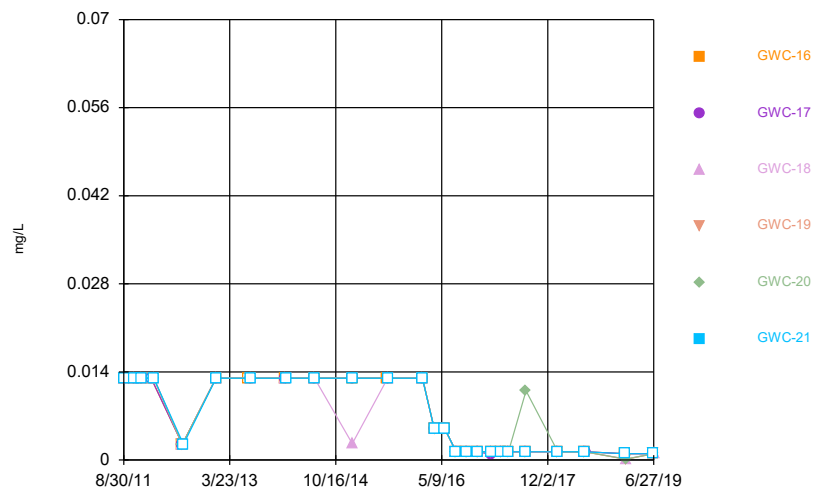
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### Lead



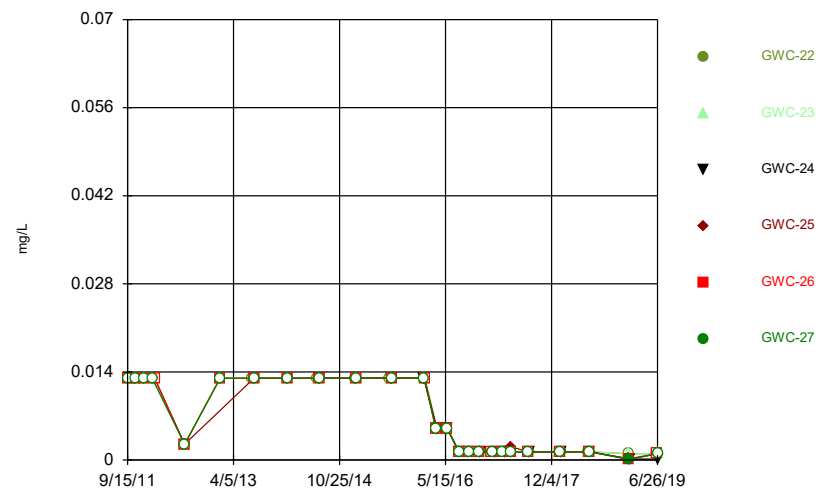
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### Lead



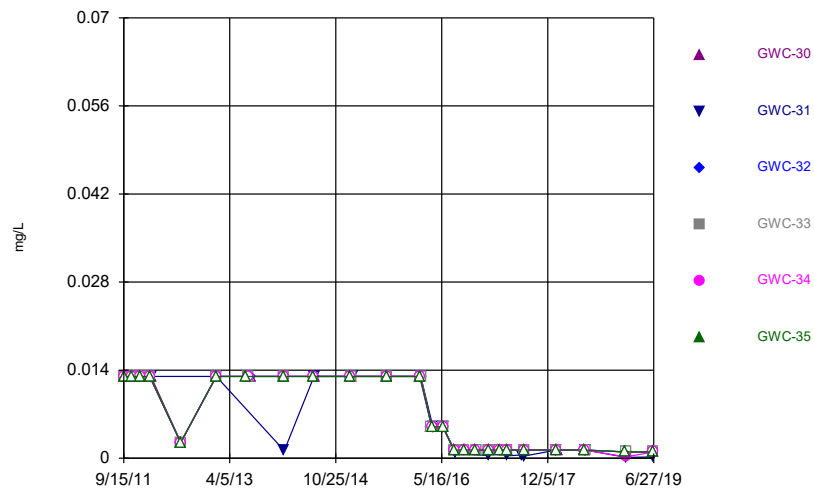
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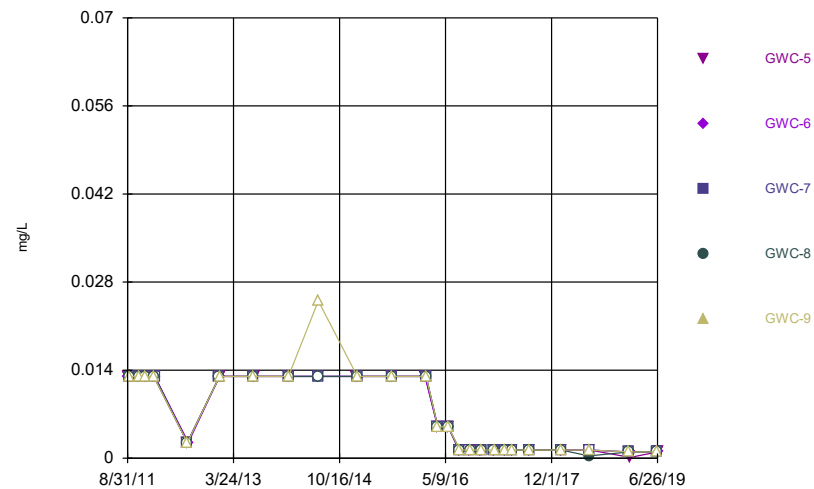
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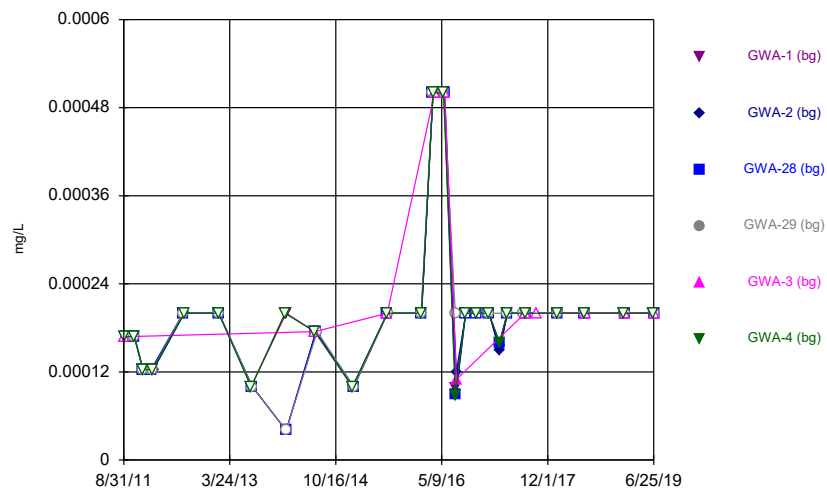
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### Lead



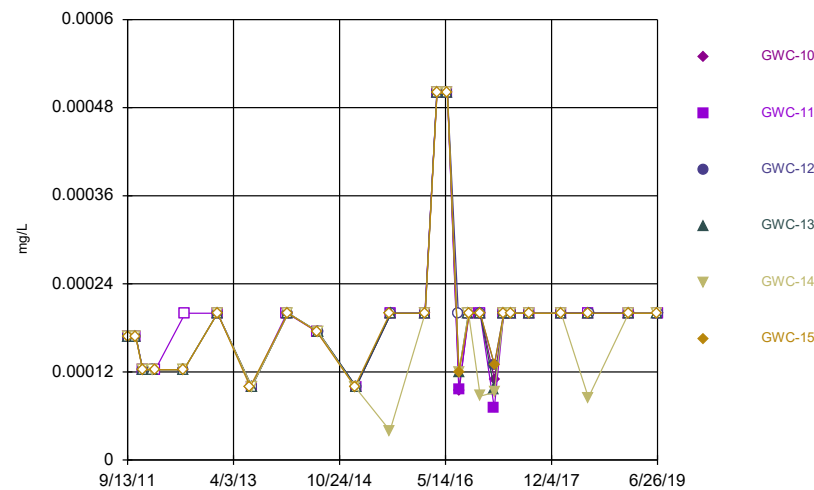
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### Mercury



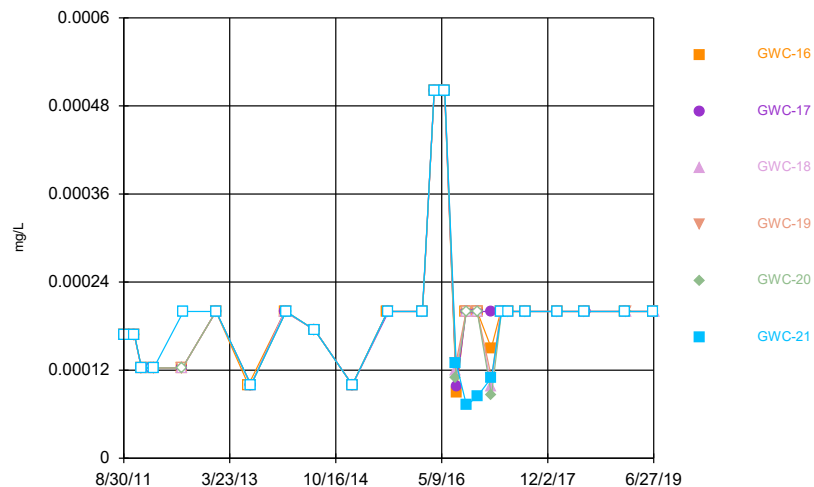
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### Mercury



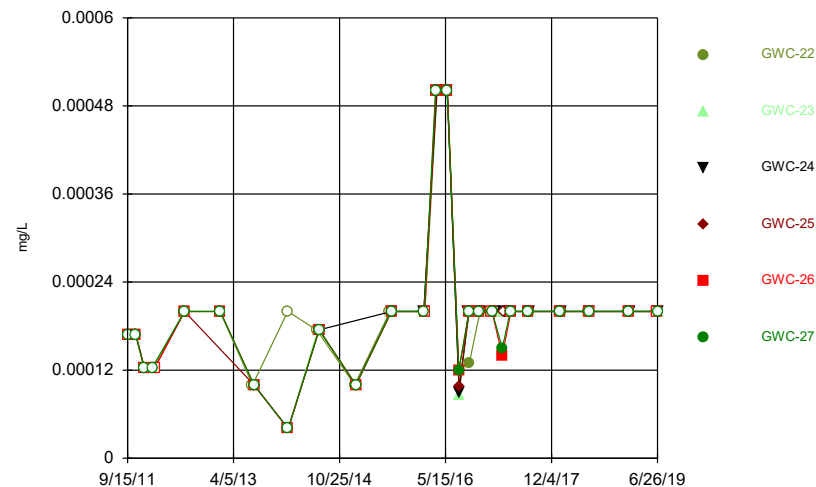
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### Mercury



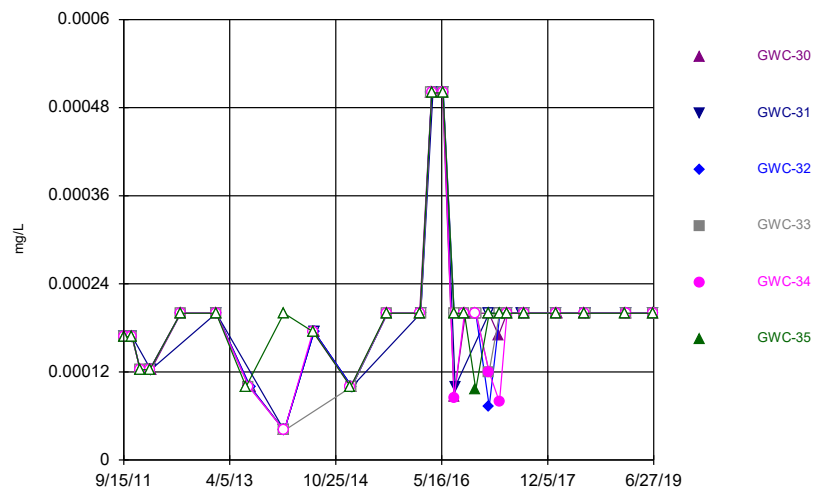
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### Mercury



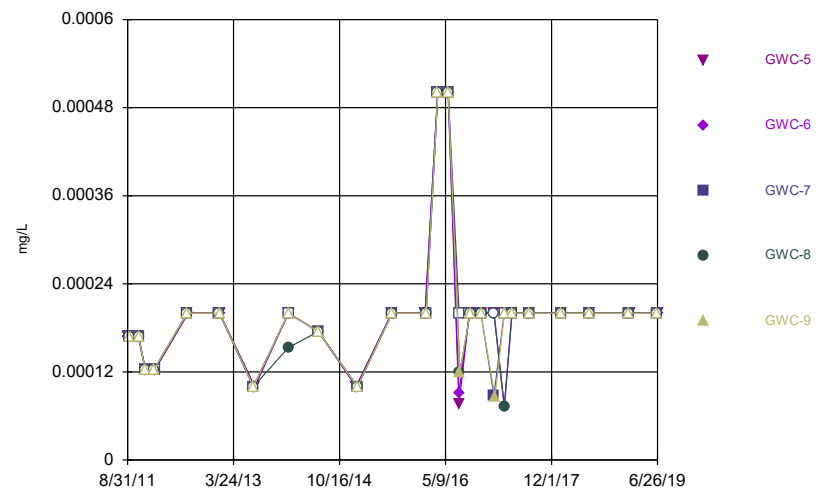
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### Mercury



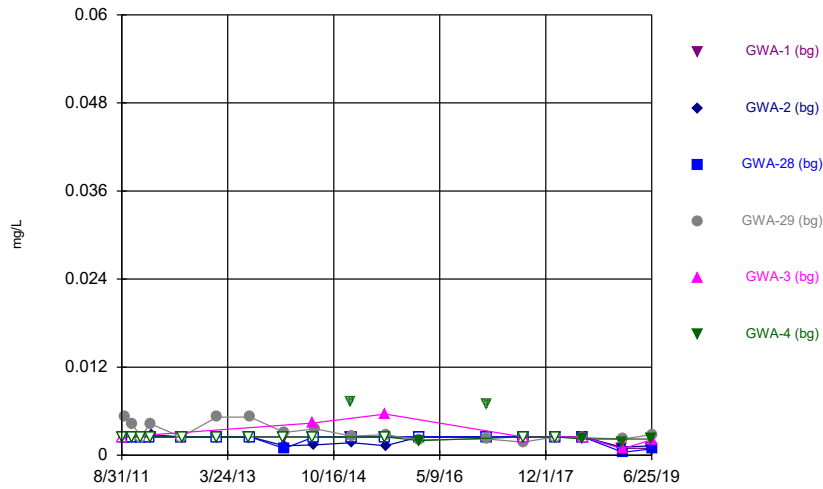
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### Mercury



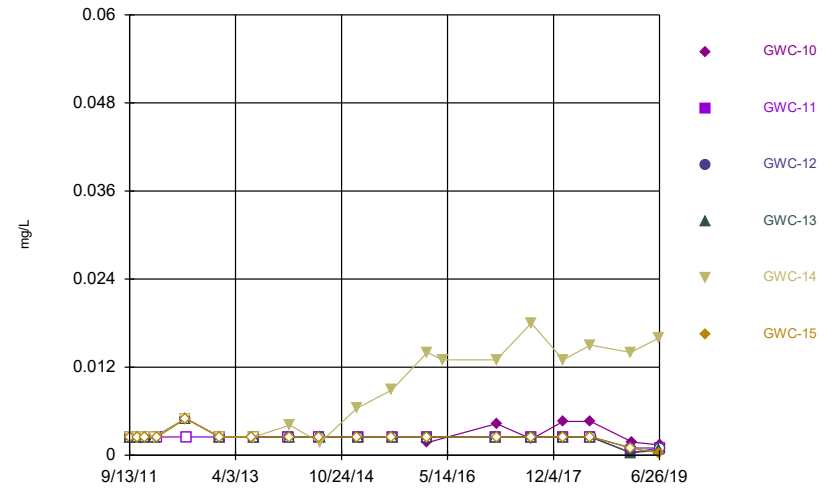
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Nickel



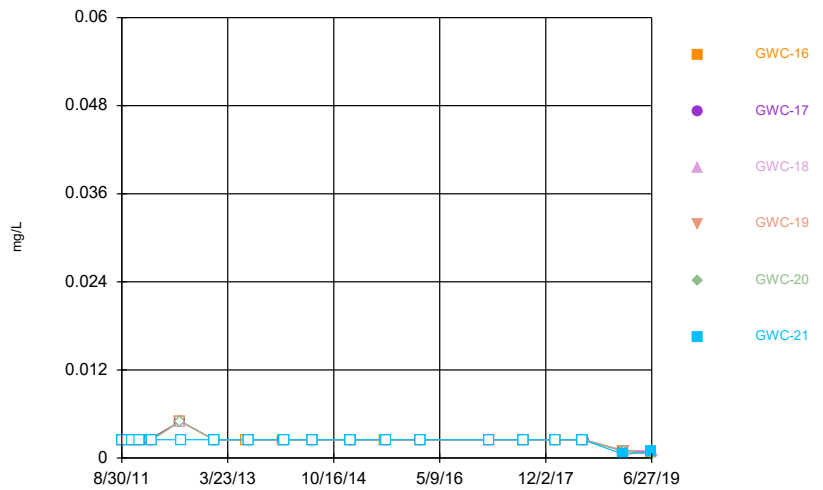
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### Nickel



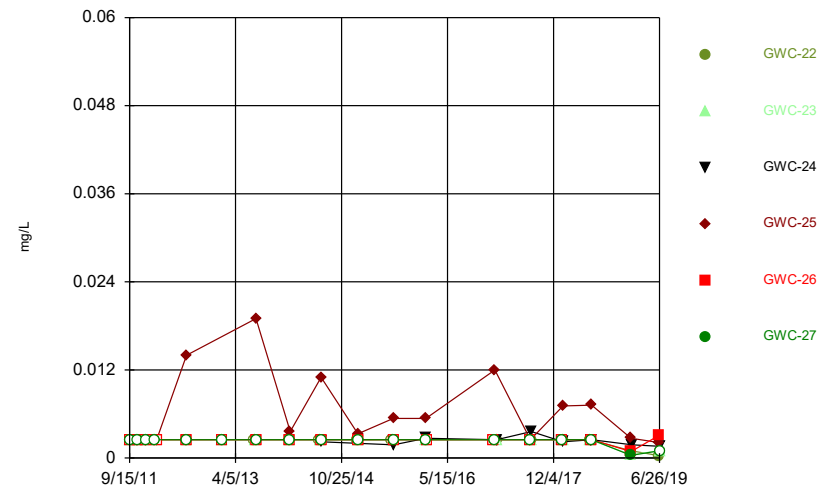
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### Nickel



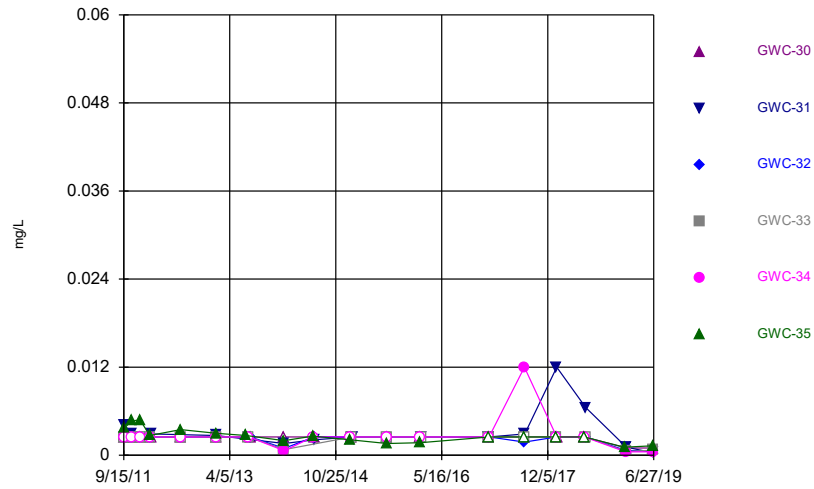
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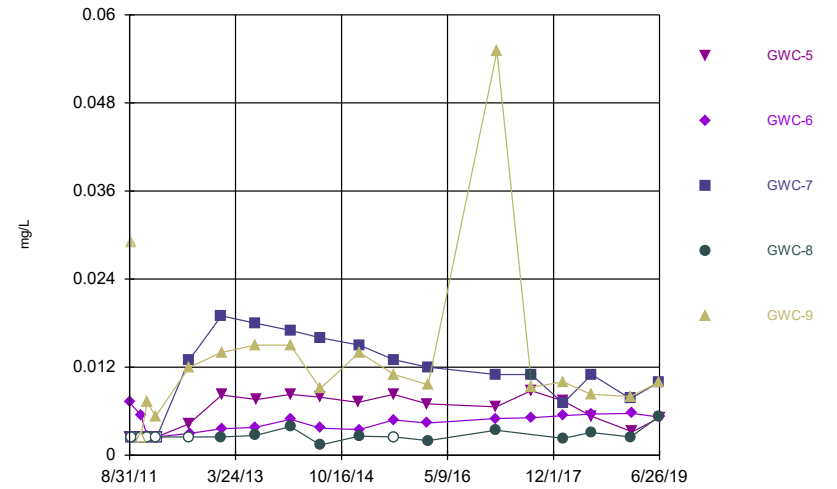
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### Nickel



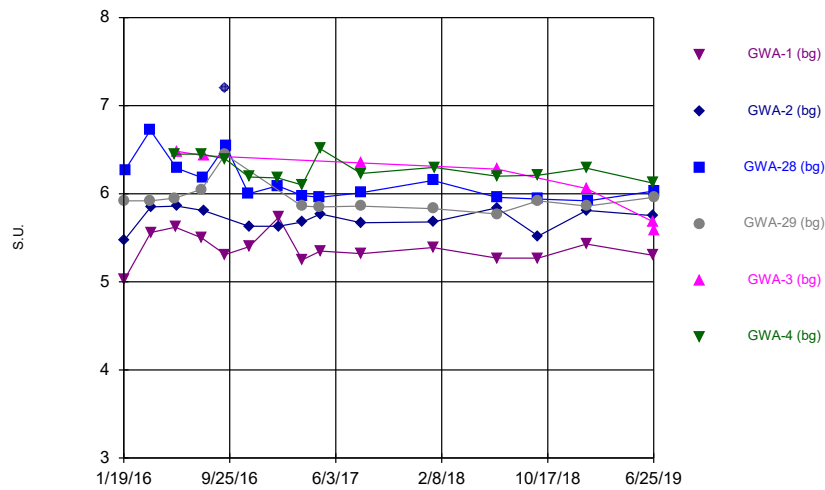
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### Nickel



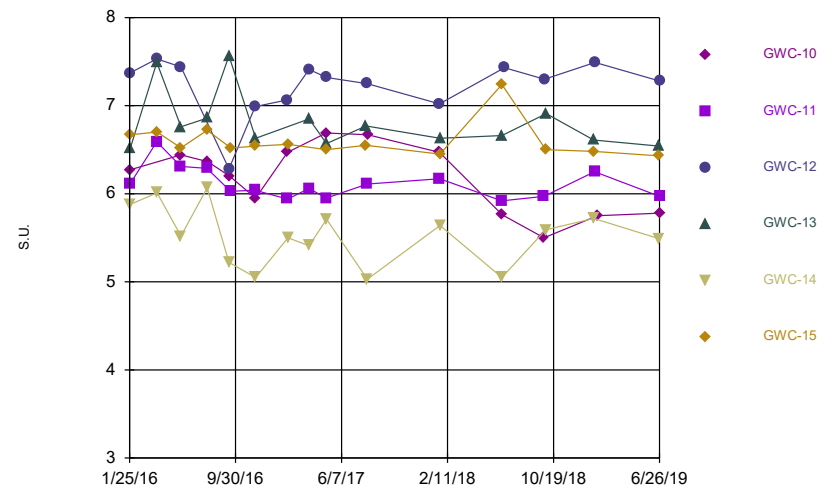
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### pH



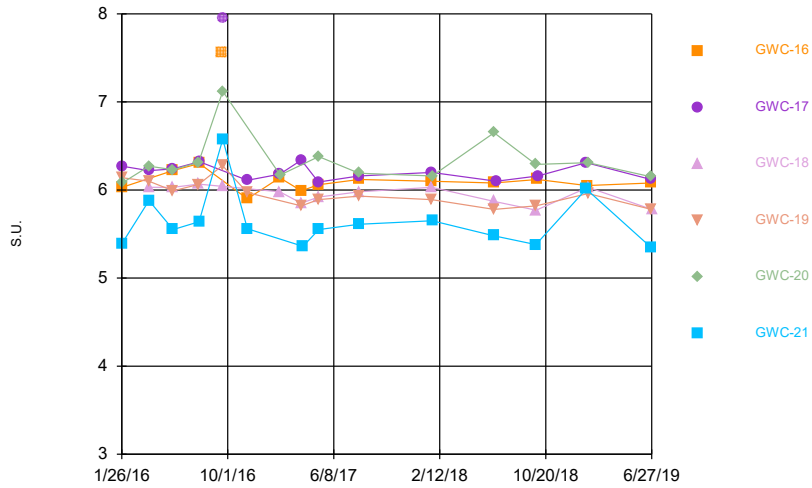
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### pH



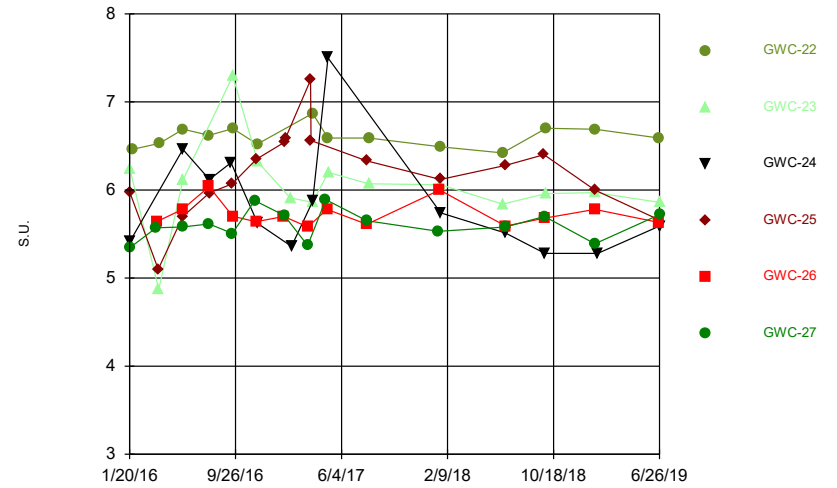
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pH



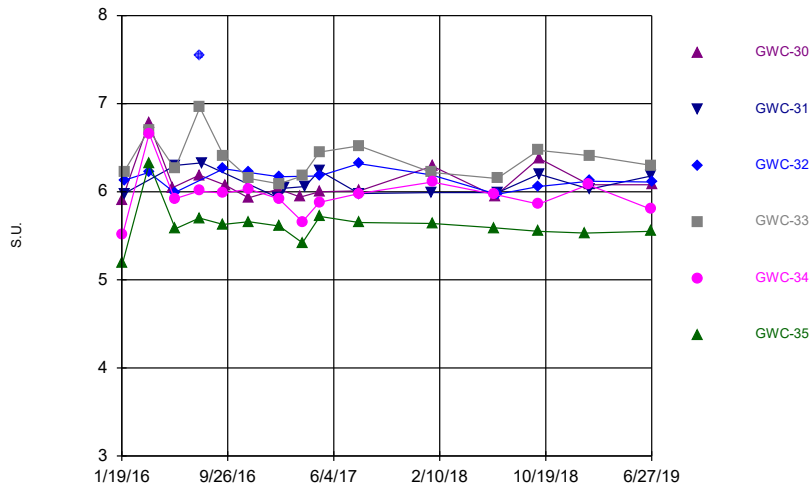
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pH



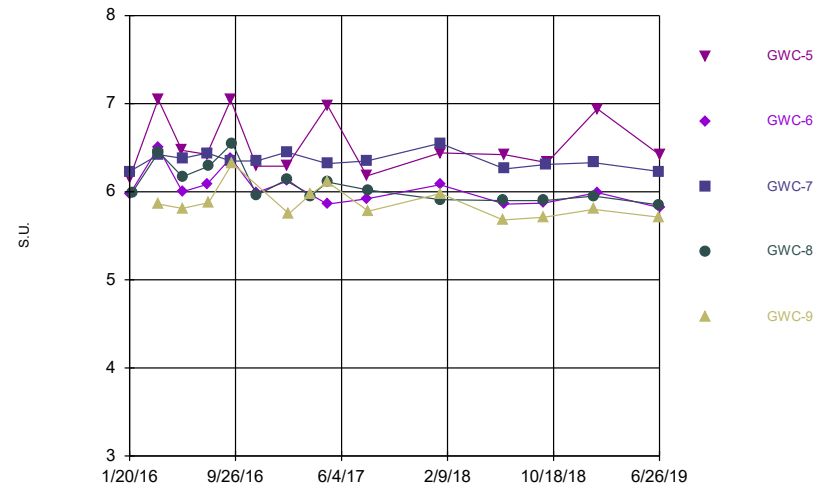
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pH



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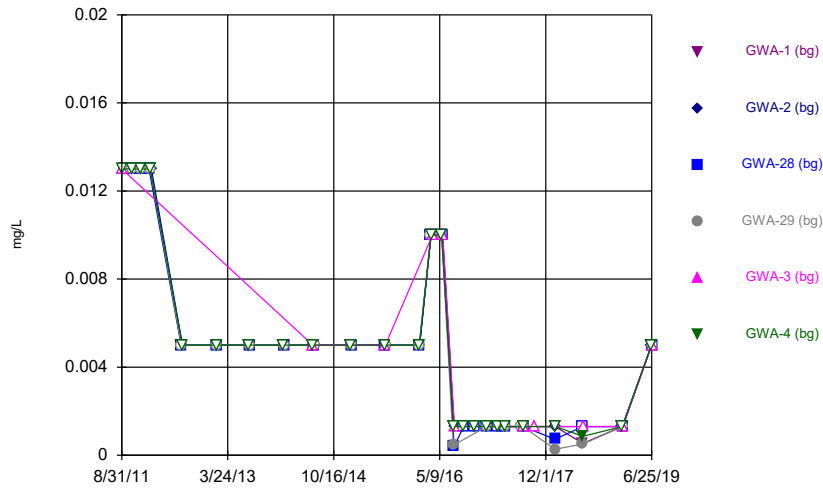
pH



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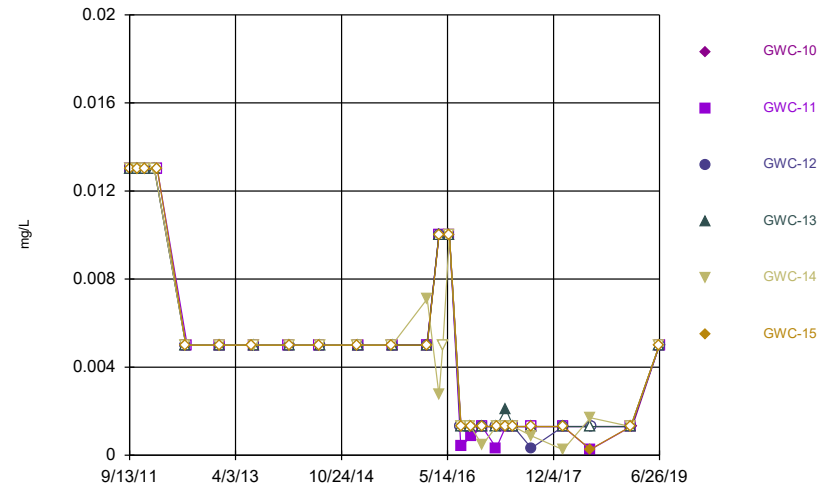


### Selenium



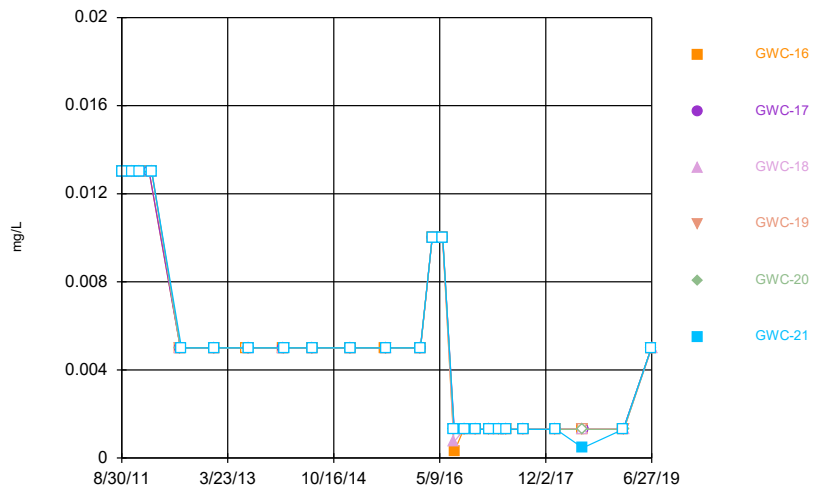
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### Selenium



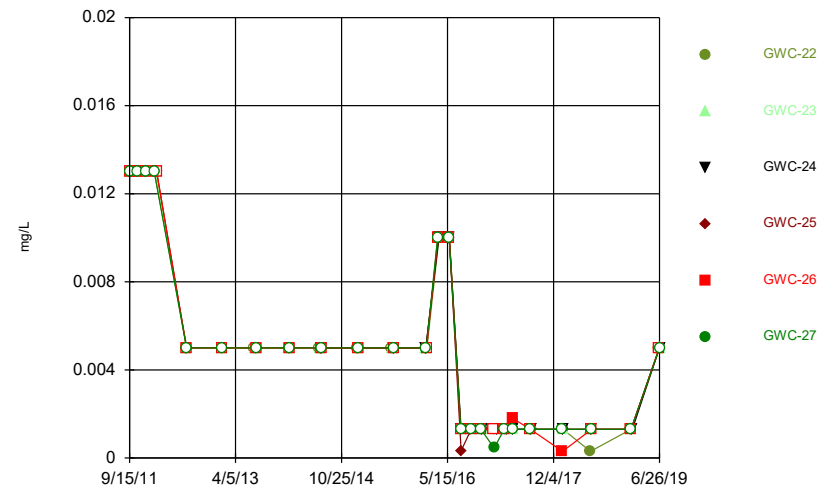
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### Selenium



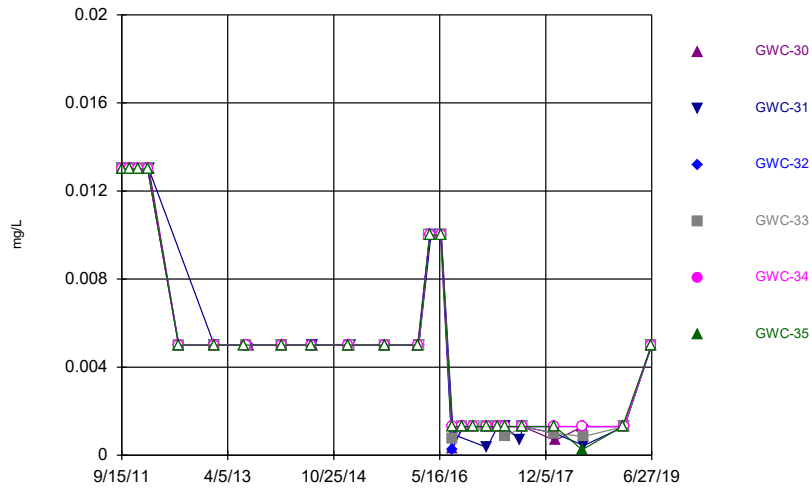
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### Selenium



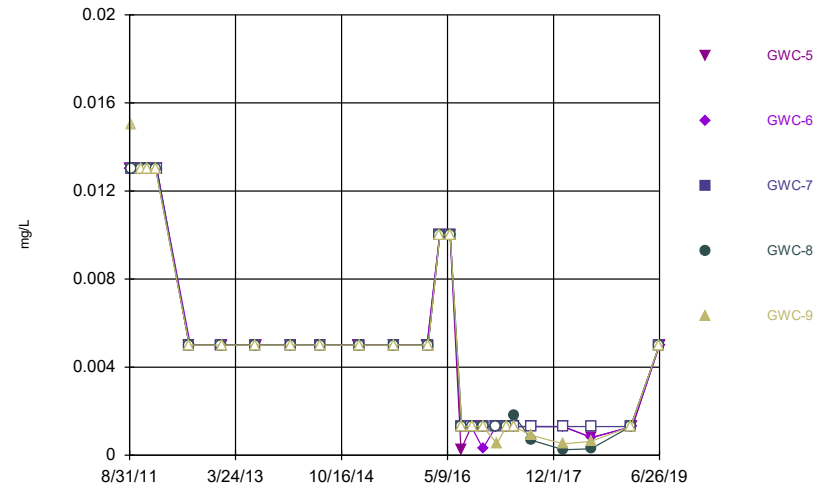
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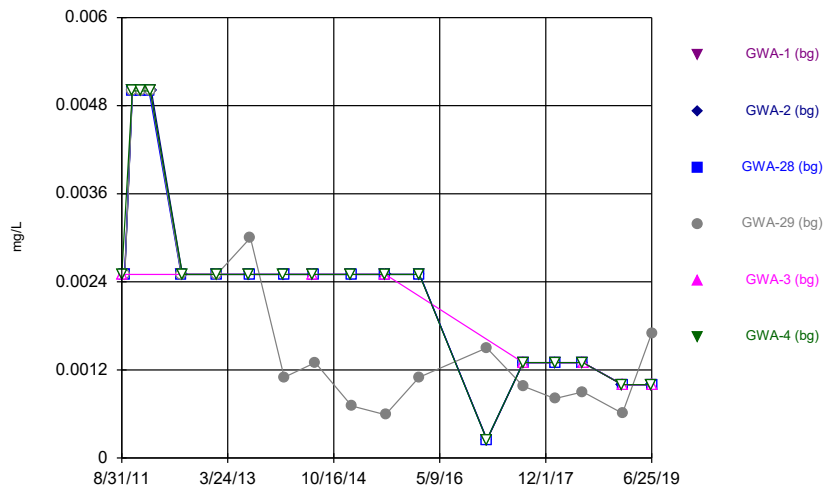
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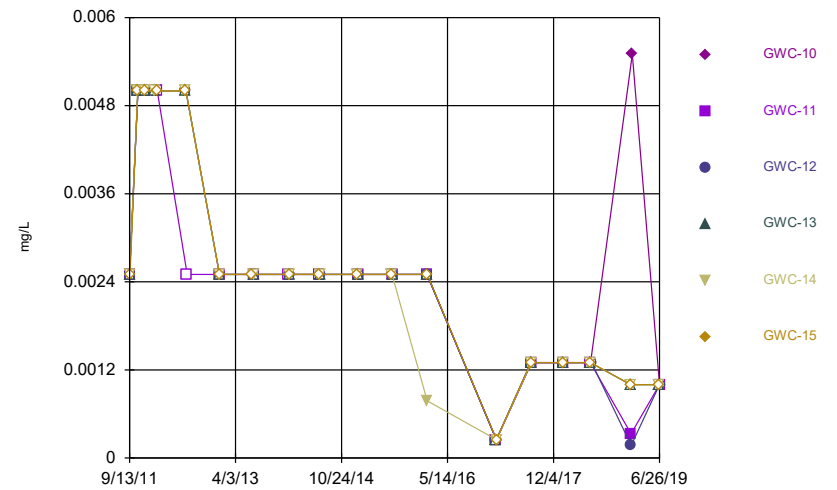
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### Silver



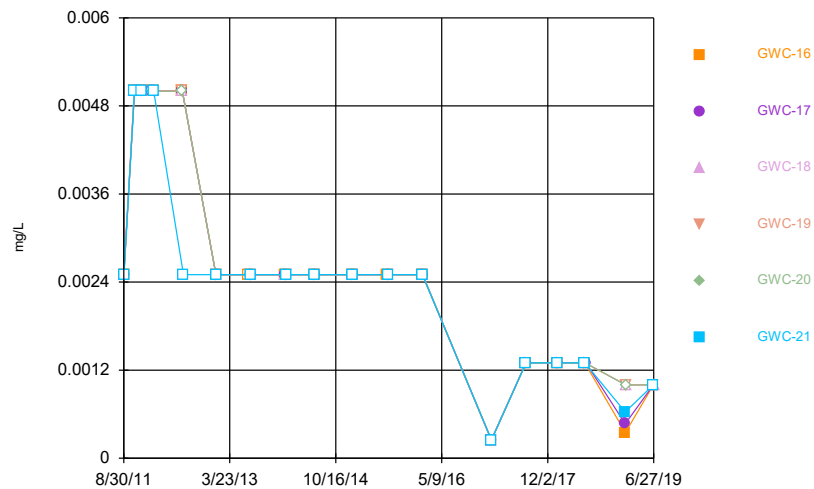
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### Silver



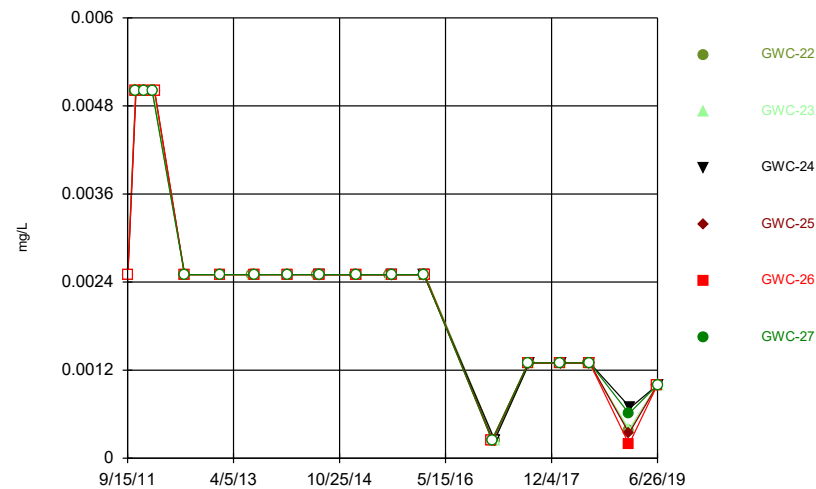
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Silver



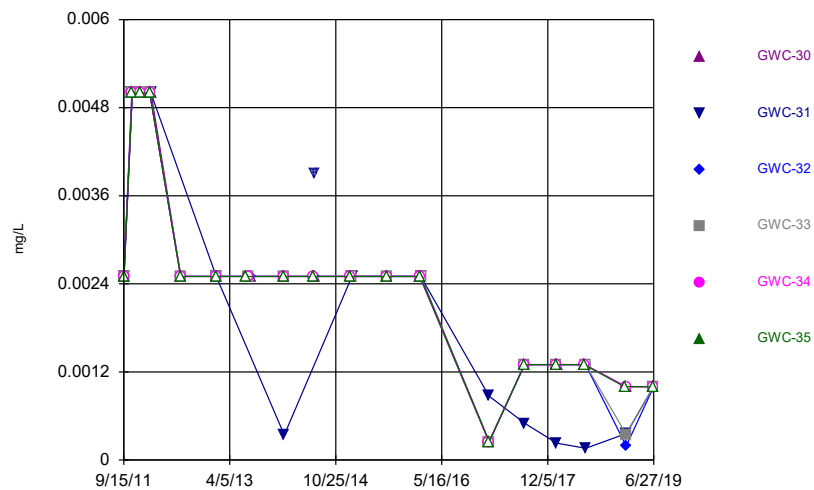
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Silver



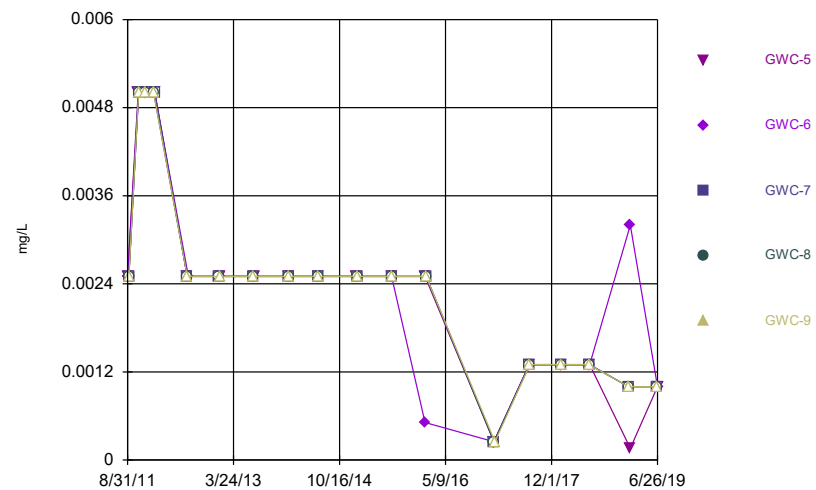
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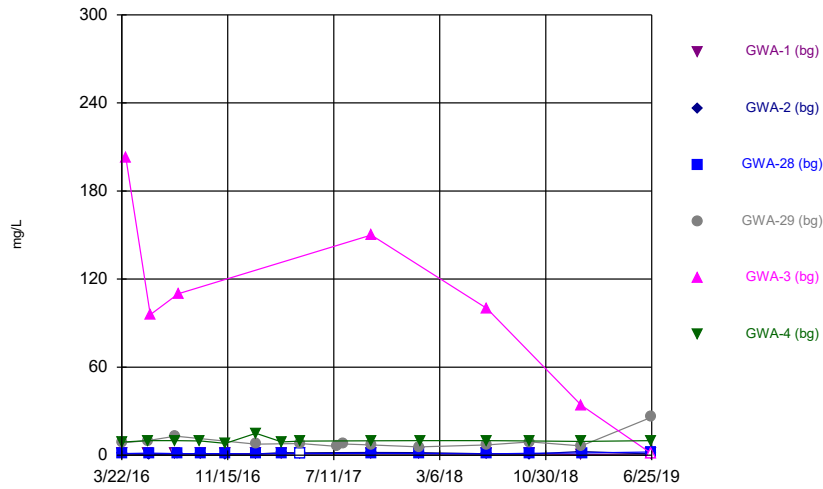
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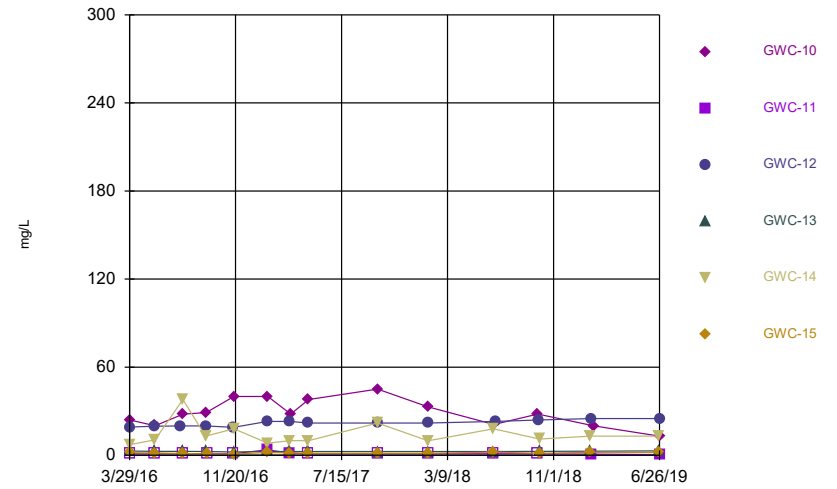
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### Sulfate



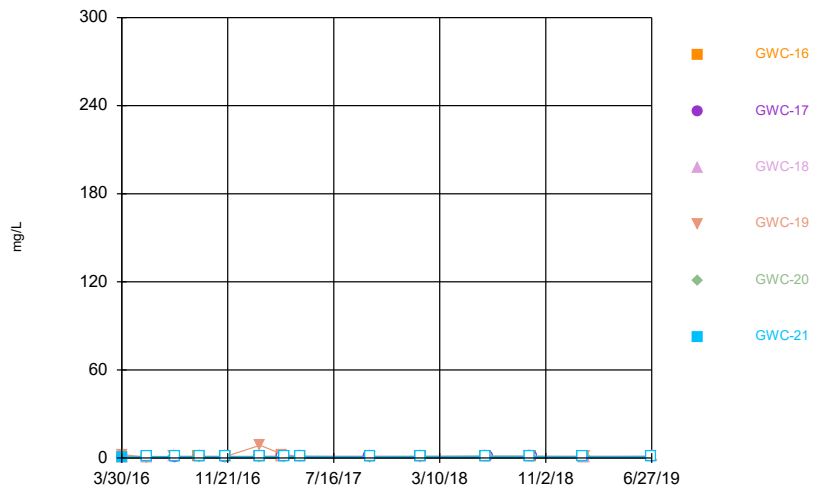
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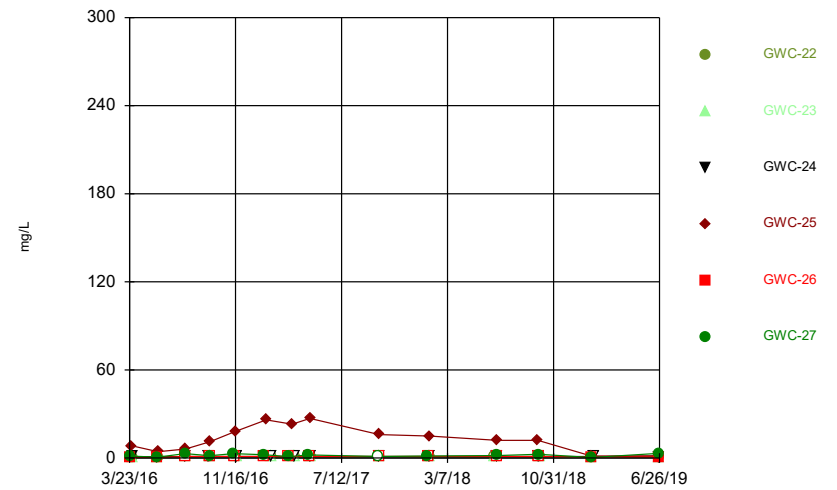
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### Sulfate



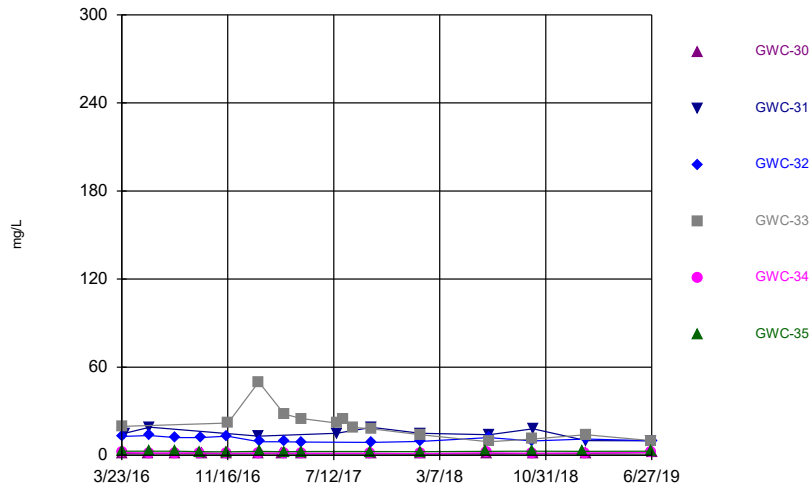
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### Sulfate



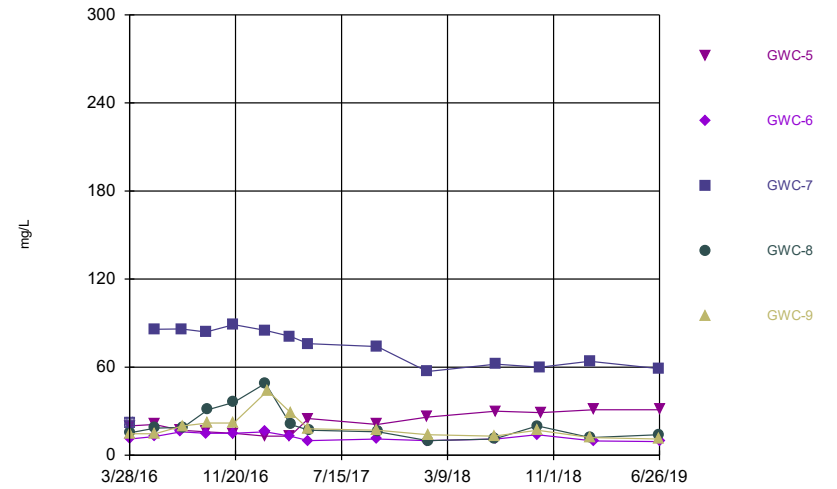
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### Sulfate



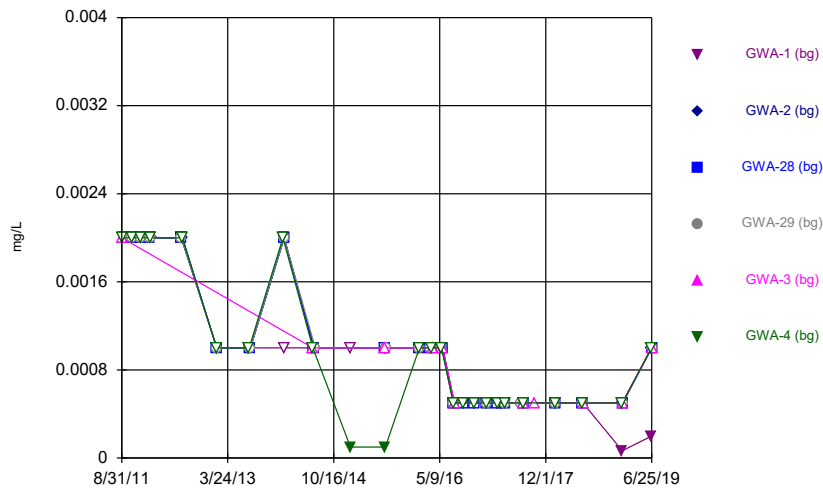
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### Sulfate



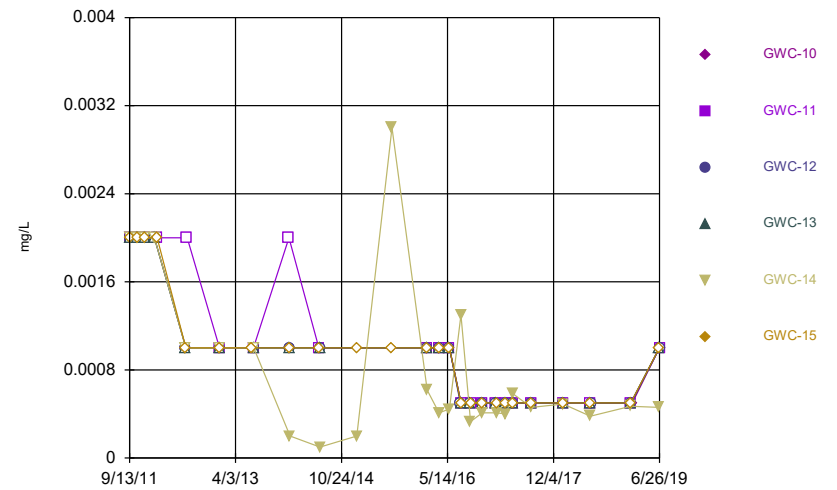
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### Thallium



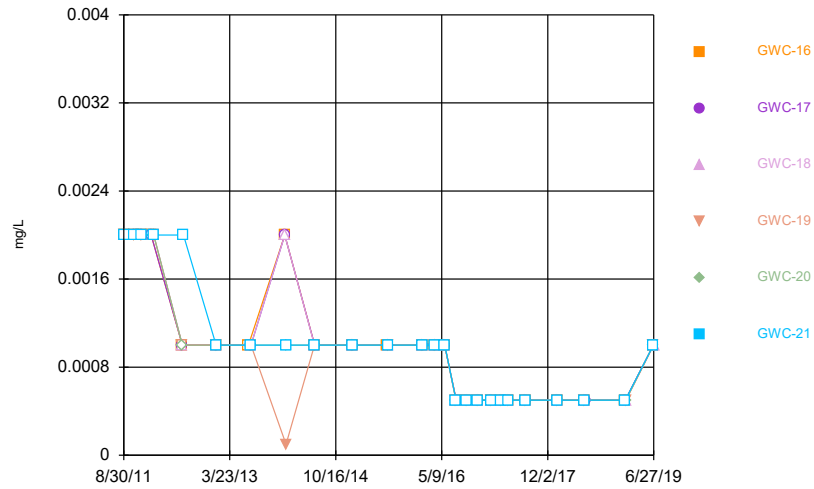
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### Thallium



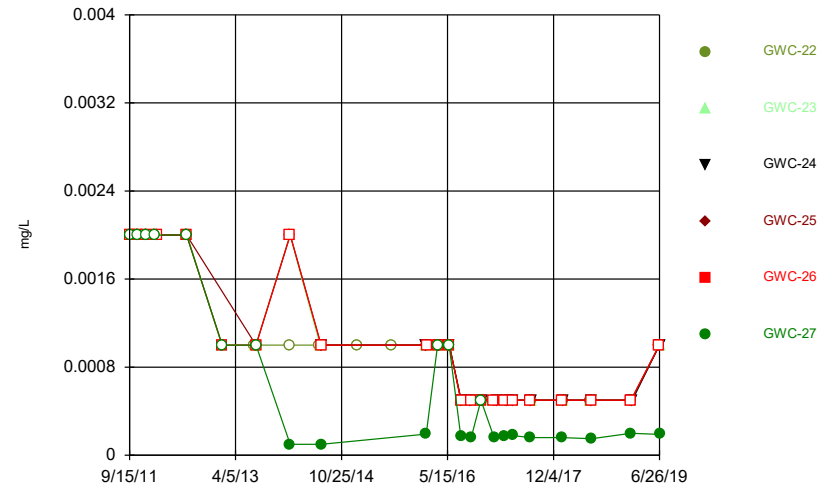
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### Thallium



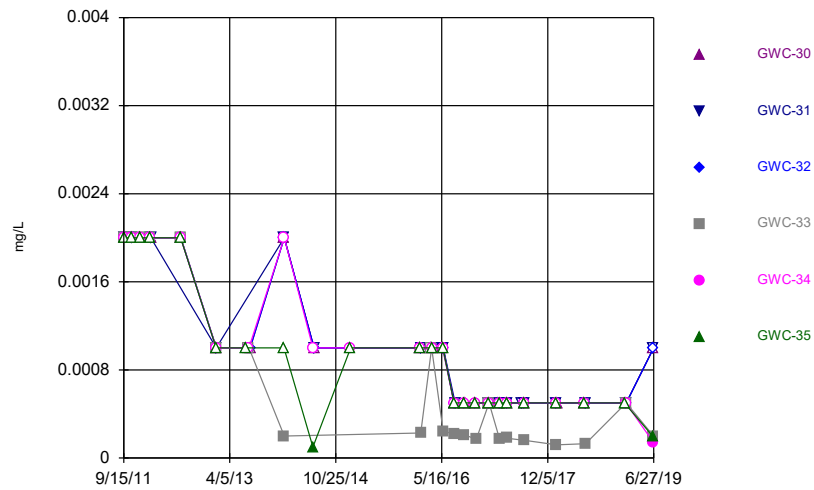
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### Thallium



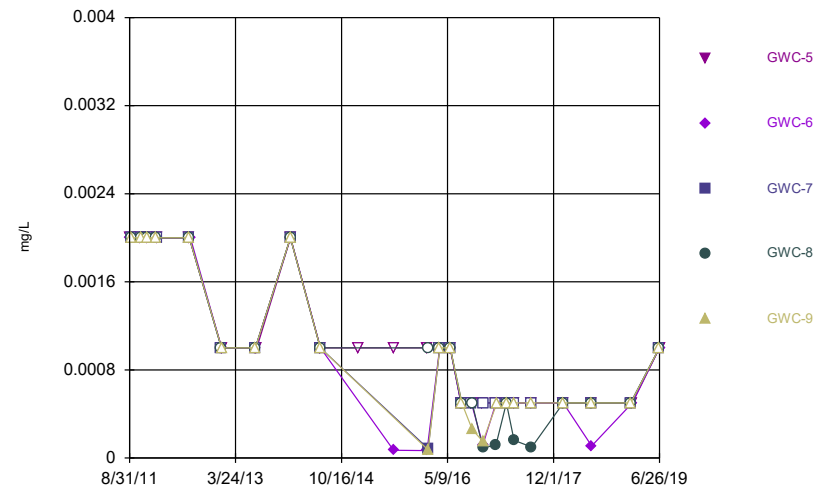
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### Thallium



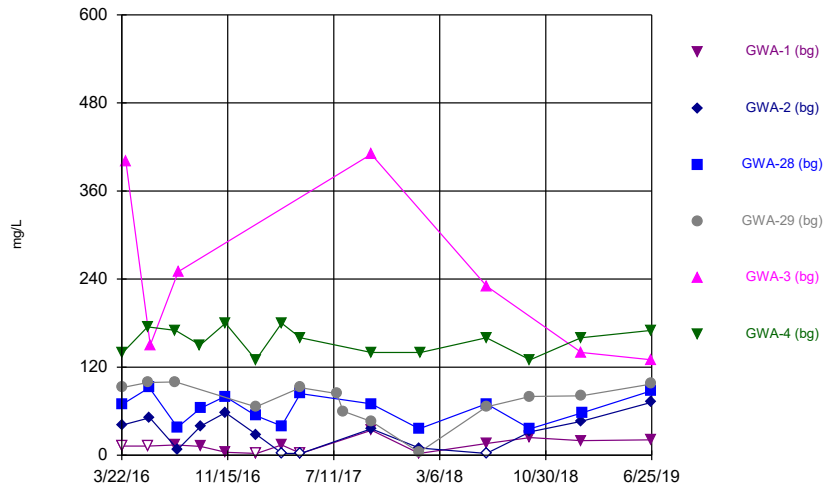
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### Thallium



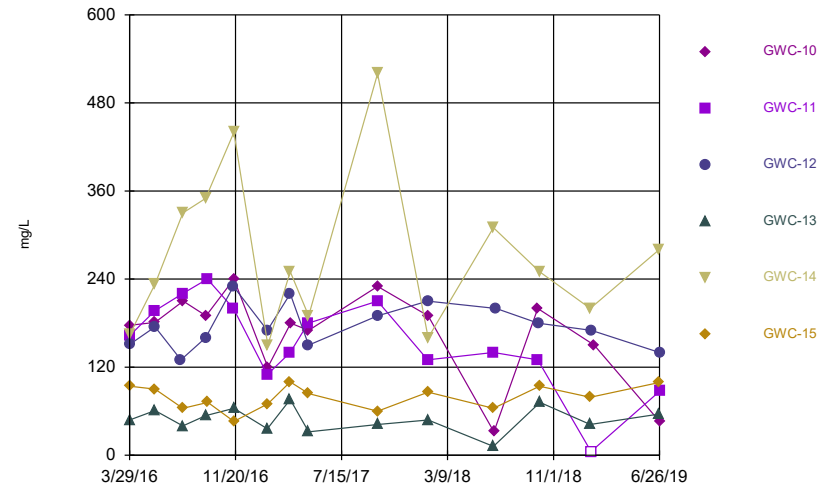
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### Total Dissolved Solids



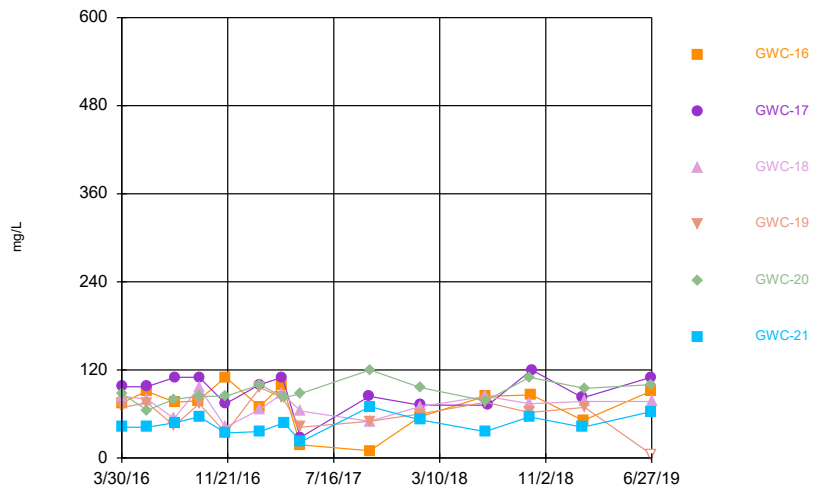
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### Total Dissolved Solids



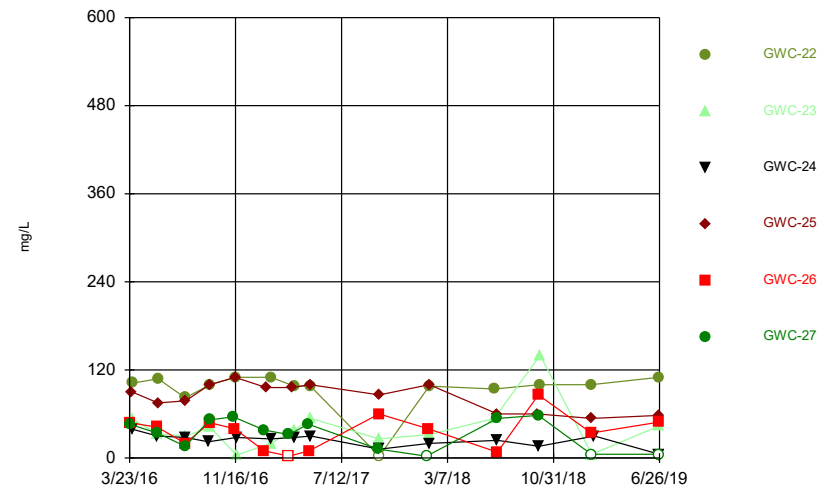
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



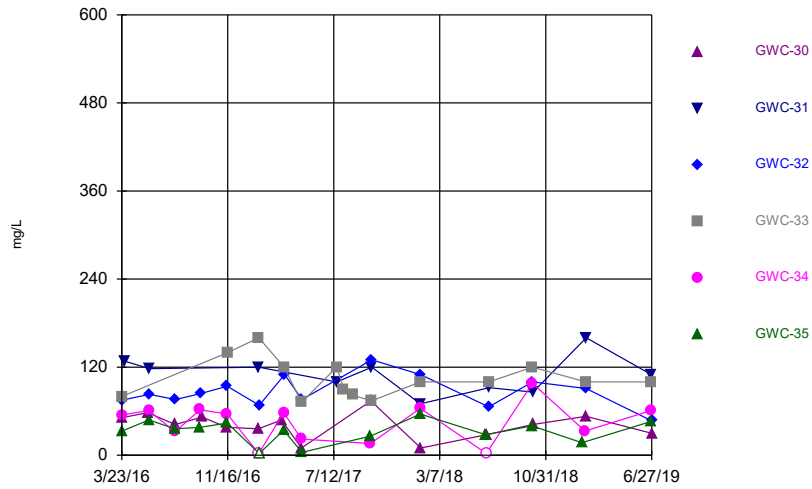
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### Total Dissolved Solids



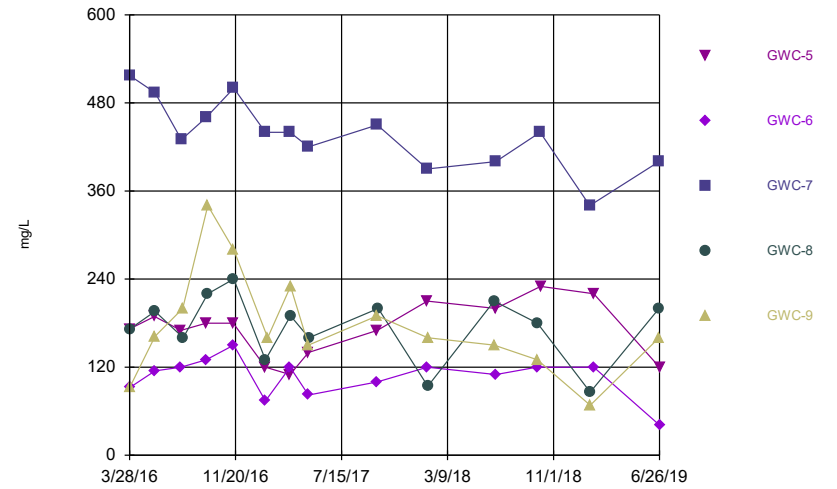
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



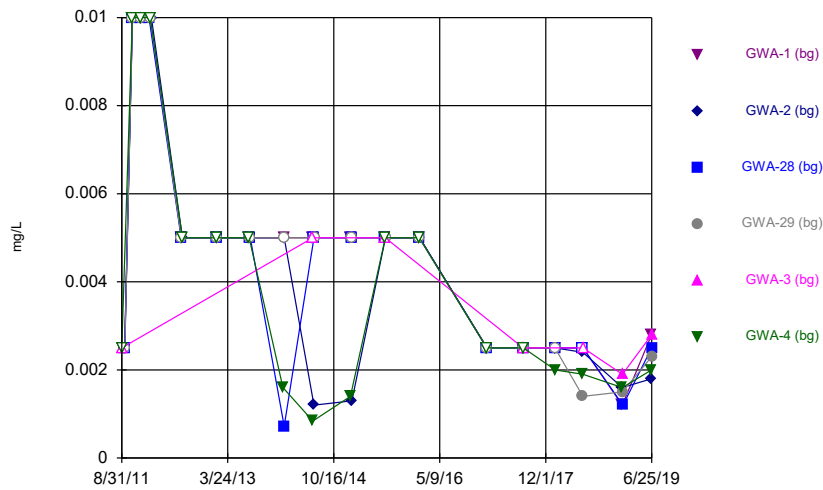
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



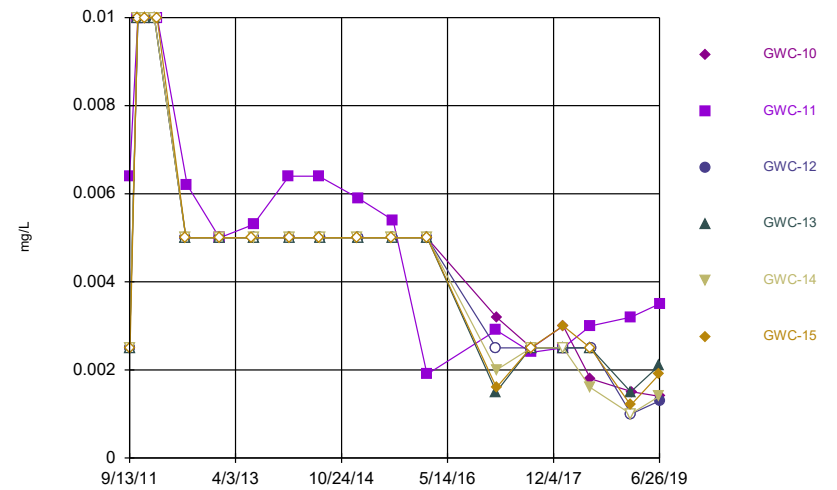
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



Time Series Analysis Run 8/8/2019 2:12 PM View: Time Series  
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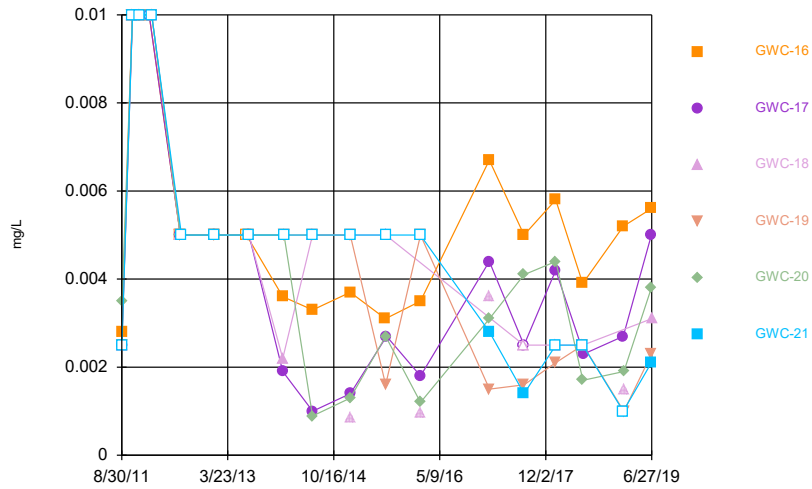
### Vanadium



Time Series Analysis Run 8/8/2019 2:12 PM View: Time Series  
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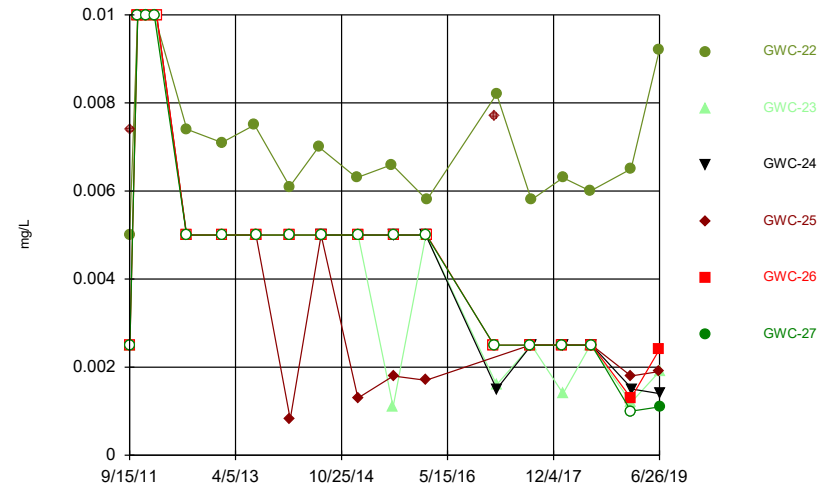


### Vanadium



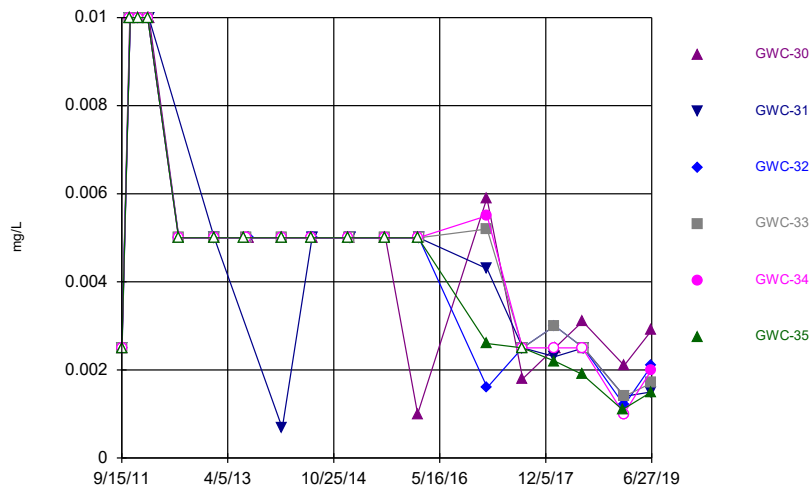
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



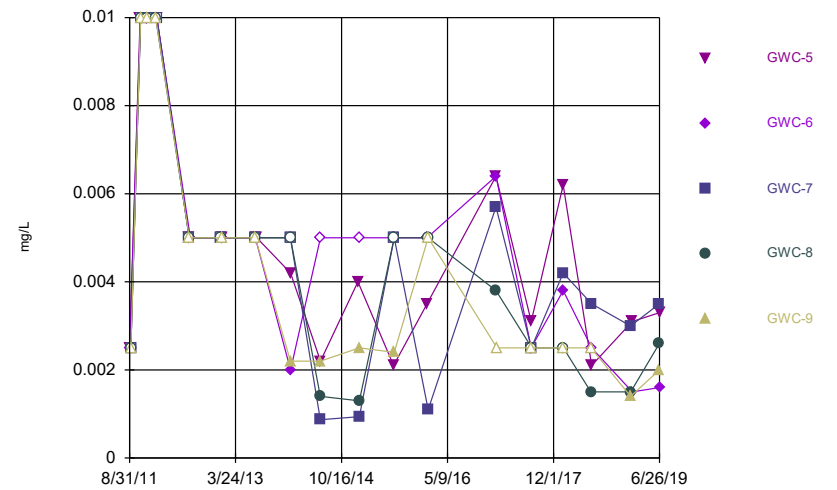
Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



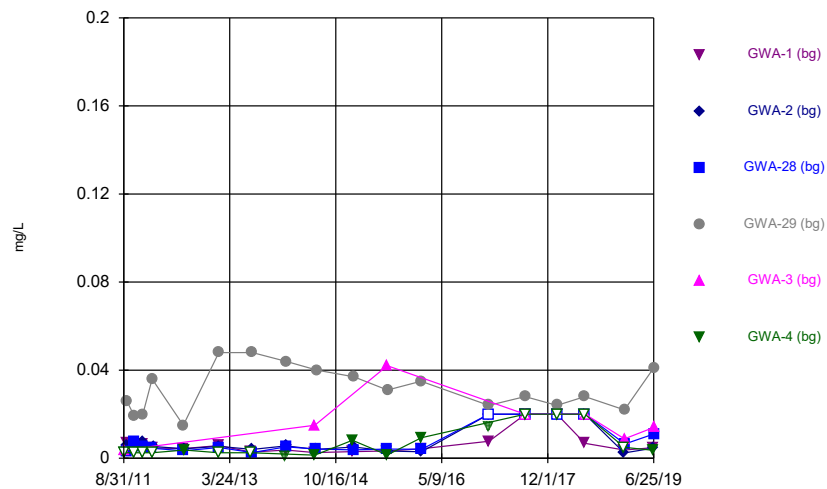
Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



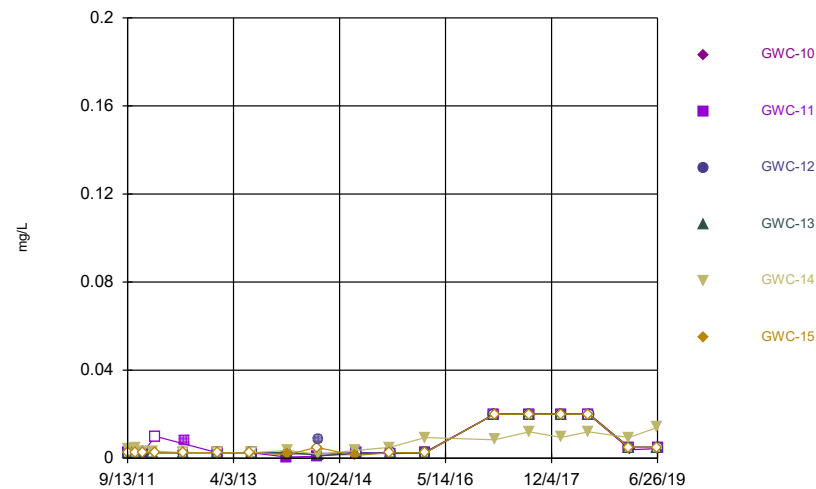
Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



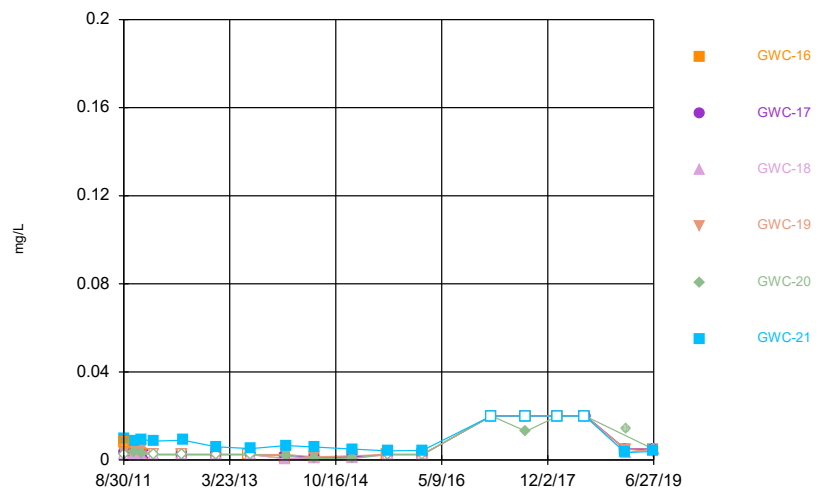
Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



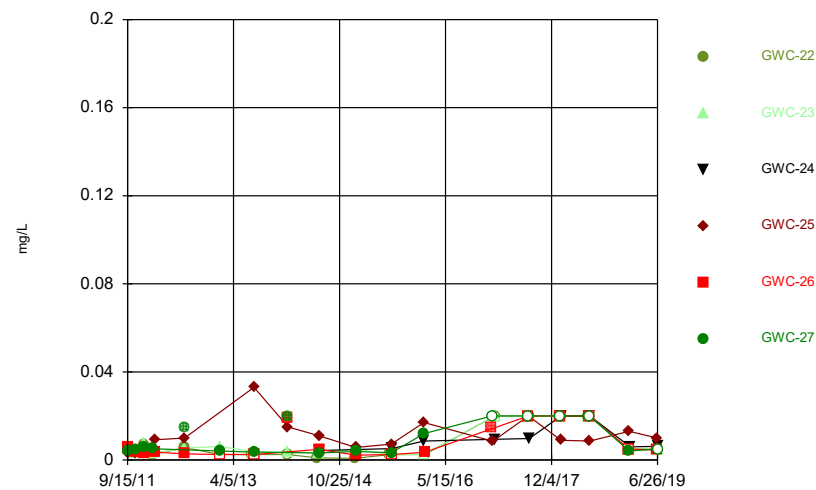
Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



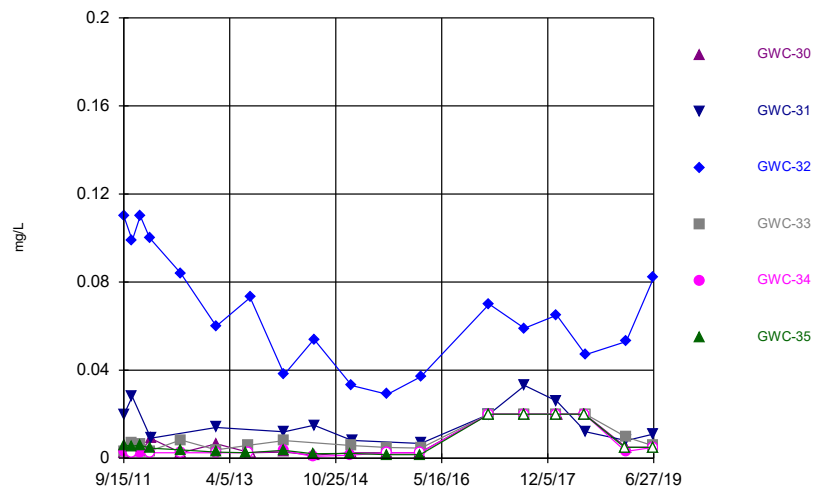
Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



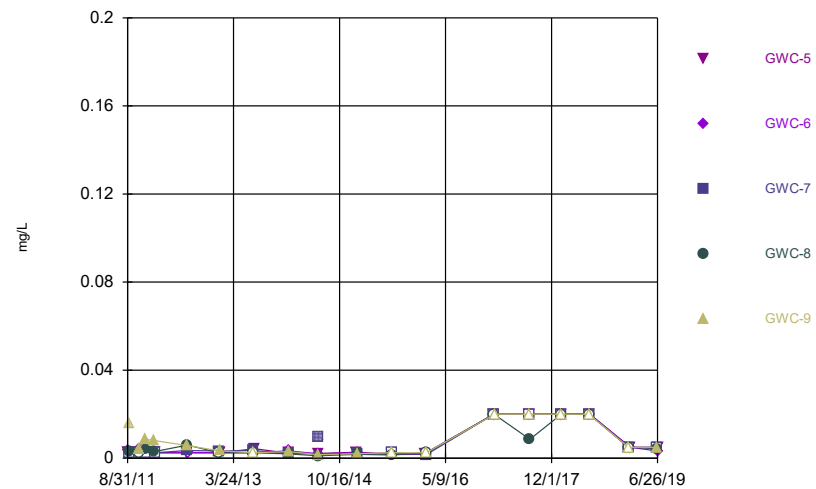
Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



Time Series Analysis Run 8/8/2019 2:13 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

**100% ND**

Date: 11/14/2019 2:30 PM

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 (mg/L)

GWA-2, GWA-28, GWA-3, GWA-4, GWC-13, GWC-16, GWC-17, GWC-18, GWC-20, GWC-21, GWC-22, 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-8, GWC-9

## Cobalt (mg/L)

GWA-28, GWC-13, GWC-17, GWC-18, GWC-22, 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-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-22, GWC-23, GWC-30, GWC-32, GWC-35, GWC-6, GWC-7, GWC-9

## 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-2, GWA-28, GWA-29, GWA-3, GWC-10, GWC-11, GWC-12, GWC-13, GWC-15, GWC-16, GWC-17, GWC-18, GWC-20, GWC-22, GWC-23, GWC-26, GWC-30, GWC-31, GWC-32, GWC-5

# Interwell Prediction Limit Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 11/14/2019, 4:57 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
<b>Boron (mg/L)</b>	<b>GWC-14</b>	<b>0.08</b>	<b>9/12/2019</b>	<b>1.8</b>	<b>Yes</b>	<b>83</b>	<b>97.59</b>	<b>n/a</b>	<b>0.0002723</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron (mg/L)</b>	<b>GWC-9</b>	<b>0.08</b>	<b>9/16/2019</b>	<b>0.19</b>	<b>Yes</b>	<b>83</b>	<b>97.59</b>	<b>n/a</b>	<b>0.0002723</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>GWC-14</b>	<b>24</b>	<b>9/12/2019</b>	<b>190</b>	<b>Yes</b>	<b>82</b>	<b>1.22</b>	<b>n/a</b>	<b>0.0002781</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>GWC-9</b>	<b>24</b>	<b>9/16/2019</b>	<b>29</b>	<b>Yes</b>	<b>82</b>	<b>1.22</b>	<b>n/a</b>	<b>0.0002781</b>	<b>NP Inter (normality) 1 of 2</b>

# Interwell Prediction Limit All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 11/14/2019, 4:57 PM

Constituent	Well	Upper Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-11	0.08	9/16/2019	0.08ND	No	83	97.59	n/a	0.0002723	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.08	9/11/2019	0.042	No	83	97.59	n/a	0.0002723	NP Inter (NDs) 1 of 2
<b>Boron (mg/L)</b>	<b>GWC-14</b>	<b>0.08</b>	<b>9/12/2019</b>	<b>1.8</b>	<b>Yes</b>	<b>83</b>	<b>97.59</b>	<b>n/a</b>	<b>0.0002723</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron (mg/L)	GWC-15	0.08	9/17/2019	0.08ND	No	83	97.59	n/a	0.0002723	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-25	0.08	9/11/2019	0.08ND	No	83	97.59	n/a	0.0002723	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-33	0.08	9/12/2019	0.08ND	No	83	97.59	n/a	0.0002723	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8	0.08	9/10/2019	0.08ND	No	83	97.59	n/a	0.0002723	NP Inter (NDs) 1 of 2
<b>Boron (mg/L)</b>	<b>GWC-9</b>	<b>0.08</b>	<b>9/16/2019</b>	<b>0.19</b>	<b>Yes</b>	<b>83</b>	<b>97.59</b>	<b>n/a</b>	<b>0.0002723</b>	<b>NP Inter (NDs) 1 of 2</b>
Calcium (mg/L)	GWC-10	91	9/17/2019	7.2	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	91	9/16/2019	14	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	91	9/11/2019	42	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	91	9/12/2019	4.2	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	91	9/12/2019	52	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	91	9/17/2019	7.7	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	91	9/11/2019	7.1	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	91	9/11/2019	8	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-18	91	9/11/2019	7	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-19	91	9/12/2019	5.4	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	91	9/11/2019	8.4	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	91	9/11/2019	4.1	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	91	9/10/2019	11	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-23	91	9/12/2019	3.6	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-24	91	9/11/2019	0.9	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-25	91	9/11/2019	6	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-26	91	9/12/2019	1.8	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-27	91	9/12/2019	1.2	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-30	91	9/10/2019	4	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-31	91	9/11/2019	12	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-32	91	9/12/2019	10	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-33	91	9/12/2019	14	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-34	91	9/11/2019	3.3	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-35	91	9/12/2019	1.9	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5	91	9/12/2019	31	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6	91	9/12/2019	16	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-7	91	9/10/2019	50	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-8	91	9/10/2019	30	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	91	9/16/2019	19	No	83	1.205	n/a	0.0002723	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-10	24	9/17/2019	3.6	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	24	9/16/2019	3.1	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	24	9/11/2019	23	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	24	9/12/2019	1	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
<b>Chloride (mg/L)</b>	<b>GWC-14</b>	<b>24</b>	<b>9/12/2019</b>	<b>190</b>	<b>Yes</b>	<b>82</b>	<b>1.22</b>	<b>n/a</b>	<b>0.0002781</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride (mg/L)	GWC-15	24	9/17/2019	2.8	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	24	9/11/2019	1.6	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	24	9/11/2019	1.1	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-18	24	9/11/2019	1.5	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-19	24	9/12/2019	1.3	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	24	9/11/2019	1.9	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	24	9/11/2019	2.9	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	24	9/10/2019	1.6	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2

# Interwell Prediction Limit All Results

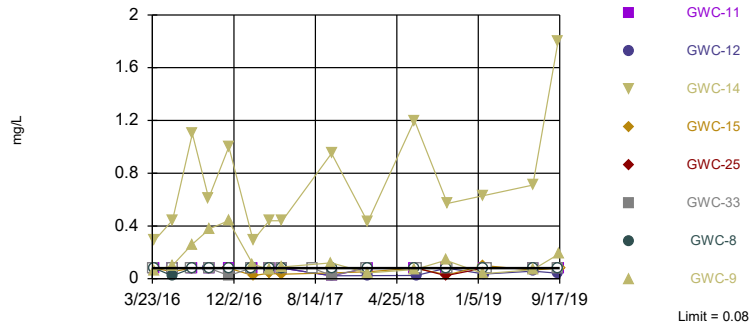
Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 11/14/2019, 4:57 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWC-23	24	9/12/2019	1.9	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-24	24	9/11/2019	4.2	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-25	24	9/11/2019	7.9	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-26	24	9/12/2019	2.3	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-27	24	9/12/2019	0.88	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-30	24	9/10/2019	1.3	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-31	24	6/26/2019	1.5	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-32	24	9/12/2019	0.99	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-33	24	9/12/2019	2.1	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-34	24	9/11/2019	1.1	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-35	24	9/12/2019	3.2	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5	24	9/12/2019	13	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6	24	9/12/2019	7.7	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-7	24	9/10/2019	15	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-8	24	9/10/2019	6	No	82	1.22	n/a	0.0002781	NP Inter (normality) 1 of 2
<b>Chloride (mg/L)</b>	<b>GWC-9</b>	<b>24</b>	<b>9/16/2019</b>	<b>29</b>	<b>Yes</b>	<b>82</b>	<b>1.22</b>	<b>n/a</b>	<b>0.0002781</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride (mg/L)	GWC-10	3.2	9/17/2019	0.29	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-11	3.2	9/16/2019	0.12	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-12	3.2	9/11/2019	0.17	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-13	3.2	9/12/2019	0.065	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-14	3.2	9/12/2019	0.1ND	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-15	3.2	9/17/2019	0.071	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16	3.2	9/11/2019	0.038	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	3.2	9/11/2019	0.043	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-18	3.2	9/11/2019	0.036	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-19	3.2	9/12/2019	0.031	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-20	3.2	9/11/2019	0.039	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-21	3.2	9/11/2019	0.1ND	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-22	3.2	9/10/2019	0.1ND	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-23	3.2	9/12/2019	0.033	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-24	3.2	9/11/2019	0.1ND	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-25	3.2	9/11/2019	0.039	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-26	3.2	9/12/2019	0.1ND	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-27	3.2	9/12/2019	0.18	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-30	3.2	9/10/2019	0.1	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-31	3.2	6/26/2019	1.3	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-32	3.2	9/12/2019	2.8	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-33	3.2	9/12/2019	2.4	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-34	3.2	9/11/2019	0.15	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-35	3.2	9/12/2019	0.038	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-5	3.2	9/12/2019	0.078	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-6	3.2	9/12/2019	0.076	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-7	3.2	9/10/2019	0.28	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-8	3.2	9/10/2019	0.1	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-9	3.2	9/16/2019	0.062	No	82	43.9	n/a	0.0002781	NP Inter (normality) 1 of 2

Exceeds Limit: GWC-14, GWC-9

### Boron

Interwell Non-parametric



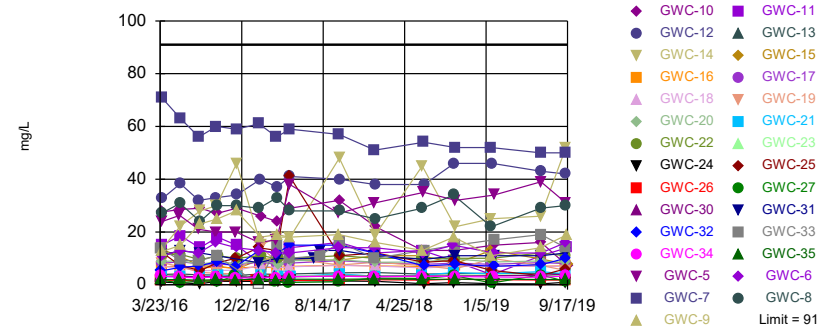
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 83 background values. 97.59% NDs. Annual per-constituent alpha = 0.01567. Individual comparison alpha = 0.0002723 (1 of 2). Comparing 8 points to limit. Assumes 21 future values.

Prediction Limit Analysis Run 11/14/2019 4:51 PM View: CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Calcium

Interwell Non-parametric



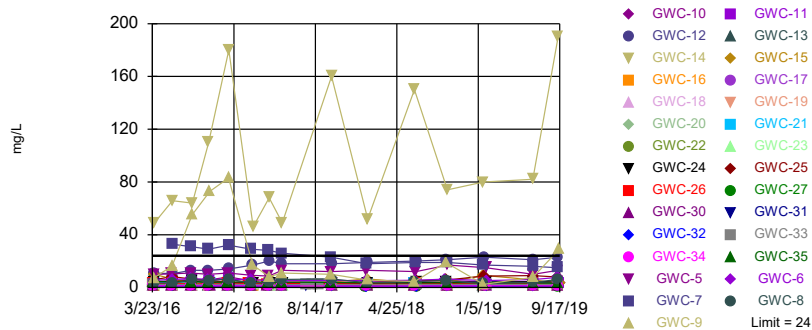
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 83 background values. 1.205% NDs. Annual per-constituent alpha = 0.01567. Individual comparison alpha = 0.0002723 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 11/14/2019 4:51 PM View: CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit: GWC-14, GWC-9

### Chloride

Interwell Non-parametric



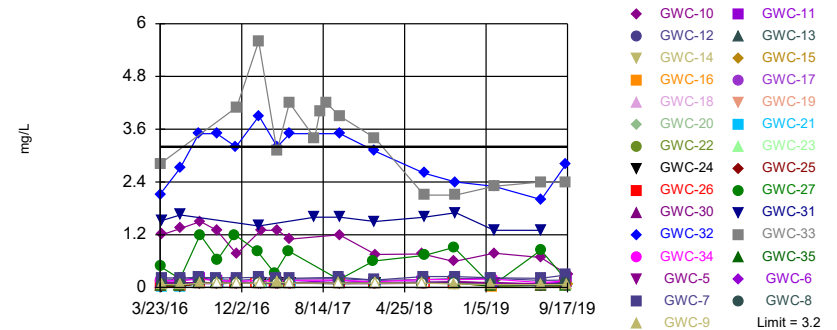
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 82 background values. 1.22% NDs. Annual per-constituent alpha = 0.016. Individual comparison alpha = 0.0002781 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 11/14/2019 4:51 PM View: CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Fluoride

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 82 background values. 43.9% NDs. Annual per-constituent alpha = 0.016. Individual comparison alpha = 0.0002781 (1 of 2). Comparing 29 points to limit.

Prediction Limit Analysis Run 11/14/2019 4:51 PM View: CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-4 (bg)	GWA-2 (bg)	GWC-33	GWA-1 (bg)	GWC-25	GWC-11	GWC-8
3/22/2016	<0.08	<0.08							
3/23/2016			<0.08	<0.08	<0.08	<0.08			
3/28/2016							<0.08		
3/29/2016								<0.08	<0.08
3/30/2016									
3/31/2016									
5/19/2016	<0.08		<0.08						
5/20/2016						<0.08			
5/23/2016		<0.08							
5/24/2016				<0.08	<0.08				0.022 (J)
5/25/2016							<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					<0.08
7/27/2016							<0.08		
9/14/2016			<0.08						
9/15/2016		<0.08				<0.08			
9/16/2016				<0.08	<0.08				
9/19/2016							<0.08	<0.08	<0.08
9/20/2016									
11/9/2016		<0.08							
11/10/2016			<0.08	<0.08					
11/11/2016						<0.08			
11/15/2016							<0.08		
11/16/2016								<0.08	<0.08
11/17/2016					0.023 (J)				
1/17/2017	<0.08	<0.08	<0.08						
1/19/2017				<0.08		<0.08			
1/24/2017							<0.08		
1/25/2017					<0.08				
1/26/2017									<0.08
1/31/2017								<0.08	
2/1/2017									
3/16/2017		<0.08	<0.08			<0.08			
3/17/2017				<0.08					
3/23/2017					<0.08		<0.08	<0.08	<0.08
4/27/2017	<0.08	<0.08	<0.08						
4/28/2017				<0.08		<0.08			
5/1/2017					<0.08				
5/2/2017							<0.08	<0.08	
5/3/2017									<0.08
7/18/2017	0.027 (J)								
8/1/2017	<0.08								
8/4/2017					<0.08				
10/3/2017	<0.08	<0.08	<0.08	<0.08					
10/4/2017						<0.08		0.022 (J)	
10/5/2017					0.025 (J)		<0.08		<0.08
1/19/2018	<0.08	<0.08		<0.08		<0.08			
1/22/2018			<0.08						
1/23/2018					<0.08				
1/24/2018							<0.08		<0.08



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-9	GWC-14	GWC-15	GWA-3 (bg)
3/22/2016					
3/23/2016					
3/28/2016					
3/29/2016	<0.08	0.0635 (J)			
3/30/2016			0.291	0.0787 (J)	
3/31/2016					<0.08
5/19/2016					
5/20/2016					
5/23/2016					
5/24/2016		0.0981 (J)			
5/25/2016	<0.08		0.443	0.0536 (J)	<0.08
7/21/2016					
7/22/2016	<0.08				
7/25/2016		0.26			
7/26/2016			1.1	<0.08	
7/27/2016					<0.08
9/14/2016					
9/15/2016	<0.08		0.61		
9/16/2016					
9/19/2016		0.38			
9/20/2016				<0.08	
11/9/2016					
11/10/2016					
11/11/2016					
11/15/2016					
11/16/2016	<0.08	0.44			
11/17/2016			1	<0.08	
1/17/2017					
1/19/2017					
1/24/2017					
1/25/2017					
1/26/2017					
1/31/2017	<0.08	0.11			
2/1/2017			0.29	0.023 (J)	
3/16/2017					
3/17/2017					
3/23/2017	<0.08	0.071	0.44	0.042 (J)	
4/27/2017					
4/28/2017					
5/1/2017					
5/2/2017		0.089			
5/3/2017	<0.08		0.44	0.034 (J)	
7/18/2017					
8/1/2017					<0.08
8/4/2017					
10/3/2017		0.12			<0.08
10/4/2017	0.022 (J)		0.95	0.044 (J)	
10/5/2017					
1/19/2018					
1/22/2018					
1/23/2018					
1/24/2018	0.023 (J)	0.044 (J)			

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-9	GWC-14	GWC-15	GWA-3 (bg)
1/25/2018			0.43	0.052	
6/19/2018					
6/20/2018			1.2	<0.08	<0.08
6/21/2018		0.07			
6/26/2018	0.024 (J)				
6/27/2018					
9/25/2018					
9/26/2018		0.14			
9/27/2018					
9/28/2018	<0.08				
10/1/2018			0.57	0.03 (J)	
10/2/2018					
1/17/2019					
1/18/2019					<0.08
1/21/2019					
1/22/2019		0.038 (J)	0.63	0.1	
1/24/2019					
1/25/2019	0.036 (J)				
1/30/2019					
6/24/2019					
6/25/2019		0.068 (J)	0.71	0.066 (J)	<0.08
6/26/2019	0.057 (J)				
9/9/2019					
9/10/2019					
9/11/2019	0.042 (J)				<0.08
9/12/2019			1.8		
9/16/2019		0.19			
9/17/2019				<0.08	

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-27	GWC-32	GWC-33	GWA-4 (bg)	GWA-2 (bg)	GWC-30
3/22/2016	4.65	2.86							
3/23/2016			0.893	1.73	5.18	13.8	24.2	3.09	3.03
3/24/2016									
3/28/2016									
3/29/2016									
3/30/2016									
3/31/2016									
5/19/2016	5.08						33.6		
5/20/2016			0.784						3.37
5/23/2016		2.81							
5/24/2016				0.745	6.58	9.38		3.51	
5/25/2016									
5/26/2016									
7/21/2016	4.7		0.6				30		2.9
7/22/2016					7.1	9			
7/25/2016		2.4							
7/26/2016				1.4				3.1	
7/27/2016									
9/14/2016							31		
9/15/2016		2.5	0.7						
9/16/2016					8.7	11		3.6	
9/19/2016				1.2					
9/20/2016									3.2
11/9/2016		2.6							
11/10/2016							27	3.7	
11/11/2016			0.59	3.3					
11/14/2016									2.8
11/15/2016					6.9				
11/16/2016									
11/17/2016									
11/18/2016									
1/17/2017	3.7	2.4					26		
1/19/2017			0.59					4.2	
1/20/2017				2.2					
1/24/2017									3.1
1/25/2017						<0.25			
1/26/2017					13				
1/31/2017									
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017		2.7	0.72	1			27		
3/17/2017								3.4	2.9
3/22/2017									
3/23/2017						15			
3/24/2017					12				
3/28/2017									
3/29/2017									
4/27/2017	3.9	2.4					27		
4/28/2017			0.72	0.88				3.9	
5/1/2017						10			3
5/2/2017					15				



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-34	GWC-35	GWC-6	GWC-5	GWC-25	GWC-9	GWC-8	GWC-11
3/22/2016									
3/23/2016									
3/24/2016	1.72	3.27	1.97						
3/28/2016				10.8	23.9	12.3			
3/29/2016							12.6	27.2	15
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			14.9	30.8	
5/25/2016	1.68					7.2			18.5
5/26/2016									
7/21/2016		2.6	1.7	12	21				
7/22/2016									
7/25/2016							23		14
7/26/2016	1.4							24	
7/27/2016						5.4			
9/14/2016									
9/15/2016		2.9	1.9	16	20				
9/16/2016									
9/19/2016	1.5					8.4	25	30	18
9/20/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016	1.8								
11/15/2016		2.5	1.8		20	10			
11/16/2016				14			28	30	15
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							18		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	19	33	9.3
3/24/2017									
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	1.6	3.1							
5/2/2017			2.1	12	38	41	18		14





# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-12	GWC-7	GWC-23	GWC-14	GWC-10	GWC-15	GWC-16	GWC-24
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	3.91	32.6	70.8	3.32					
3/30/2016					13.8	27.6	13.3	6.72	1.01
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016			63.2						
5/25/2016	4.06	38.3		3.4	22.2	28.5	10.6	7.09	0.69
5/26/2016									
7/21/2016									
7/22/2016		32	56						
7/25/2016									
7/26/2016	3.7				28		7.2		
7/27/2016				2.9		29		6.4	0.4
9/14/2016									
9/15/2016	3.7	33	60		30				
9/16/2016						27		6.7	1.3
9/19/2016									
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		34	59						
11/17/2016	3.5				46	29	6.1	6.3	
11/18/2016				2.9					1.3
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017			61						
1/31/2017	4.1	40							
2/1/2017					15	26	9.6	6.8	
2/2/2017									
2/3/2017				3.3					1.2
3/16/2017									
3/17/2017									
3/22/2017			56						
3/23/2017	3.9	37			18		9.9		
3/24/2017						24		6.3	
3/28/2017				3.1					
3/29/2017									1.3
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			59						

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-12	GWC-7	GWC-23	GWC-14	GWC-10	GWC-15	GWC-16	GWC-24
5/3/2017	4.1	41			18	29	9.4	6.9	
5/4/2017				3.3					1.6
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
10/3/2017			57						
10/4/2017		40			48	32	9.3		
10/5/2017	4.5			3.6				7.4	1.4
10/6/2017									
1/19/2018									
1/22/2018									
1/23/2018			51						
1/24/2018		38							
1/25/2018	4.6			3.3	19	22	11	7.1	1.3
1/26/2018									
6/19/2018									
6/20/2018	4			3.4	45		11	6.9	
6/21/2018						13			
6/25/2018			54						
6/26/2018		38							
6/27/2018									0.38
9/25/2018									
9/26/2018									
9/27/2018						13			
9/28/2018		46							0.81
10/1/2018				3.6	22		8	7	
10/2/2018	4.2		52						
10/3/2018									
1/17/2019									
1/18/2019									
1/21/2019			52						
1/22/2019	4.4				25		13		
1/24/2019									
1/25/2019		46		3.7				7	
1/28/2019									
1/30/2019									
1/31/2019						15			0.39
6/24/2019									
6/25/2019	4.3		50		26		9.8	7	
6/26/2019		43		3.6		16			0.34 (J)
6/27/2019									
9/9/2019									
9/10/2019			50						
9/11/2019		42						7.1	0.9
9/12/2019	4.2			3.6	52				
9/16/2019									
9/17/2019						7.2	7.7		

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-21	GWC-31	GWC-20	GWC-18	GWC-19	GWA-3 (bg)	GWC-22
3/22/2016								
3/23/2016								
3/24/2016								
3/28/2016								
3/29/2016								
3/30/2016	8.15	2.98	11.3	8.78	6.88	8.32		
3/31/2016							39.6	11.5
5/19/2016								
5/20/2016								
5/23/2016								
5/24/2016								
5/25/2016	8.68		12.9				28.3	
5/26/2016		3.16		9.13	6.42	6.78		11.5
7/21/2016								
7/22/2016								
7/25/2016				7.7	5.3	4.7		
7/26/2016		2.9						9.5
7/27/2016	7.9		12				22	
9/14/2016								
9/15/2016								
9/16/2016								
9/19/2016	7.8				5.4	4.3		
9/20/2016		3.6		8.9				11
11/9/2016								
11/10/2016								
11/11/2016								
11/14/2016								
11/15/2016								
11/16/2016								
11/17/2016	7.5	2.8		7.9	5.5	4.1		10
11/18/2016								
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	8.7				7.3			
2/2/2017		3.3		8.9		14		
2/3/2017								11
3/16/2017								
3/17/2017								
3/22/2017								
3/23/2017			10					
3/24/2017	7.5				6.4	8.7		
3/28/2017		3.2		7.9				9.8
3/29/2017								
4/27/2017								
4/28/2017								
5/1/2017								
5/2/2017			9.8					



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-27	GWC-30	GWC-32	GWC-33	GWA-4 (bg)	GWA-2 (bg)
3/22/2016	1.5096	1.3716							
3/23/2016			1.8057	1.0825	1.3598	1.0533	2.2604	9.041	2.5102
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				1.08		1.1			4.52
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				1.1					4
7/27/2016									
9/14/2016								17	
9/15/2016		1.3	1.8						
9/16/2016						1.1			4.1
9/19/2016				1					
9/20/2016					1.3				
11/9/2016		1.4							
11/10/2016								23	4.6
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	0.96 (J)					4.7
5/1/2017					1.3		2.1		
5/2/2017						0.99 (J)			



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-34	GWC-35	GWC-5	GWC-6	GWC-25	GWC-11	GWC-8	GWC-13
3/22/2016									
3/23/2016									
3/24/2016	2.8217	1.2259	4.4998						
3/28/2016				9.818	5.312	5.992			
3/29/2016							3.4214	3.5914	1.3057
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016		1.19	4.19	10.4					
5/24/2016					6.21			3.16	
5/25/2016	2.93						5.33		1.27
5/26/2016						8.14			
7/21/2016		1.3	4.4	11	6.6				
7/22/2016									
7/25/2016							5.8		
7/26/2016	3							5.9	1.4
7/27/2016						6.3			
9/14/2016									
9/15/2016		1.2	4	10	6.1				1.3
9/16/2016									
9/19/2016	2.9					5.1	5.2	5.4	
9/20/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016	2.8								
11/15/2016		1.2	4.2	11		3.9			
11/16/2016					6.2		6.7	6.2	
11/17/2016									1.2
11/18/2016									
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	9.2	5.8			3.6	
1/31/2017							2.1		1.2
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017	2.7								
3/17/2017									
3/22/2017		1.1	3.9	8.7	5.2				
3/23/2017						3.2	2	3.9	1.2
3/24/2017									
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	2.8	1.1							
5/2/2017			4	13	5.1	3.5	3.3		





# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-9	GWC-12	GWC-21	GWC-20	GWC-14	GWC-10	GWC-19	GWC-31
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	1.9463	7.395	10.931						
3/30/2016				3.9326	2.0074	49.11	3.7204	2.2278	1.9069
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016		16.4							
5/25/2016	1.96		10.5			65.8	3.89		1.89
5/26/2016				3.59	2			1.53	
7/21/2016									
7/22/2016			13						
7/25/2016		55			2.1			1.5	
7/26/2016				3.3		64			
7/27/2016	2.1						6.5		
9/14/2016									
9/15/2016			13			110			
9/16/2016							5.9		
9/19/2016		73						1.4	
9/20/2016	1.9			3.1	2				
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016		83	14						
11/17/2016				3	1.9	180	7.9	1.4	
11/18/2016	1.8								
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									1.9
1/26/2017									
1/31/2017		17	17						
2/1/2017						46	4.9		
2/2/2017					1.9			3.1	
2/3/2017	1.9								
3/16/2017									
3/17/2017									
3/22/2017									
3/23/2017		8.2	20			68			
3/24/2017							2.6	2.1	
3/28/2017	1.8			3.4	1.8				
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		11							

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-9	GWC-12	GWC-21	GWC-20	GWC-14	GWC-10	GWC-19	GWC-31
5/3/2017			18			49	3.9	1.8	
5/4/2017	1.8			3.4	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			18			160	3.9		
10/5/2017	1.8							1.6	
10/6/2017				3.2	1.8				1.7
1/19/2018									
1/22/2018									
1/23/2018									1.4
1/24/2018		5.6	19						
1/25/2018	1.6					52	4.2	1.7	
1/26/2018				3.3	1.6				
6/19/2018									
6/20/2018	1.9			3.5		150			
6/21/2018		4.5			1.9		4.6	1.6	
6/25/2018									
6/26/2018			20						
6/27/2018									1.5
9/25/2018									
9/26/2018		19							
9/27/2018				3.1	1.8		5.4	1.3	
9/28/2018			21						
10/1/2018	1.9					74			
10/2/2018									
10/3/2018									1.7
1/17/2019									
1/18/2019									
1/21/2019									
1/22/2019		2.3				80			
1/24/2019				4.1					
1/25/2019	2		23						
1/28/2019					2			2.2	
1/30/2019									
1/31/2019							4		1.3
6/24/2019									
6/25/2019		7.7		3.5	1.9	82			
6/26/2019	2		21				4.2	1.5	1.5
6/27/2019									
9/9/2019									
9/10/2019									
9/11/2019			23	2.9	1.9				
9/12/2019	1.9					190		1.3	
9/16/2019		29							
9/17/2019							3.6		



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-15	GWC-16	GWC-17	GWC-24	GWC-22	GWA-3 (bg)	GWC-7
5/3/2017	1.6	5.1	1.3	1.2		1.5		
5/4/2017					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		1.1				
10/5/2017	1.5		1.3		3.3	1.5		
10/6/2017								
1/19/2018								
1/22/2018								
1/23/2018								18
1/24/2018								
1/25/2018	1.6	6.5	1.2	0.99 (J)	3.1	1.3		
1/26/2018								
6/19/2018								
6/20/2018		3.4	1.3			1.5	12	
6/21/2018	1.5							
6/25/2018								19
6/26/2018				1.1				
6/27/2018					3.8			
9/25/2018								
9/26/2018								
9/27/2018								
9/28/2018	1.6				3.8			
10/1/2018		4.3	1.4			1.6		
10/2/2018				1.2				19
10/3/2018								
1/17/2019								
1/18/2019							19	
1/21/2019								17
1/22/2019		9.1						
1/24/2019				1.2		1.6		
1/25/2019			1.5					
1/28/2019	1.7							
1/30/2019								
1/31/2019					4.1			
6/24/2019								
6/25/2019		5.8	1.5	1.2		1.7	<1	16
6/26/2019					4.4			
6/27/2019	1.6							
9/9/2019								
9/10/2019						1.6		15
9/11/2019	1.5		1.6	1.1	4.2		22	
9/12/2019								
9/16/2019								
9/17/2019		2.8						

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-27	GWC-30	GWC-32	GWC-33	GWA-4 (bg)	GWA-2 (bg)
3/22/2016	2.2163	1.4375							
3/23/2016			0.019 (J)	0.4759	0.0999 (J)	2.1209	2.8158	0.0713 (J)	0.0276 (J)
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				0.198 (J)		2.71			0.023 (J)
5/25/2016									
5/26/2016									
7/21/2016	3.2		<0.1		0.11 (J)			<0.1	
7/22/2016						3.5			
7/25/2016		1.7							
7/26/2016				1.2					<0.1
7/27/2016									
9/14/2016								<0.1	
9/15/2016		1.6	<0.1						
9/16/2016						3.5			<0.1
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	2.6	1.6						<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	0.32				<0.1	
3/17/2017					0.084 (J)				<0.1
3/22/2017									
3/23/2017							3.1		
3/24/2017						3.2			
3/28/2017									
3/29/2017									
4/27/2017	2.5	1.4						<0.1	
4/28/2017			<0.1	0.83					<0.1
5/1/2017					0.092 (J)		4.2		
5/2/2017						3.5			



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-34	GWC-35	GWC-5	GWC-6	GWC-25	GWC-9	GWC-8	GWC-7
3/22/2016									
3/23/2016									
3/24/2016	0.0318 (J)	0.1653 (J)	0.0396 (J)						
3/28/2016				0.1116 (J)	0.0752 (J)	0.0542 (J)			
3/29/2016							0.0671 (J)	0.0698 (J)	0.2179 (J)
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016		0.155 (J)	0.0343 (J)	0.1022 (J)					
5/24/2016					0.081 (J)		0.06 (J)	0.072 (J)	0.216 (J)
5/25/2016	0.0282 (J)								
5/26/2016						0.034 (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	<0.1							0.092 (J)	
7/27/2016						<0.1			
9/14/2016									
9/15/2016		0.16 (J)	<0.1	0.084 (J)	0.084 (J)				0.22
9/16/2016									
9/19/2016	<0.1					<0.1	<0.1	<0.1	
9/20/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016	<0.1								
11/15/2016		0.14 (J)	<0.1	<0.1		<0.1			
11/16/2016					<0.1		<0.1	<0.1	0.22
11/17/2016									
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			<0.1	0.23
1/31/2017							<0.1		
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017	<0.1								
3/17/2017									
3/22/2017		0.14 (J)	<0.1	<0.1	<0.1				0.2
3/23/2017						<0.1	0.12 (J)	<0.1	
3/24/2017									
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	<0.1	0.16 (J)							
5/2/2017			<0.1	0.1 (J)	<0.1	<0.1	<0.1		0.21







# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-12	GWC-23	GWC-13	GWC-18	GWC-15	GWC-21	GWC-17	GWC-20
5/3/2017		0.19 (J)		0.098 (J)	<0.1	<0.1		<0.1	
5/4/2017			<0.1				<0.1		<0.1
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017									
10/4/2017	0.16 (J)	0.2				<0.1		<0.1	
10/5/2017			<0.1	0.1 (J)	<0.1				
10/6/2017							<0.1		<0.1
1/19/2018									
1/22/2018									
1/23/2018									
1/24/2018	0.11 (J)	0.16 (J)							
1/25/2018			<0.1	0.1 (J)	<0.1	<0.1		<0.1	
1/26/2018							<0.1		<0.1
6/19/2018									
6/20/2018	0.13 (J)		<0.1	0.11 (J)		0.093 (J)	<0.1		
6/21/2018					<0.1				<0.1
6/25/2018									
6/26/2018		0.18 (J)						<0.1	
6/27/2018									
9/25/2018									
9/26/2018									
9/27/2018	0.12 (J)						<0.1		<0.1
9/28/2018		0.2			<0.1				
10/1/2018			<0.1			0.1 (J)			
10/2/2018				0.13 (J)				<0.1	
10/3/2018									
1/17/2019									
1/18/2019									
1/21/2019									
1/22/2019				0.1 (J)		0.071 (J)			
1/24/2019	0.076 (J)						<0.1	<0.1	
1/25/2019		0.21	<0.1						
1/28/2019					<0.1				<0.1
1/30/2019									
1/31/2019									
6/24/2019									
6/25/2019				0.084 (J)		0.068 (J)	0.032 (J)	0.051 (J)	0.049 (J)
6/26/2019	0.096 (J)	0.16 (J)	0.042 (J)						
6/27/2019					0.046 (J)				
9/9/2019									
9/10/2019									
9/11/2019		0.17			0.036 (J)		<0.1	0.043 (J)	0.039 (J)
9/12/2019			0.033 (J)	0.065 (J)					
9/16/2019	0.12 (J)								
9/17/2019						0.071 (J)			



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/14/2019 4:57 PM View: CCR Interwell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Date	GWC-14	GWC-19	GWC-31	GWC-24	GWC-16	GWC-10	GWA-3 (bg)	GWC-22
5/3/2017	<0.1	<0.1			<0.1	1.1		<0.1
5/4/2017				<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					1.2		
10/5/2017		<0.1		<0.1	<0.1			<0.1
10/6/2017			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	0.75		<0.1
1/26/2018								
6/19/2018								
6/20/2018	<0.1				<0.1		<0.1	<0.1
6/21/2018		<0.1				0.76		
6/25/2018								
6/26/2018								
6/27/2018			1.6	<0.1				
9/25/2018								
9/26/2018								
9/27/2018		<0.1				0.59		
9/28/2018				<0.1				
10/1/2018	0.083 (J)				<0.1			<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	0.057 (J)							
1/24/2019								<0.1
1/25/2019					0.027 (J)			
1/28/2019		<0.1						
1/30/2019								
1/31/2019			1.3	<0.1		0.78		
6/24/2019								
6/25/2019	0.054 (J)				0.052 (J)		0.03 (J)	0.052 (J)
6/26/2019		0.046 (J)	1.3	0.04 (J)		0.68		
6/27/2019								
9/9/2019								
9/10/2019								<0.1
9/11/2019				<0.1	0.038 (J)		0.033 (J)	
9/12/2019	<0.1	0.031 (J)						
9/16/2019								
9/17/2019						0.29		

# Intrawell Prediction Limit Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 11/14/2019, 5:08 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	GWC-10	7.052	5.712	9/17/2019	5.55	Yes	8	0	No	0.0001297	Param Intra 1 of 3
Sulfate (mg/L)	GWC-12	25	n/a	9/11/2019	26	Yes	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-5	28.38	n/a	9/12/2019	34	Yes	9	0	No	0.0002595	Param Intra 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 11/14/2019, 5:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (S.U.)	GWA-1	5.89	4.924	9/9/2019	5.37	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWA-2	6.032	5.384	9/10/2019	5.63	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWA-28	6.819	5.59	9/10/2019	5.79	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWA-29	6.445	5.85	9/10/2019	5.94	No	8	0	n/a	0.01182	NP Intra (normality) 1 of 3
pH (S.U.)	GWA-4	6.737	5.889	9/10/2019	6.18	No	8	0	No	0.0001297	Param Intra 1 of 3
<b>pH (S.U.)</b>	<b>GWC-10</b>	<b>7.052</b>	<b>5.712</b>	<b>9/17/2019</b>	<b>5.55</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.0001297</b>	<b>Param Intra 1 of 3</b>
pH (S.U.)	GWC-11	6.62	5.665	9/16/2019	6.07	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-12	8.157	6.211	9/11/2019	7.47	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-13	7.864	5.917	9/12/2019	6.73	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-14	6.434	4.646	9/12/2019	4.92	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-15	6.805	6.368	9/17/2019	6.54	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-16	6.446	5.744	9/11/2019	6.22	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-17	6.439	5.99	9/11/2019	6.39	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-18	6.184	5.79	9/11/2019	6.02	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-19	6.378	5.662	9/12/2019	5.92	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-20	7.121	6.08	9/11/2019	6.27	No	8	0	n/a	0.01182	NP Intra (normality) 1 of 3
pH (S.U.)	GWC-21	6.639	4.842	9/11/2019	5.71	No	9	0	ln(x)	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-22	6.93	6.307	9/10/2019	6.44	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-23	7.694	4.5	9/12/2019	5.93	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-24	7.997	4.166	9/11/2019	5.21	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-25	7.499	4.944	9/11/2019	5.99	No	11	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-26	6.074	5.364	9/12/2019	5.63	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-27	6.049	5.176	9/12/2019	5.36	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-30	6.78	5.9	9/10/2019	6.63	No	10	0	n/a	0.00688	NP Intra (normality) 1 of 3
pH (S.U.)	GWC-31	6.538	5.676	9/11/2019	6.34	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-32	6.455	5.918	9/12/2019	6.08	No	8	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-33	7.046	5.743	9/12/2019	6.5	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-34	6.666	5.244	9/11/2019	5.92	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-35	6.327	4.97	9/12/2019	5.68	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-5	7.504	5.579	9/12/2019	6.34	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-6	6.642	5.542	9/12/2019	6	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-7	6.539	6.191	9/10/2019	6.3	No	9	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-8	6.659	5.667	9/10/2019	5.9	No	10	0	No	0.0001297	Param Intra 1 of 3
pH (S.U.)	GWC-9	6.468	5.402	9/16/2019	5.69	No	8	0	No	0.0001297	Param Intra 1 of 3
Sulfate (mg/L)	GWA-1	1	n/a	9/9/2019	1ND	No	9	100	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWA-2	2.432	n/a	9/10/2019	0.9	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWA-28	1.623	n/a	9/10/2019	1.3	No	9	11.11	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWA-29	14.38	n/a	9/10/2019	9.2	No	8	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWA-3	459.9	n/a	9/11/2019	43	No	4	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWA-4	15	n/a	9/10/2019	11	No	9	0	n/a	0.004675	NP Intra (normality) 1 of 3
Sulfate (mg/L)	GWC-10	54.19	n/a	9/17/2019	12	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-11	3.7	n/a	9/16/2019	1ND	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
<b>Sulfate (mg/L)</b>	<b>GWC-12</b>	<b>25</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>26</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>No</b>	<b>0.0002595</b>	<b>Param Intra 1 of 3</b>
Sulfate (mg/L)	GWC-13	3.019	n/a	9/12/2019	2.2	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-14	40.29	n/a	9/12/2019	22	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-15	2.311	n/a	9/17/2019	1.4	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-16	1	n/a	9/11/2019	0.6	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-17	1	n/a	9/11/2019	0.99	No	9	55.56	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-18	1	n/a	9/11/2019	0.7	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-19	10.99	n/a	9/12/2019	0.39	No	9	33.33	ln(x)	0.0002595	Param Intra 1 of 3

# Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 11/14/2019, 5:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	GWC-20	1.229	n/a	9/11/2019	1.1	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-21	1	n/a	9/11/2019	0.42	No	9	88.89	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-22	1	n/a	9/10/2019	1ND	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-23	1	n/a	9/12/2019	0.54	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-24	1.019	n/a	9/11/2019	0.59	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-25	37.52	n/a	9/11/2019	5.7	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-26	1	n/a	9/12/2019	1ND	No	9	77.78	n/a	0.004675	NP Intra (NDs) 1 of 3
Sulfate (mg/L)	GWC-27	4	n/a	9/12/2019	0.82	No	9	11.11	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-30	1.476	n/a	9/10/2019	1.3	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-31	30.01	n/a	6/26/2019	9.9	No	5	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-32	16.09	n/a	9/12/2019	9.7	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-33	51.84	n/a	9/12/2019	12	No	9	0	x^(1/3)	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-34	1.942	n/a	9/11/2019	1.6	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-35	3.045	n/a	9/12/2019	2.3	No	9	0	No	0.0002595	Param Intra 1 of 3
<b>Sulfate (mg/L)</b>	<b>GWC-5</b>	<b>28.38</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>34</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>No</b>	<b>0.0002595</b>	<b>Param Intra 1 of 3</b>
Sulfate (mg/L)	GWC-6	19.18	n/a	9/12/2019	14	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-7	96.86	n/a	9/10/2019	52	No	8	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-8	54.3	n/a	9/10/2019	14	No	9	0	No	0.0002595	Param Intra 1 of 3
Sulfate (mg/L)	GWC-9	46.04	n/a	9/16/2019	16	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-1	36.45	n/a	9/9/2019	16	No	9	44.44	sqrt(x)	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-2	78.63	n/a	9/10/2019	52	No	9	22.22	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-28	113.8	n/a	9/10/2019	86	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-29	134.7	n/a	9/10/2019	120	No	8	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-3	1139	n/a	9/11/2019	130	No	4	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-4	207.3	n/a	9/10/2019	190	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-10	279.8	n/a	9/17/2019	120	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-11	289.2	n/a	9/16/2019	190	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-12	259.8	n/a	9/11/2019	220	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-13	87.6	n/a	9/12/2019	73	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-14	619.1	n/a	9/12/2019	470	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-15	120.9	n/a	9/17/2019	75	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	157.4	n/a	9/11/2019	85	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-17	157.3	n/a	9/11/2019	92	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-18	117.1	n/a	9/11/2019	64	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-19	116.9	n/a	9/12/2019	87	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-20	126.6	n/a	9/11/2019	74	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-21	79.36	n/a	9/11/2019	16	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-22	126.6	n/a	9/10/2019	120	No	9	11.11	x^3	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-23	73.94	n/a	9/12/2019	58	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-24	45.46	n/a	9/11/2019	5ND	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-25	121.1	n/a	9/11/2019	53	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-26	84.21	n/a	9/12/2019	61	No	9	11.11	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-27	75.8	n/a	9/12/2019	50	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-30	90.38	n/a	9/10/2019	46	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-31	169.9	n/a	6/26/2019	110	No	5	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-32	139.5	n/a	9/12/2019	100	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-33	185.8	n/a	9/12/2019	110	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-34	98.43	n/a	9/11/2019	20	No	9	11.11	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-35	70.88	n/a	9/12/2019	51	No	9	11.11	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-5	231.8	n/a	9/12/2019	230	No	9	0	No	0.0002595	Param Intra 1 of 3

# Intrawell Prediction Limit All Results

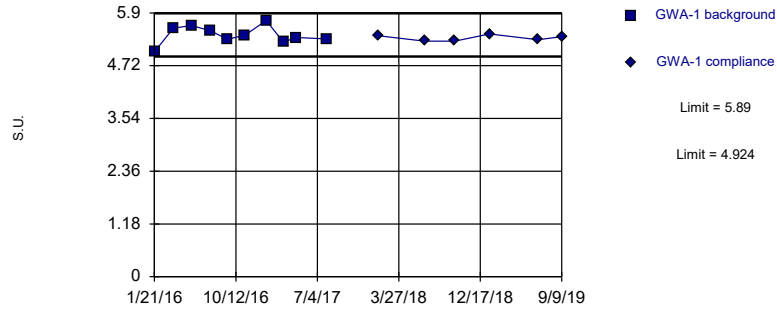
Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 11/14/2019, 5:08 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	GWC-6	171.4	n/a	9/12/2019	170	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-7	548.9	n/a	9/10/2019	380	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-8	271.5	n/a	9/10/2019	220	No	9	0	No	0.0002595	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-9	390.3	n/a	9/16/2019	190	No	9	0	No	0.0002595	Param Intra 1 of 3



Within Limits

### pH Intrawell Parametric

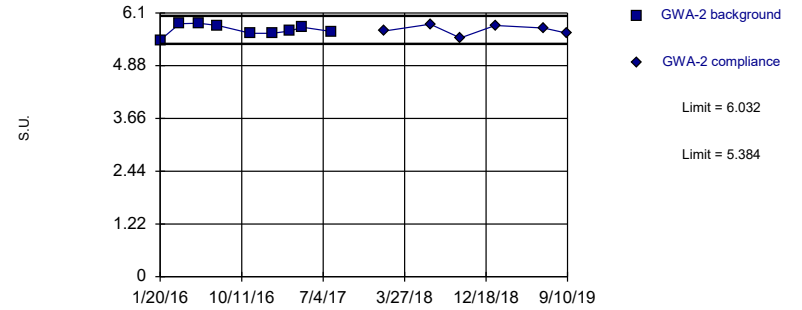


Background Data Summary: Mean=5.407, Std. Dev.=0.2025, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9795, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

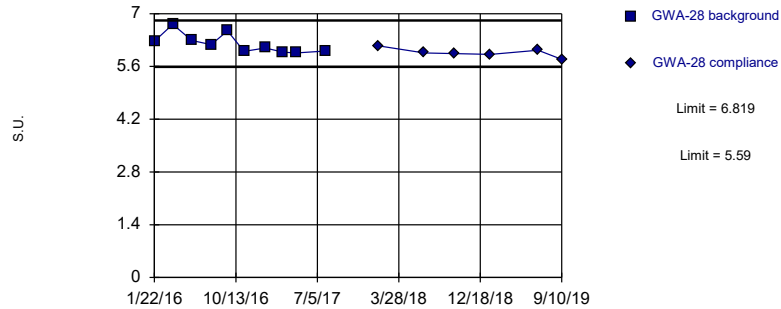


Background Data Summary: Mean=5.708, Std. Dev.=0.1266, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9321, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

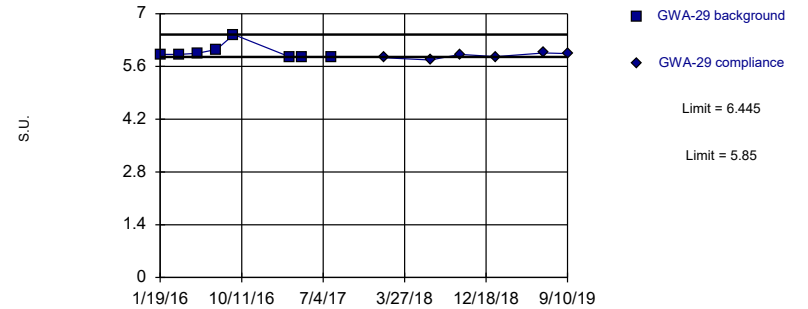


Background Data Summary: Mean=6.204, Std. Dev.=0.2576, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8673, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Non-parametric

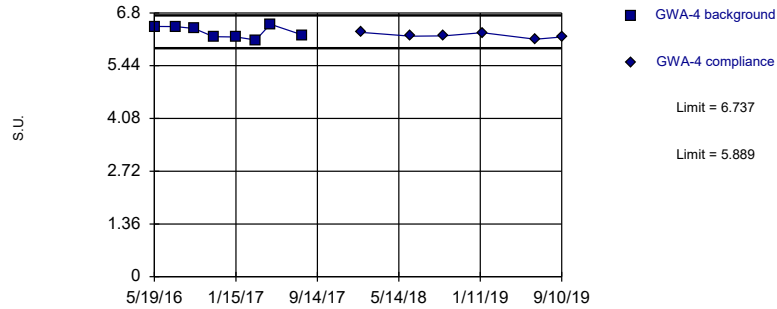


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

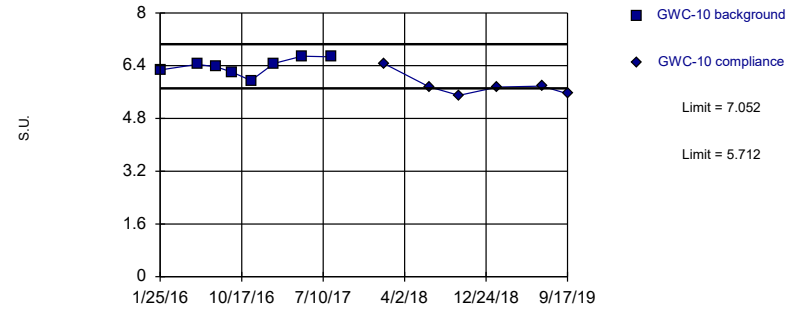


Background Data Summary: Mean=6.313, Std. Dev.=0.1551, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8952, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limits

pH  
Intrawell Parametric

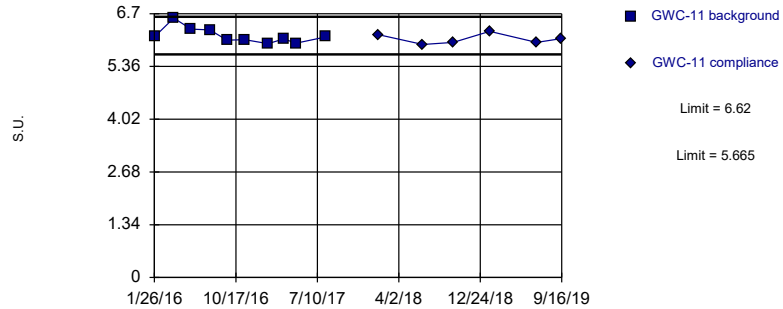


Background Data Summary: Mean=6.382, Std. Dev.=0.2451, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

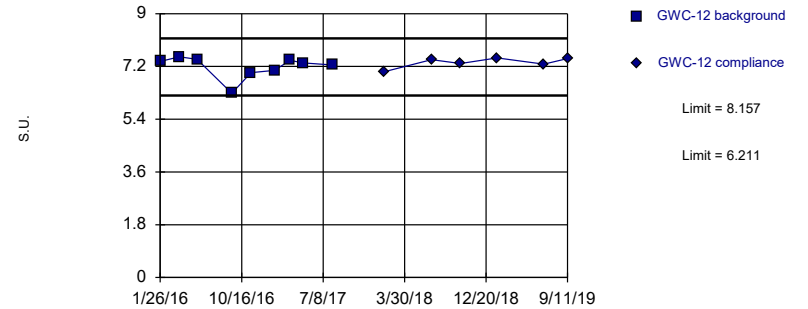


Background Data Summary: Mean=6.143, Std. Dev.=0.2, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8639, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

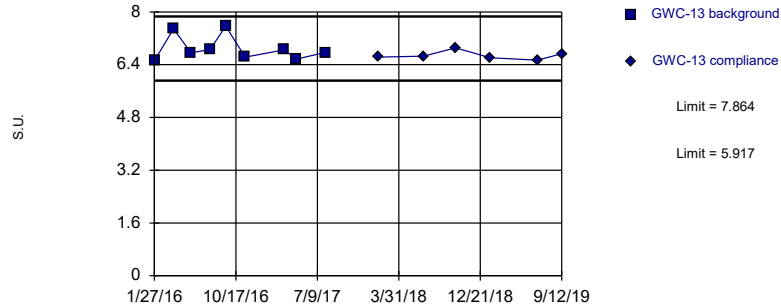


Background Data Summary: Mean=7.184, Std. Dev.=0.3803, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.796, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

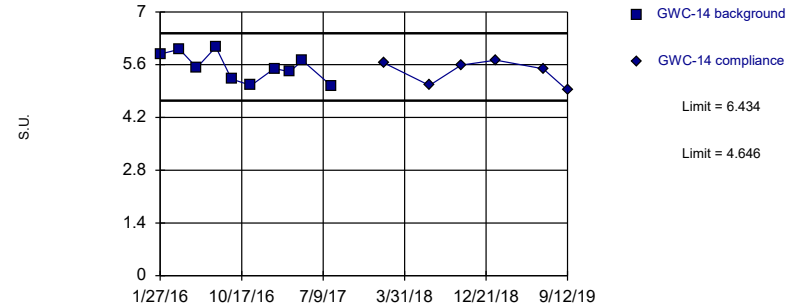


Background Data Summary: Mean=6.891, Std. Dev.=0.3804, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8096, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

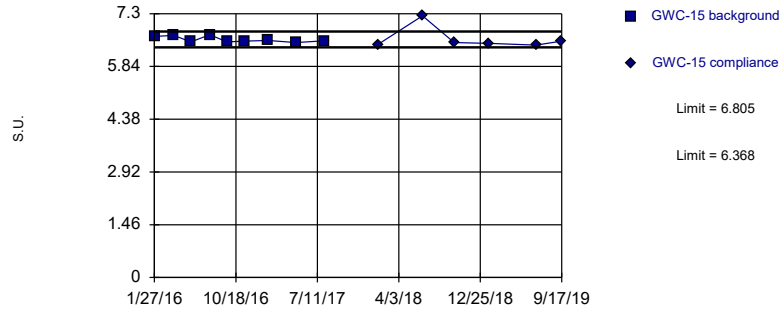


Background Data Summary: Mean=5.54, Std. Dev.=0.3747, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9394, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

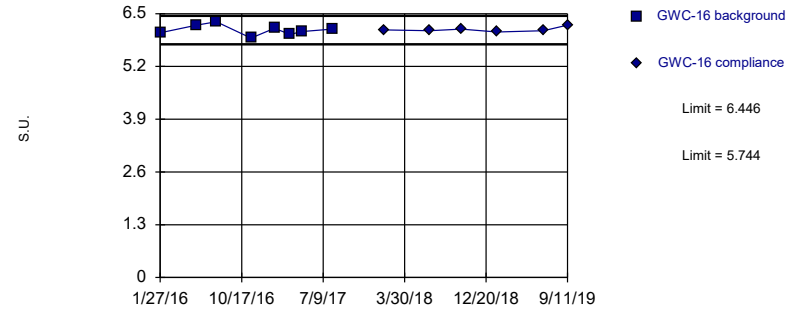


Background Data Summary: Mean=6.587, Std. Dev.=0.08535, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8279, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

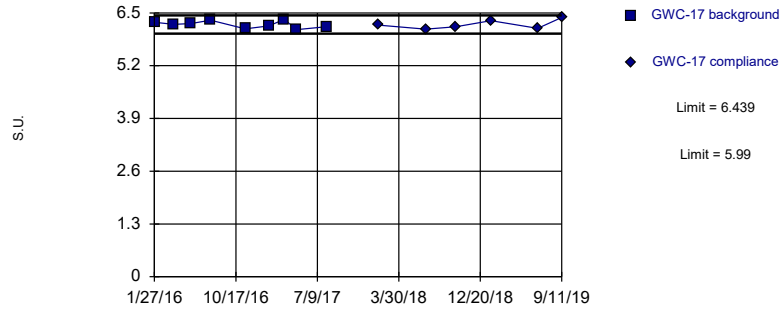


Background Data Summary: Mean=6.095, Std. Dev.=0.1285, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9916, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

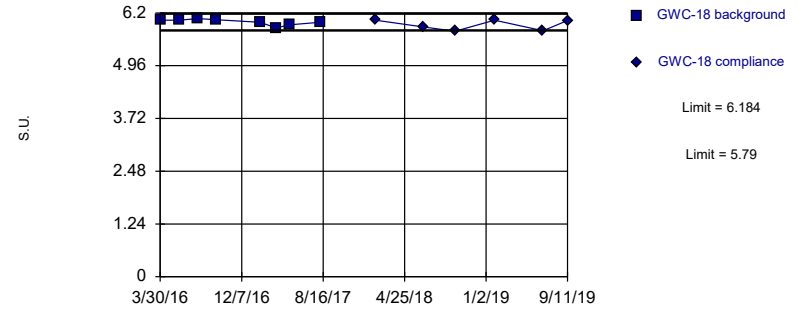


Background Data Summary: Mean=6.215, Std. Dev.=0.08769, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9614, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

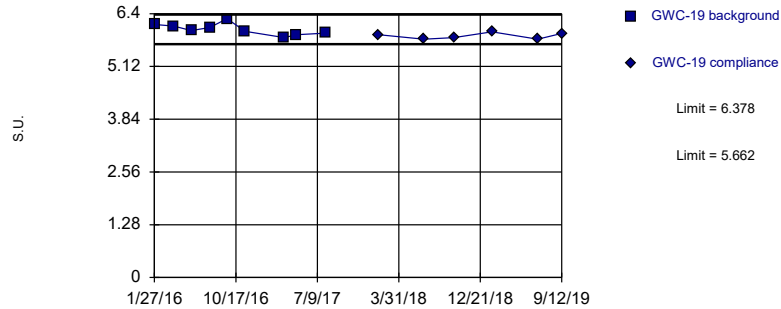


Background Data Summary: Mean=5.987, Std. Dev.=0.07194, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9006, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

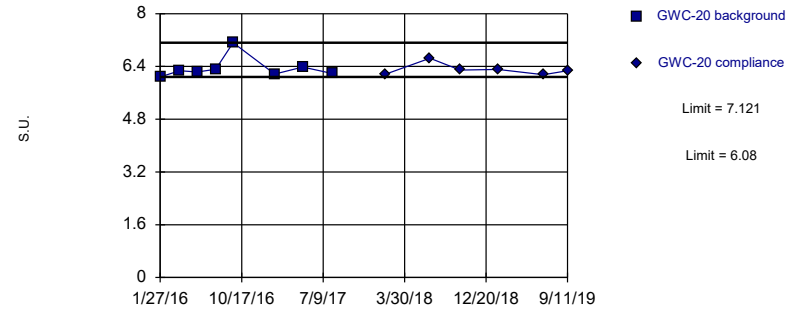


Background Data Summary: Mean=6.02, Std. Dev.=0.1401, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9811, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:58 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Non-parametric

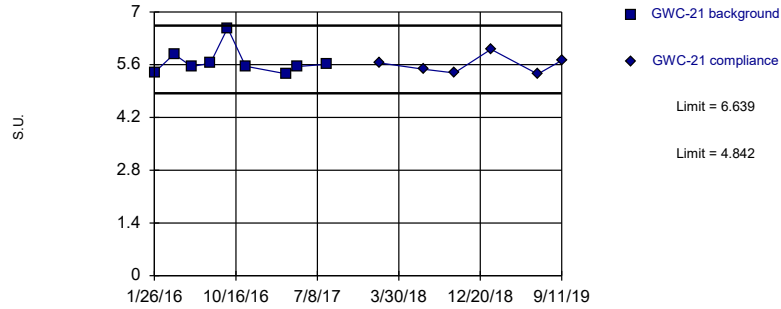


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

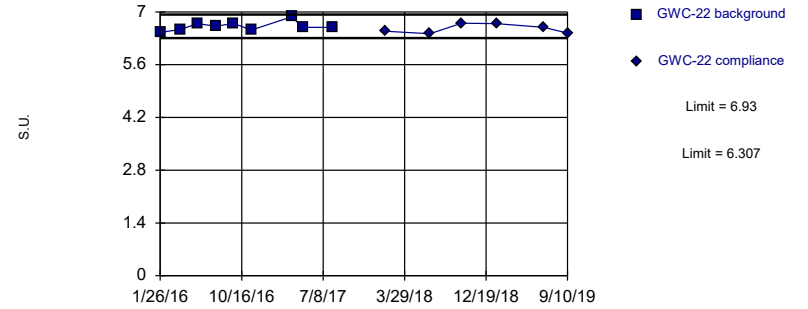


Background Data Summary (based on natural log transformation): Mean=1.735, Std. Dev.=0.06166, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7668, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

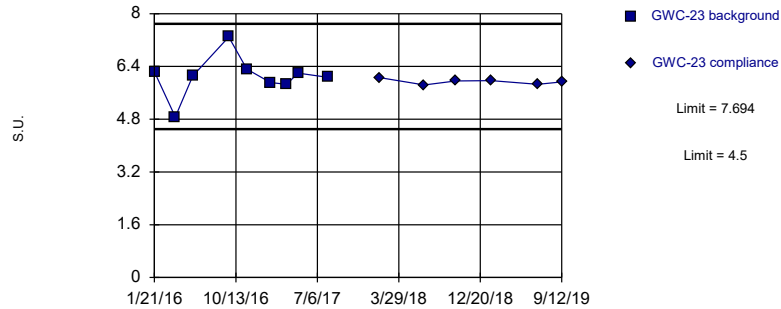


Background Data Summary: Mean=6.619, Std. Dev.=0.1218, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

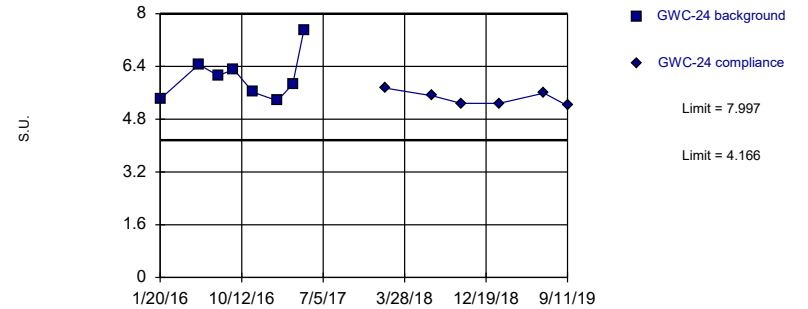


Background Data Summary: Mean=6.097, Std. Dev.=0.6239, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8793, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

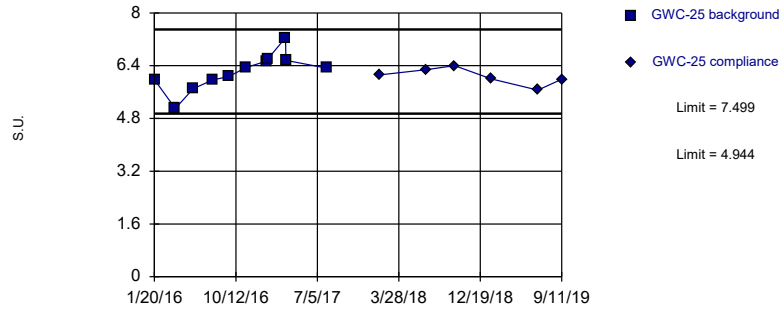


Background Data Summary: Mean=6.081, Std. Dev.=0.7008, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9026, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

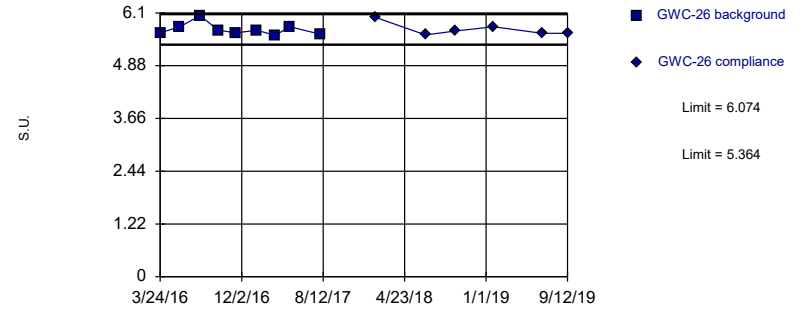


Background Data Summary: Mean=6.221, Std. Dev.=0.558, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.792. Kappa = 2.289 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

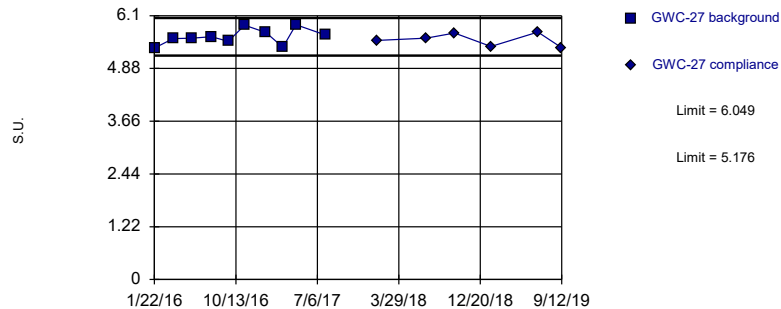


Background Data Summary: Mean=5.719, Std. Dev.=0.1386, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8363, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

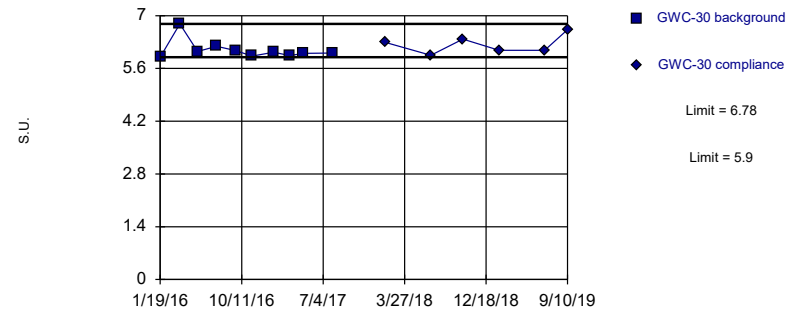


Background Data Summary: Mean=5.612, Std. Dev.=0.1829, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.941, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Non-parametric

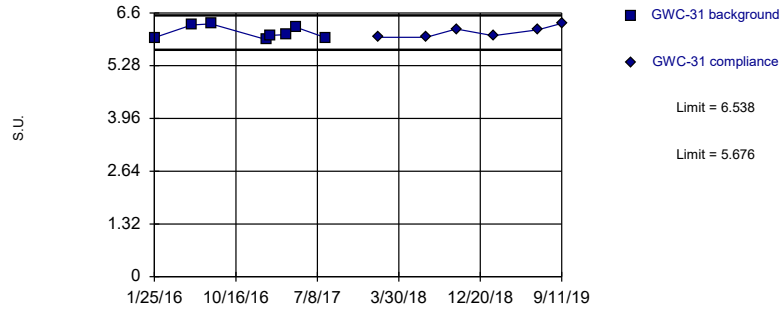


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 10 background values. Well-constituent pair annual alpha = 0.01374. Individual comparison alpha = 0.00688 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

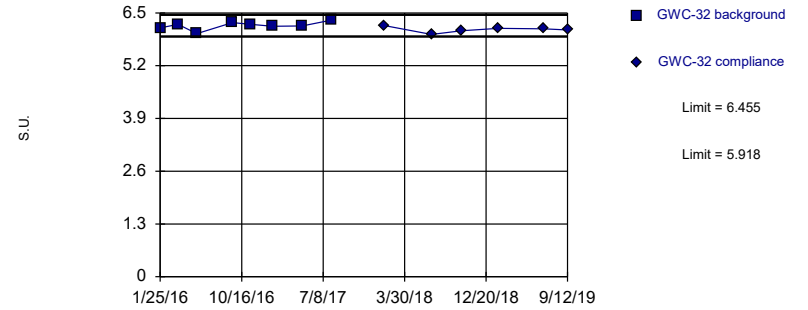


Background Data Summary: Mean=6.107, Std. Dev.=0.1577, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8673, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

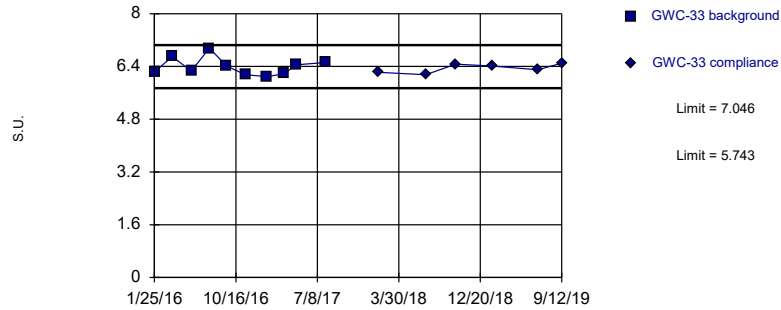


Background Data Summary: Mean=6.186, Std. Dev.=0.0983, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9382, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

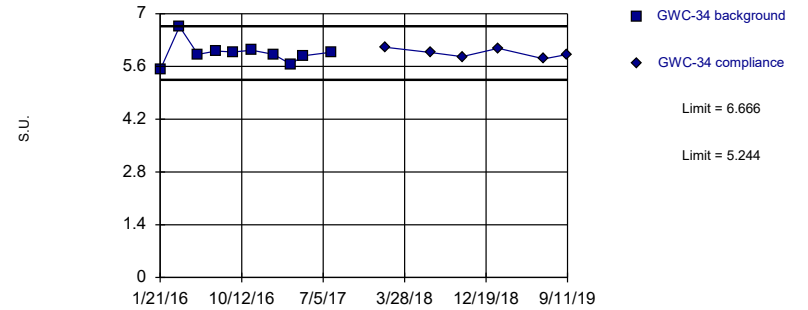


Background Data Summary: Mean=6.395, Std. Dev.=0.2731, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.915, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

### pH Intrawell Parametric

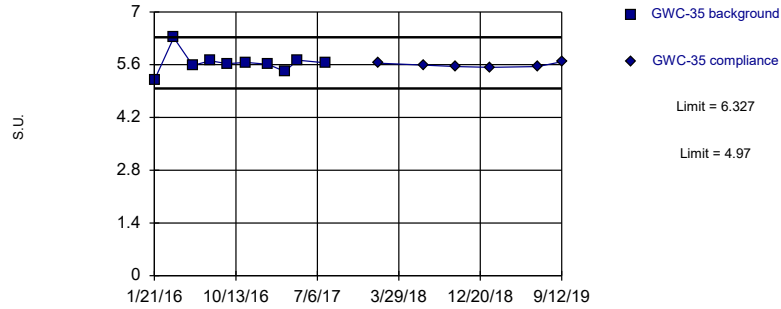


Background Data Summary: Mean=5.955, Std. Dev.=0.2981, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.839, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

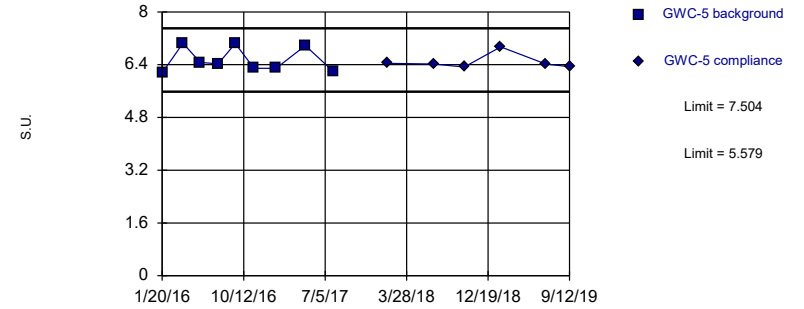


Background Data Summary: Mean=5.648, Std. Dev.=0.2844, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8362, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

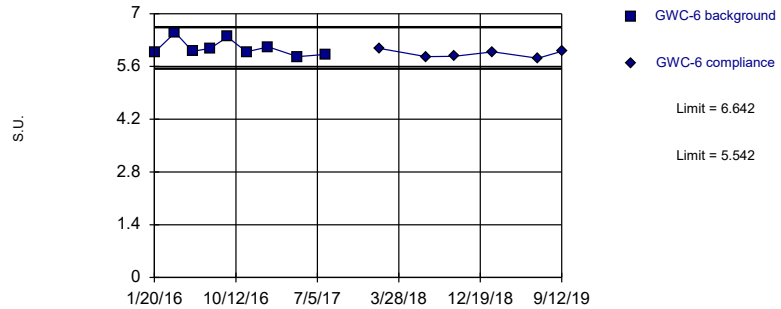


Background Data Summary: Mean=6.542, Std. Dev.=0.3761, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8199, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

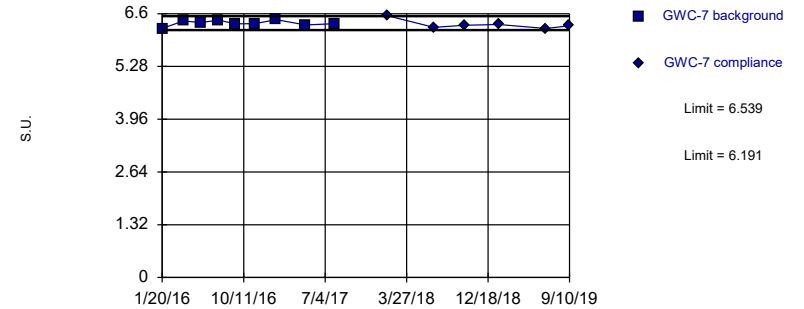


Background Data Summary: Mean=6.092, Std. Dev.=0.2149, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8657, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric



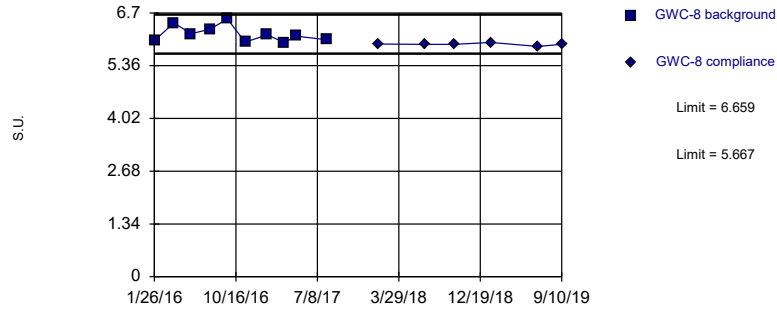
Background Data Summary: Mean=6.365, Std. Dev.=0.06791, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9294, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limits

pH  
Intrawell Parametric

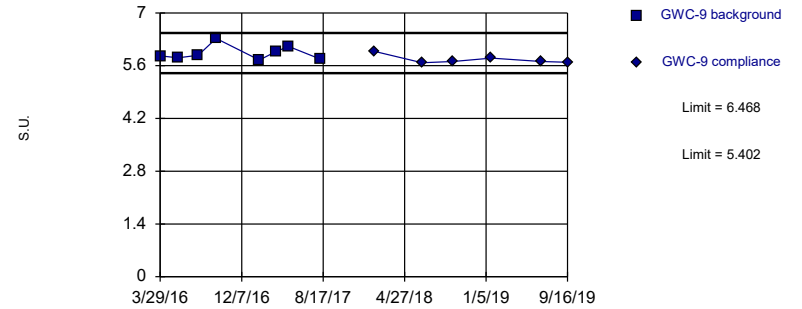


Background Data Summary: Mean=6.163, Std. Dev.=0.2079, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.894, critical = 0.781. Kappa = 2.386 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

pH  
Intrawell Parametric

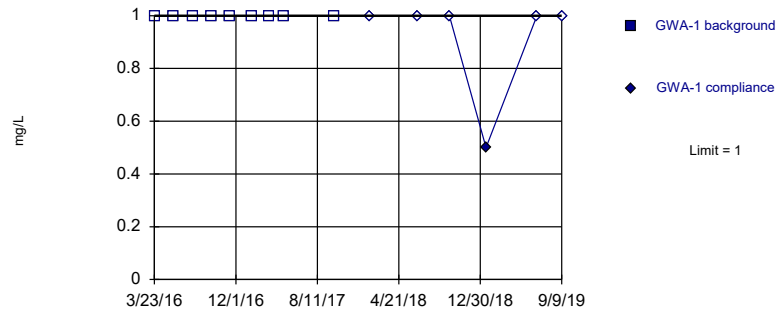


Background Data Summary: Mean=5.935, Std. Dev.=0.1949, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.868, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

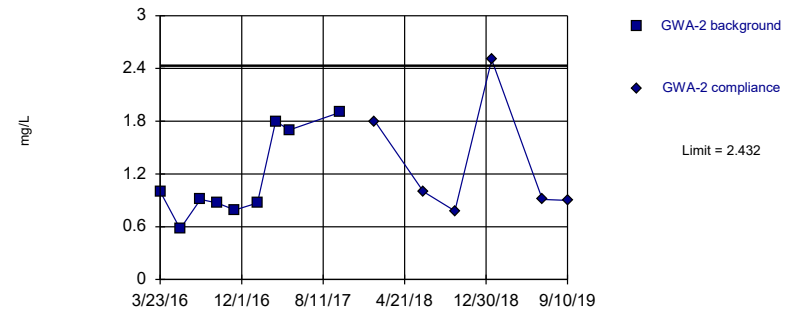


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

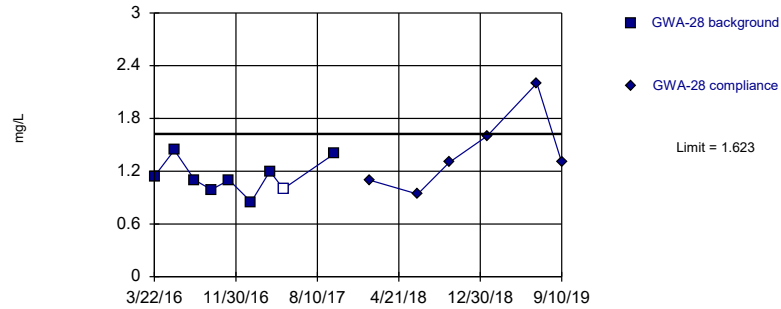


Background Data Summary: Mean=1.157, Std. Dev.=0.4978, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.831, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

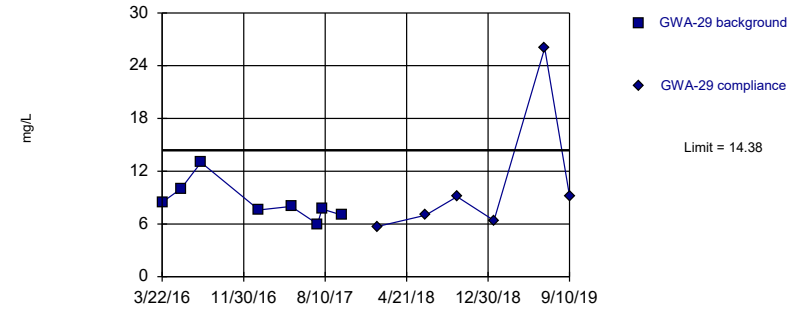


Background Data Summary: Mean=1.136, Std. Dev.=0.1905, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9451, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

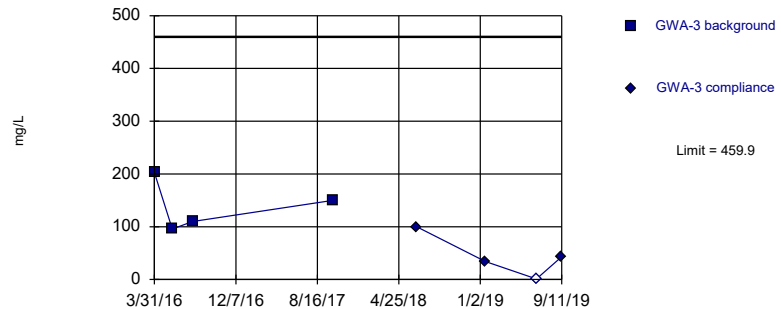


Background Data Summary: Mean=8.471, Std. Dev.=2.161, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8766, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

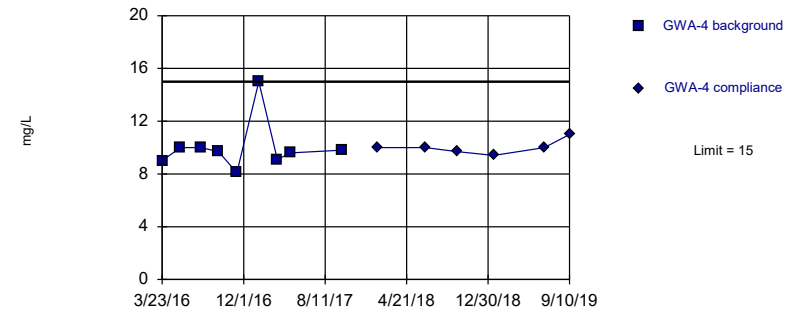


Background Data Summary: Mean=139.7, Std. Dev.=48.06, n=4. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9337, critical = 0.687. Kappa = 6.664 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 4:59 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

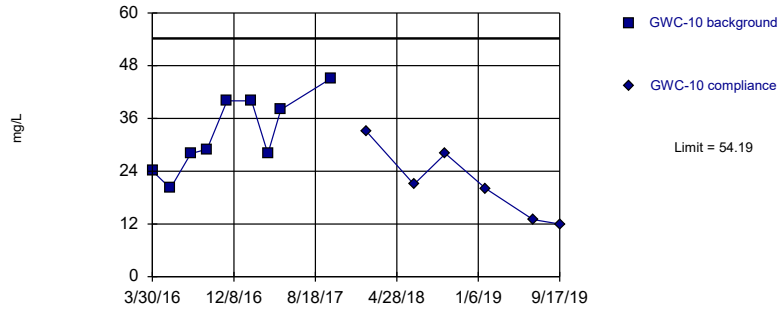


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric

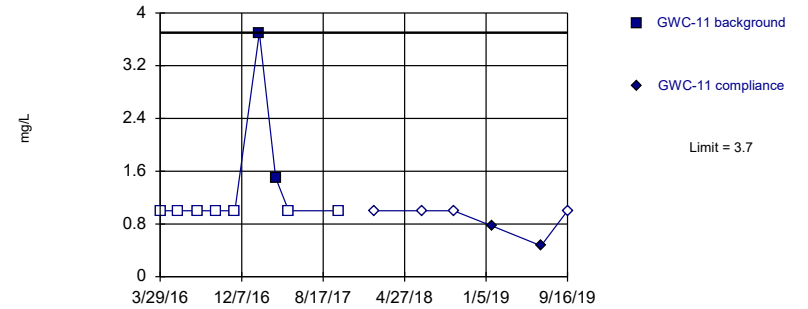


Background Data Summary: Mean=32.46, Std. Dev.=8.49, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9293, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Non-parametric

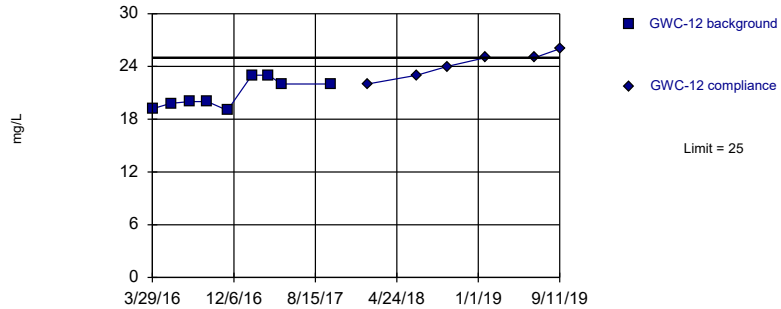


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

**Sulfate**  
Intrawell Parametric

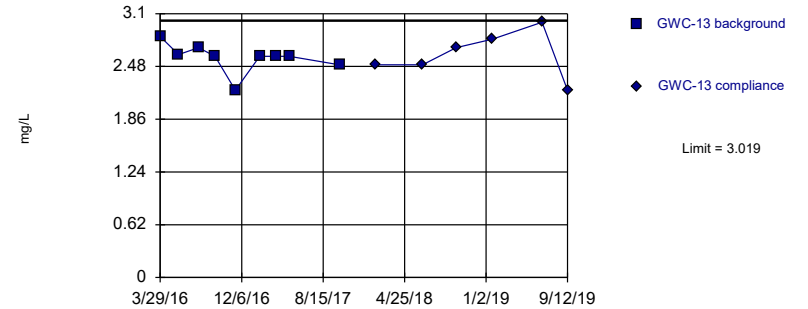


Background Data Summary: Mean=20.89, Std. Dev.=1.605, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8624, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric

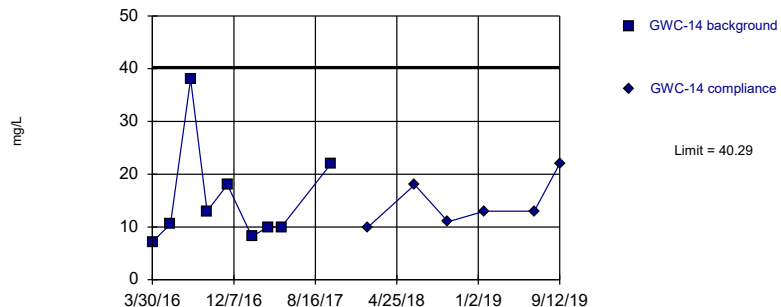


Background Data Summary: Mean=2.584, Std. Dev.=0.1701, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8387, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric

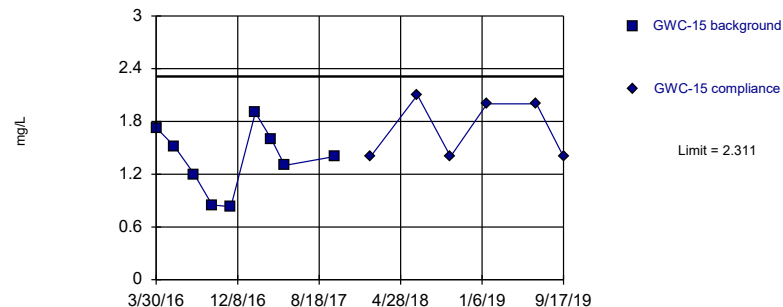


Background Data Summary: Mean=15.21, Std. Dev.=9.797, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7801, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric



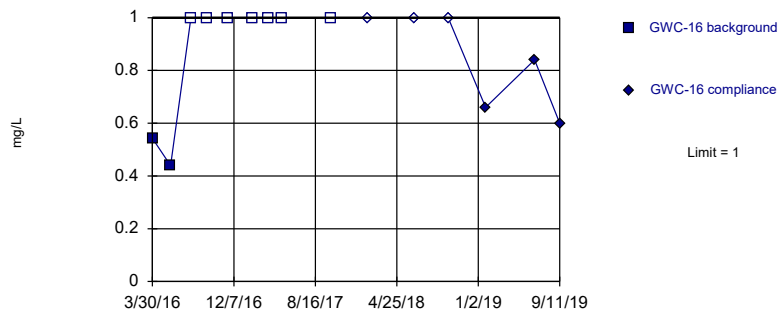
Background Data Summary: Mean=1.37, Std. Dev.=0.3678, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9523, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

**Sulfate**  
Intrawell Non-parametric



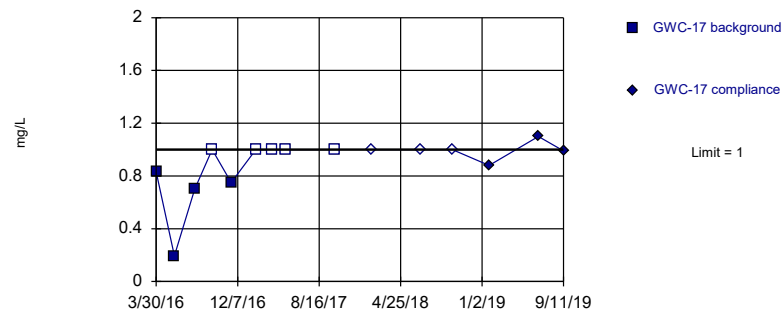
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

**Sulfate**  
Intrawell Non-parametric

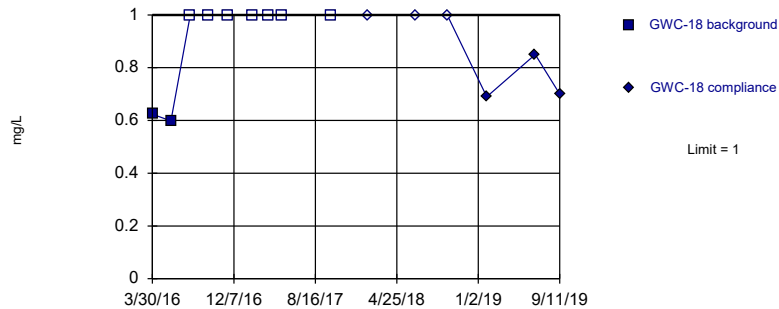


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

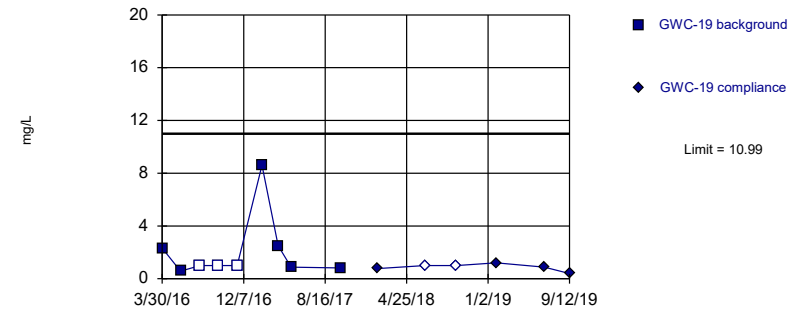


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

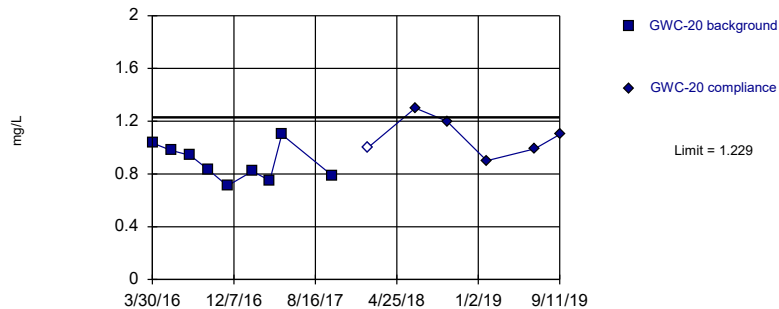


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=0.236, Std. Dev.=0.8444, n=9, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8357, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

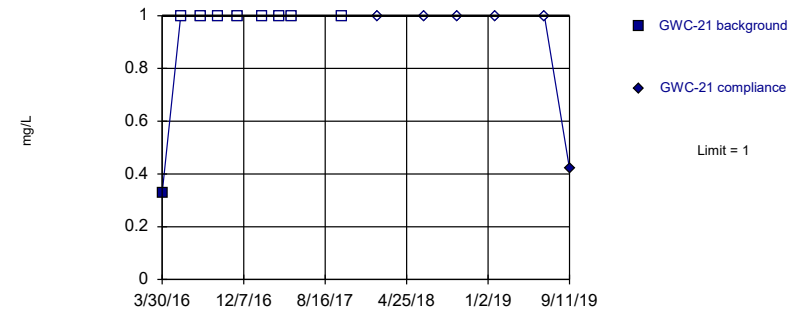


Background Data Summary: Mean=0.8838, Std. Dev.=0.135, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9435, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Non-parametric

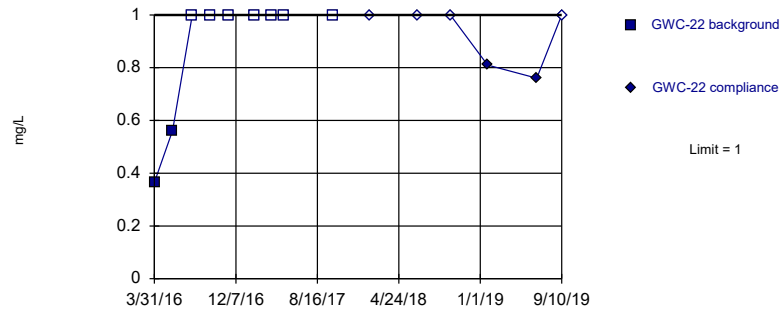


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
 Intrawell Non-parametric

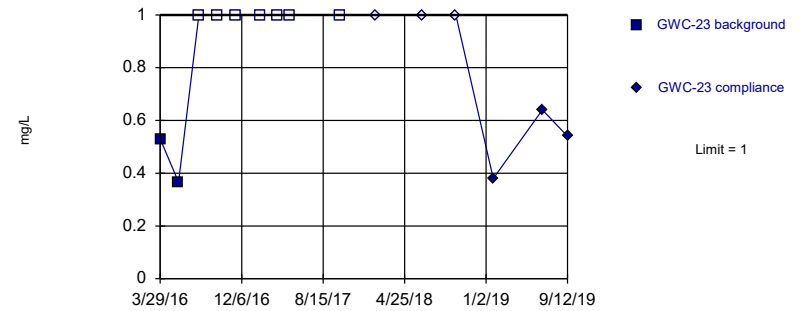


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
 Intrawell Non-parametric

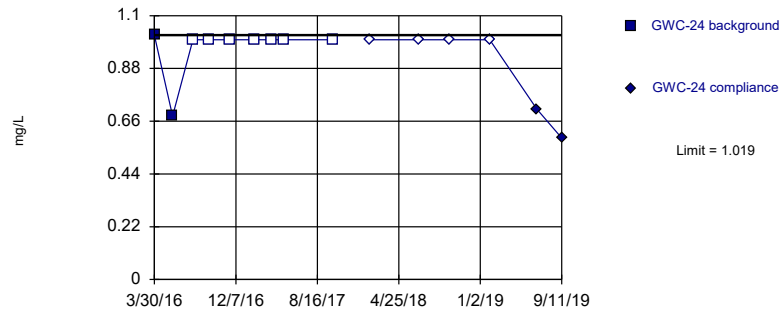


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
 Intrawell Non-parametric

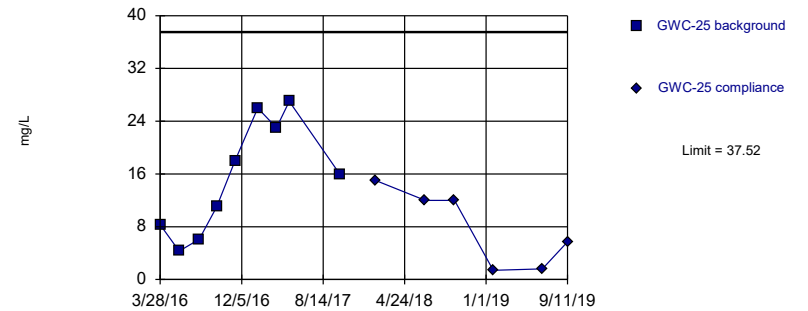


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
 Intrawell Parametric

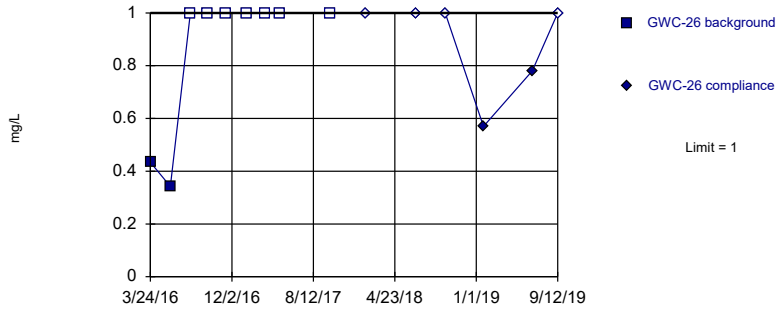


Background Data Summary: Mean=15.53, Std. Dev.=8.593, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9254, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Non-parametric

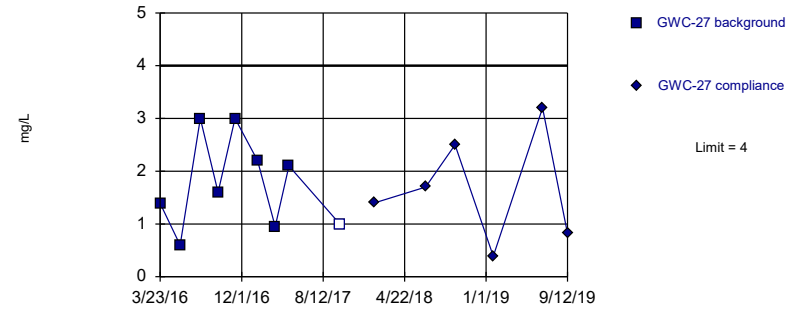


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

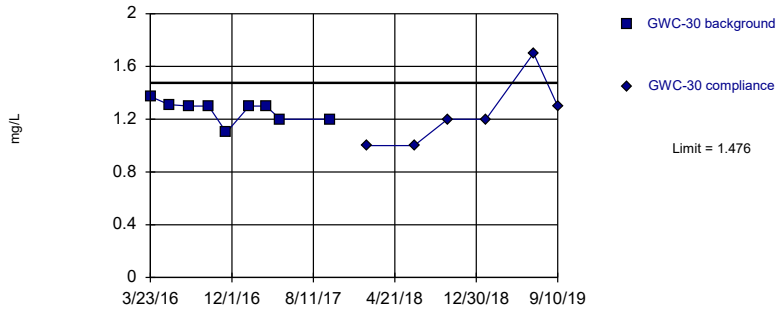


Background Data Summary: Mean=1.76, Std. Dev.=0.8754, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9268, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

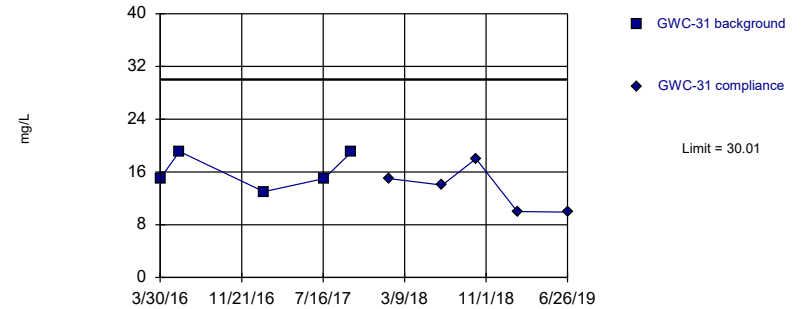


Background Data Summary: Mean=1.265, Std. Dev.=0.08234, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8612, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Sulfate Intrawell Parametric

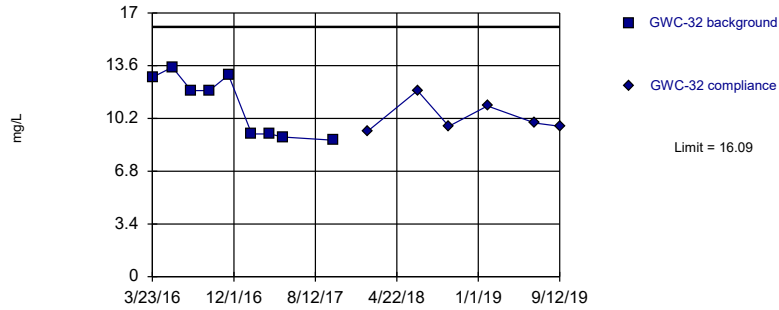


Background Data Summary: Mean=16.22, Std. Dev.=2.708, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8586, critical = 0.686. Kappa = 5.09 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:00 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

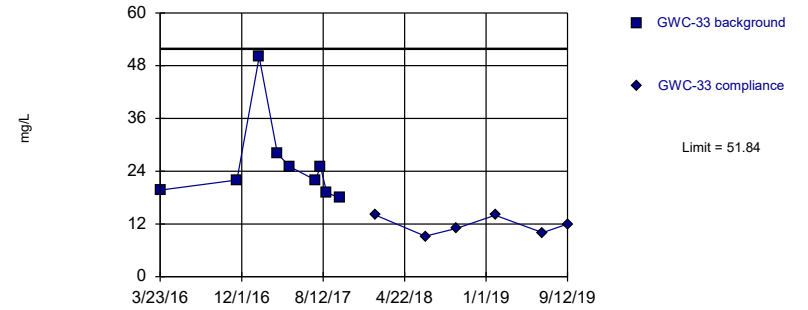


Background Data Summary: Mean=11.06, Std. Dev.=1.967, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8243, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

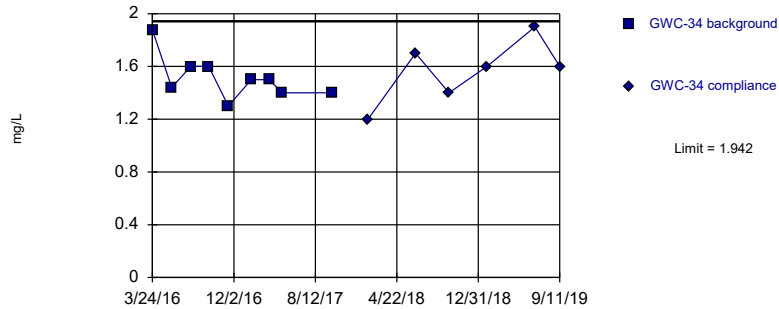


Background Data Summary (based on cube root transformation): Mean=2.907, Std. Dev.=0.3211, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7784, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric

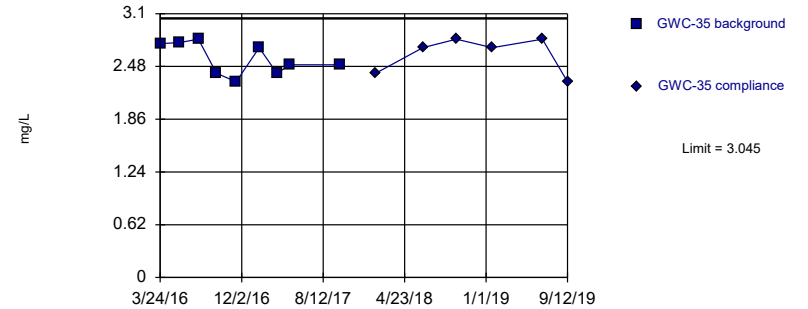


Background Data Summary: Mean=1.513, Std. Dev.=0.1677, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9018, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Sulfate  
Intrawell Parametric



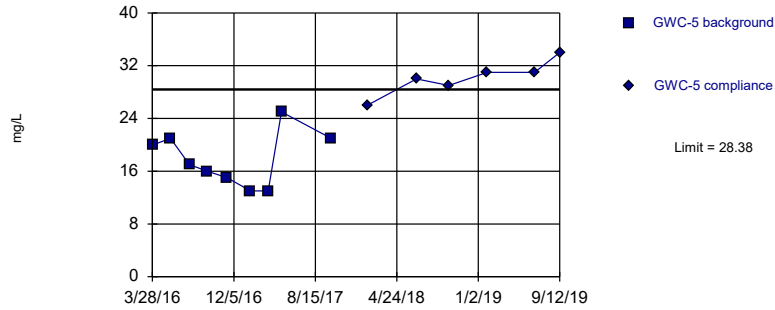
Background Data Summary: Mean=2.568, Std. Dev.=0.1864, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8951, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Exceeds Limit

**Sulfate**  
Intrawell Parametric

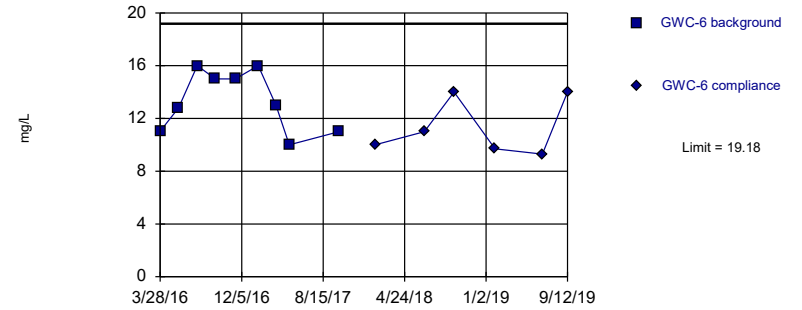


Background Data Summary: Mean=17.88, Std. Dev.=4.102, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric

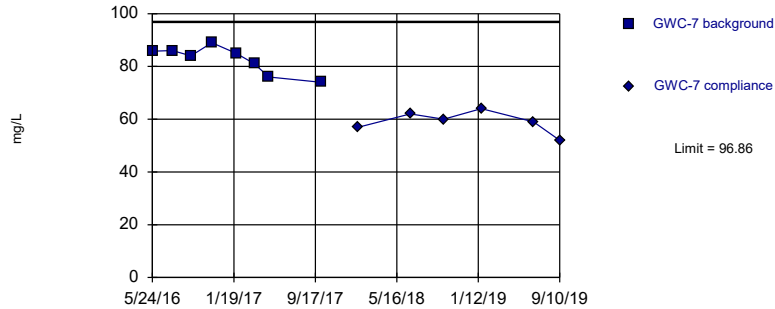


Background Data Summary: Mean=13.32, Std. Dev.=2.291, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8994, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric

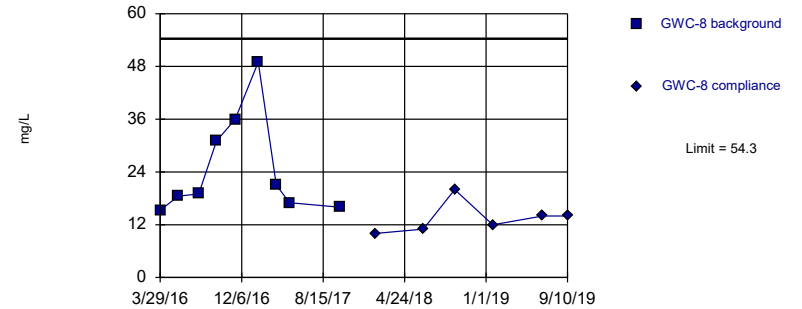


Background Data Summary: Mean=82.6, Std. Dev.=5.218, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9053, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric

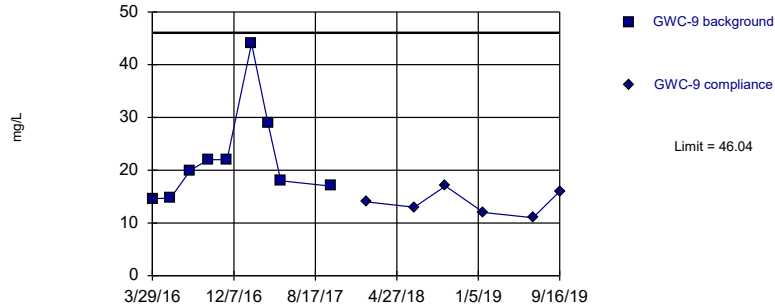


Background Data Summary: Mean=24.76, Std. Dev.=11.54, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8074, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Sulfate**  
Intrawell Parametric

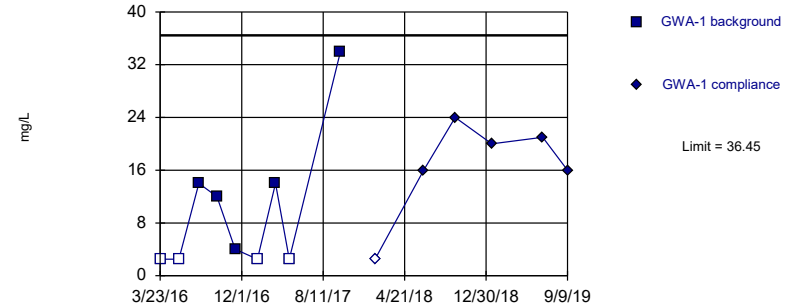


Background Data Summary: Mean=22.37, Std. Dev.=9.25, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7934, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric

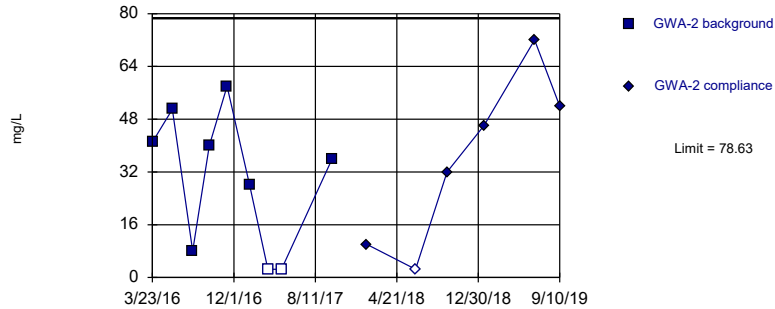


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=2.809, Std. Dev.=1.261, n=9, 44.44% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8066, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric

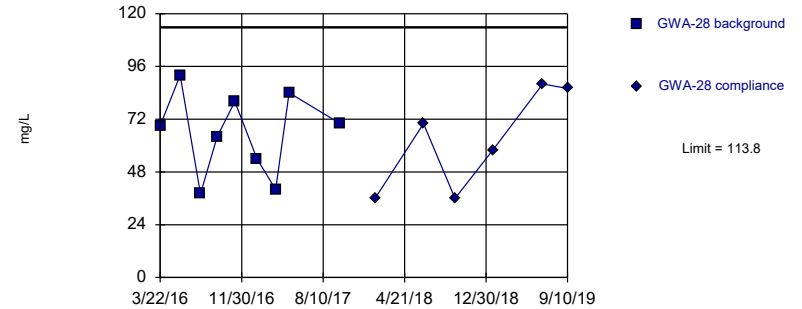


Background Data Summary (after Kaplan-Meier Adjustment): Mean=30.22, Std. Dev.=18.91, n=9, 22.22% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.903, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

**Total Dissolved Solids**  
Intrawell Parametric

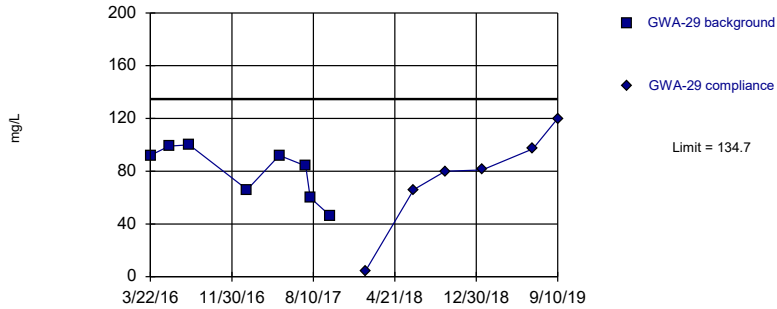


Background Data Summary: Mean=65.67, Std. Dev.=18.8, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

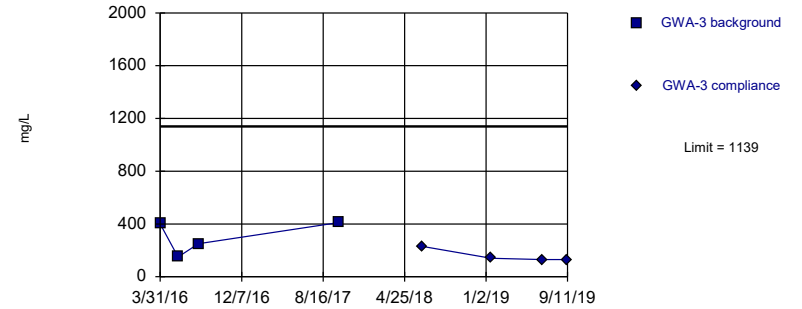


Background Data Summary: Mean=79.88, Std. Dev.=20.06, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8875, critical = 0.749. Kappa = 2.733 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

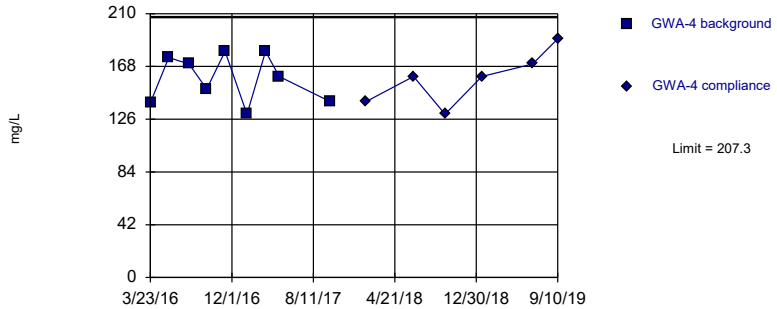


Background Data Summary: Mean=302.8, Std. Dev.=125.5, n=4. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8803, critical = 0.687. Kappa = 6.664 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

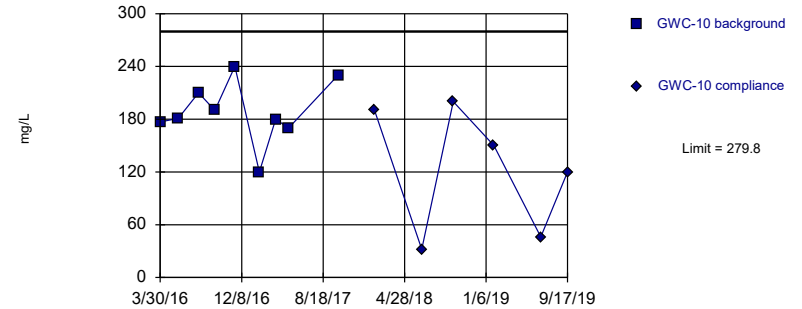


Background Data Summary: Mean=158.2, Std. Dev.=19.16, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9046, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

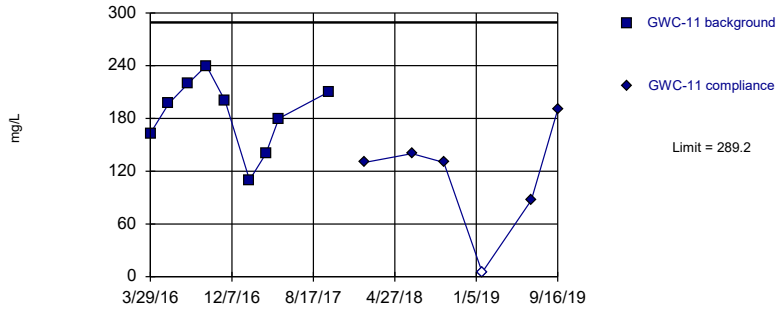


Background Data Summary: Mean=188.7, Std. Dev.=35.59, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9397, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

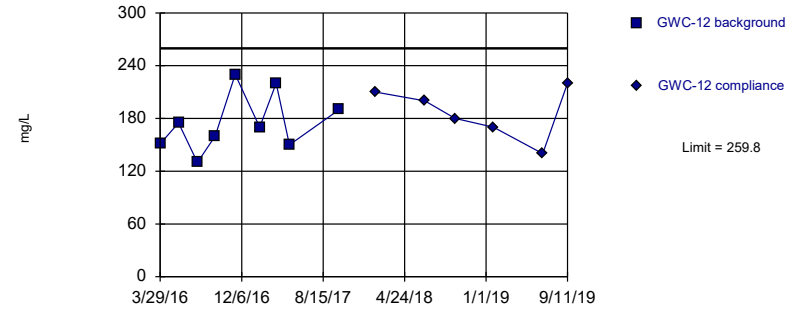


Background Data Summary: Mean=184.4, Std. Dev.=40.93, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

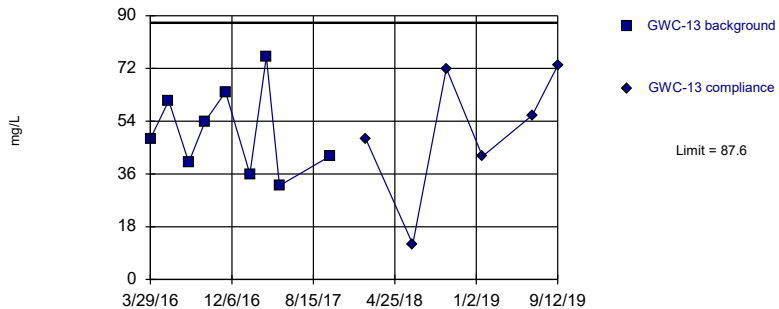


Background Data Summary: Mean=175.1, Std. Dev.=33.07, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9404, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

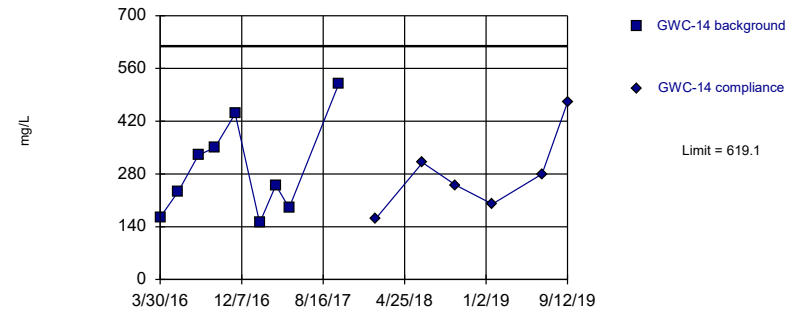


Background Data Summary: Mean=50.33, Std. Dev.=14.56, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

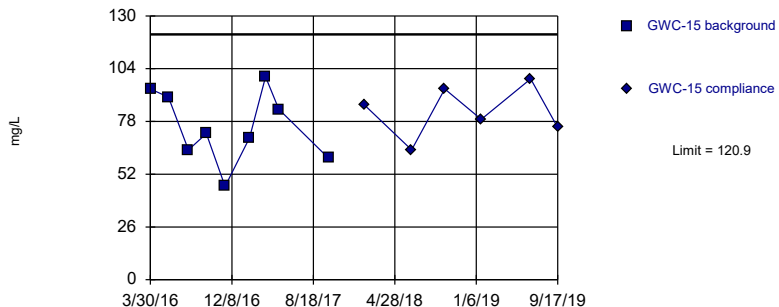


Background Data Summary: Mean=292, Std. Dev.=127.8, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9263, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

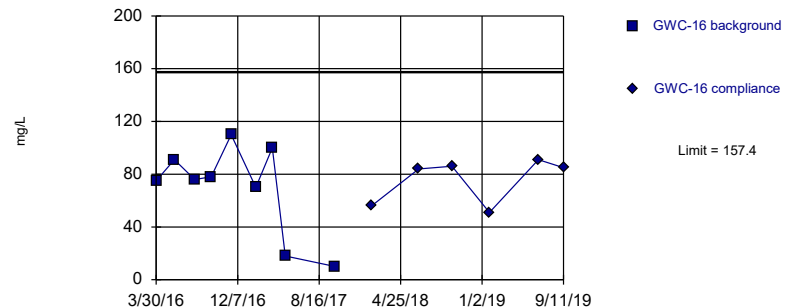


Background Data Summary: Mean=75.56, Std. Dev.=17.71, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9678, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:01 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

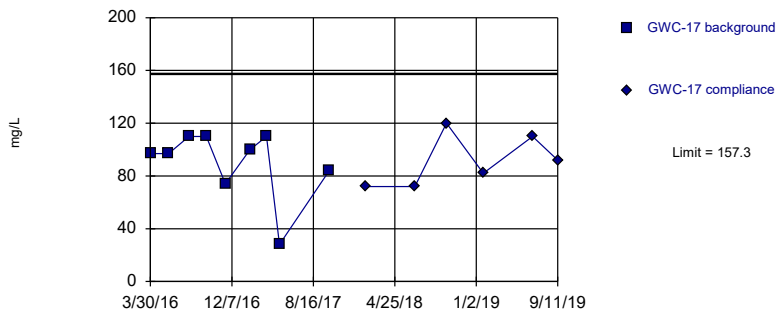


Background Data Summary: Mean=69.78, Std. Dev.=34.22, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8629, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

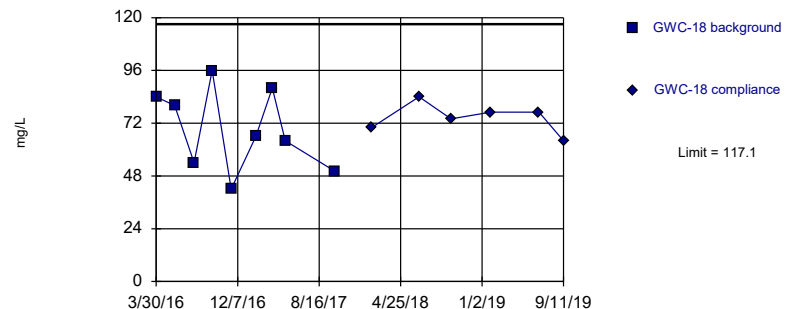


Background Data Summary: Mean=90, Std. Dev.=26.3, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7725, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

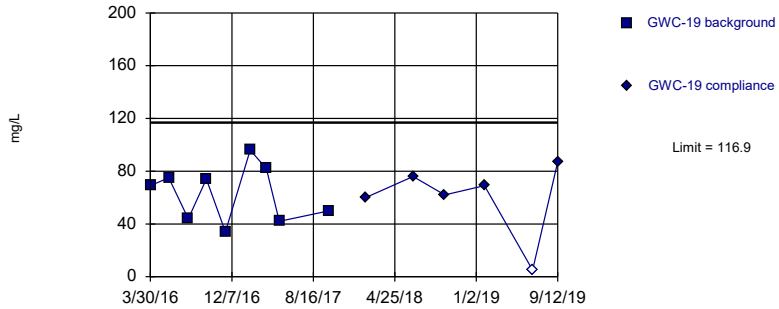
Within Limit

### Total Dissolved Solids Intrawell Parametric



Within Limit

### Total Dissolved Solids Intrawell Parametric

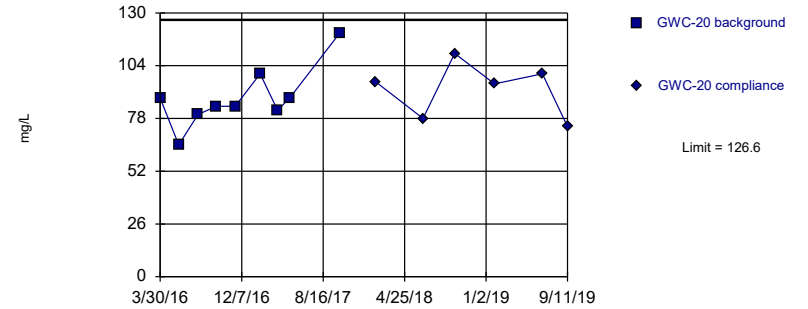


Background Data Summary: Mean=62.89, Std. Dev.=21.1, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

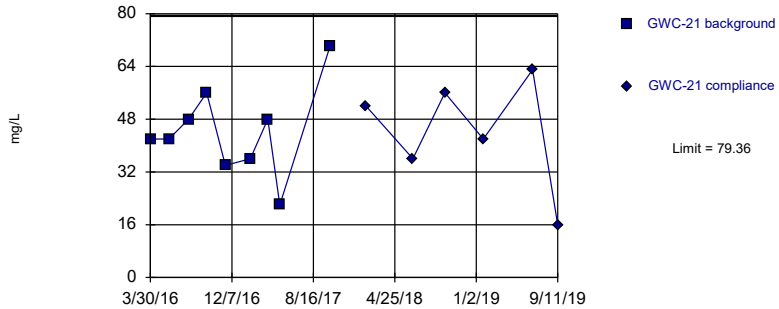


Background Data Summary: Mean=87.89, Std. Dev.=15.12, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.894, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

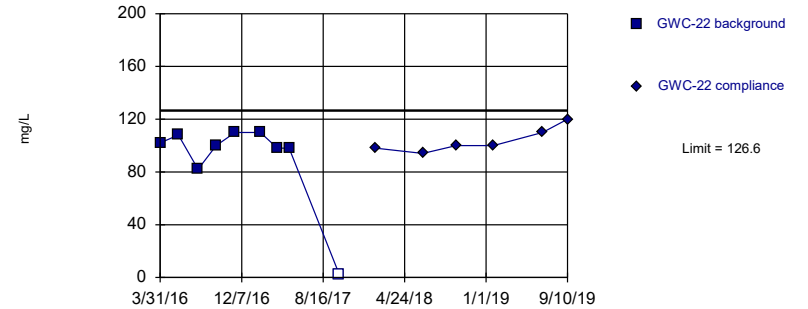


Background Data Summary: Mean=44.22, Std. Dev.=13.73, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.975, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

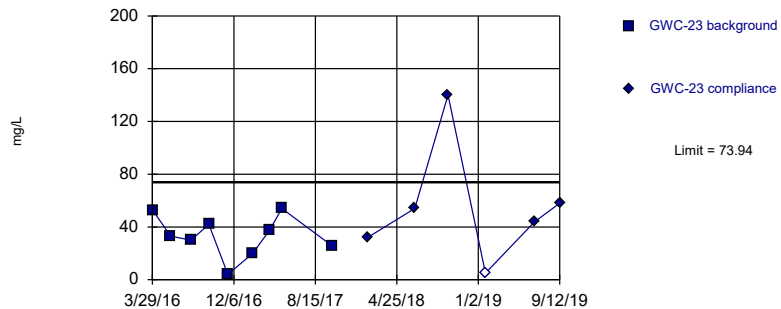


Background Data Summary (based on cube transformation): Mean=935188, Std. Dev.=427298, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

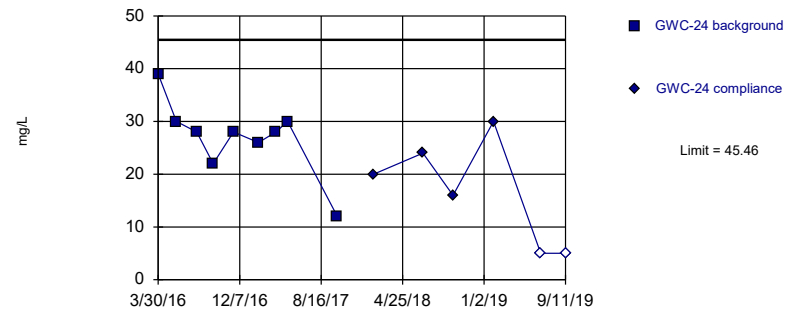


Background Data Summary: Mean=33.33, Std. Dev.=15.87, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9641, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

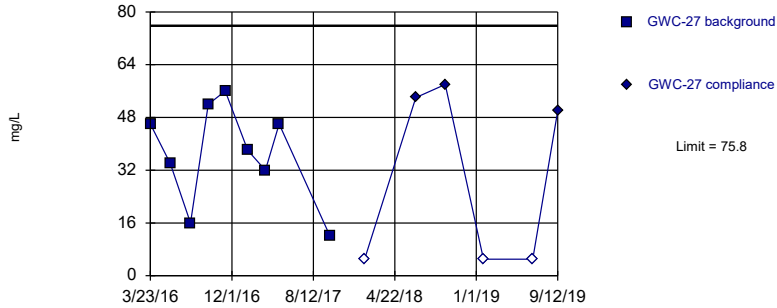
Within Limit

### Total Dissolved Solids Intrawell Parametric



Within Limit

Total Dissolved Solids  
Intrawell Parametric

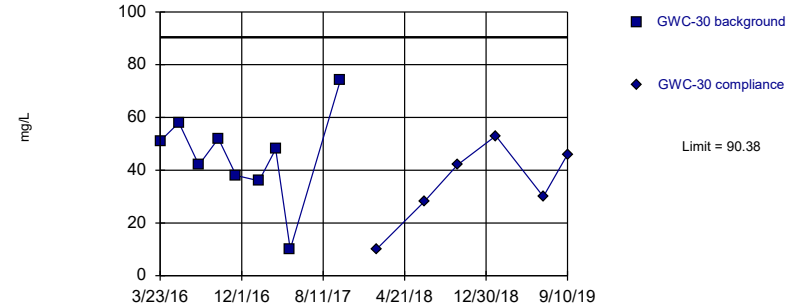


Background Data Summary: Mean=36.89, Std. Dev.=15.2, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.931, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

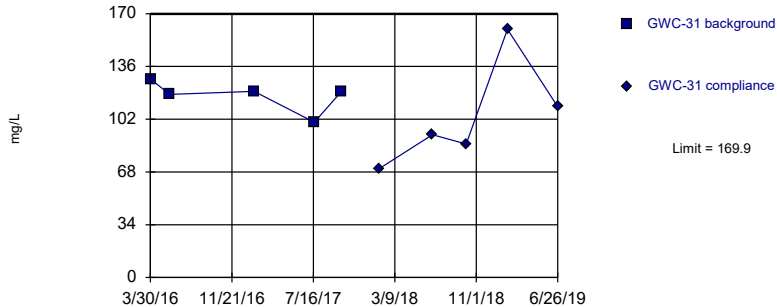


Background Data Summary: Mean=45.44, Std. Dev.=17.56, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

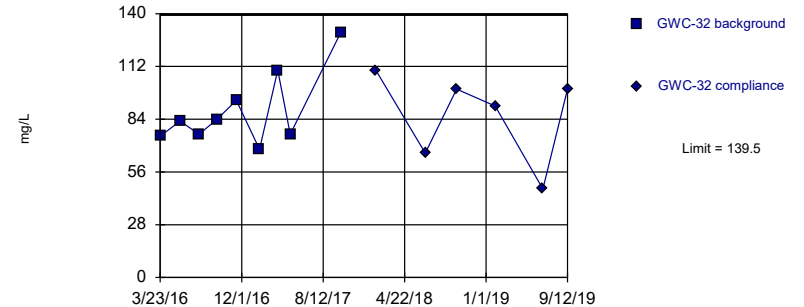


Background Data Summary: Mean=117.2, Std. Dev.=10.35, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.85, critical = 0.686. Kappa = 5.09 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric



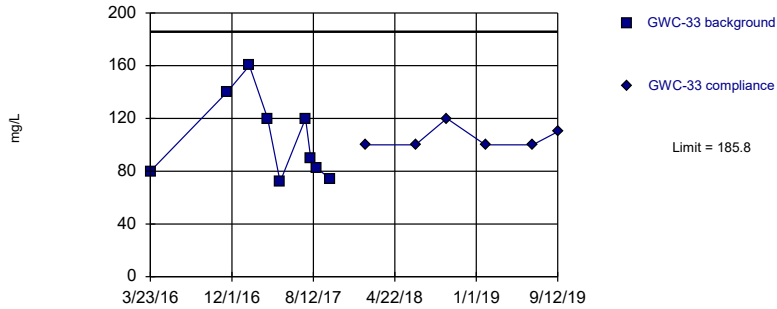
Background Data Summary: Mean=88.44, Std. Dev.=19.94, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.856, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Total Dissolved Solids  
Intrawell Parametric

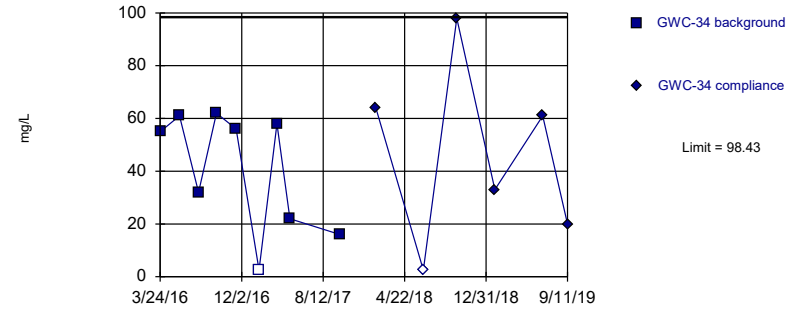


Background Data Summary: Mean=104.2, Std. Dev.=31.87, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8837, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric



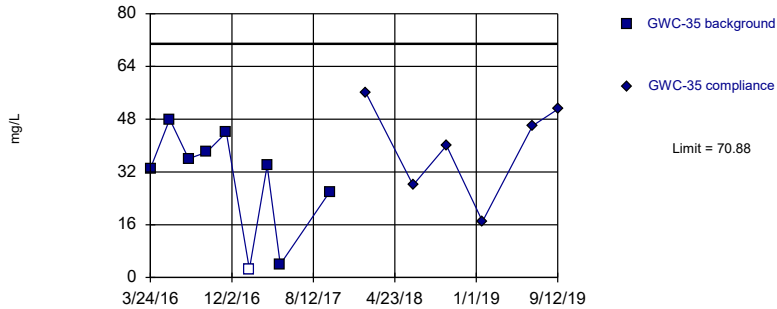
Background Data Summary: Mean=40.5, Std. Dev.=22.63, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.85, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Total Dissolved Solids  
Intrawell Parametric

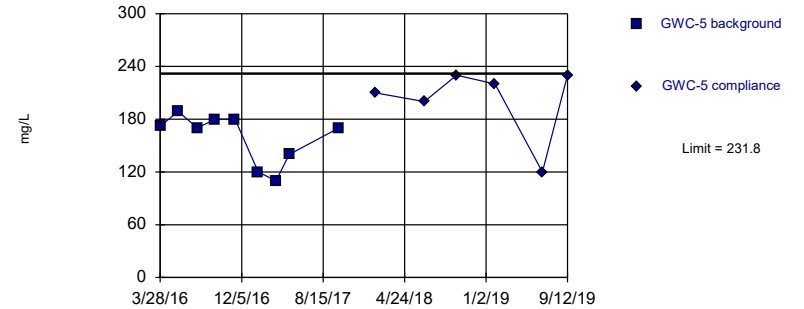


Background Data Summary: Mean=29.5, Std. Dev.=16.17, n=9, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8606, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Total Dissolved Solids  
Intrawell Parametric

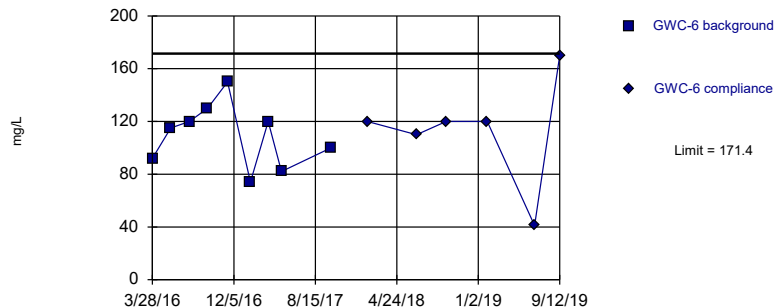


Background Data Summary: Mean=159, Std. Dev.=28.45, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8472, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric

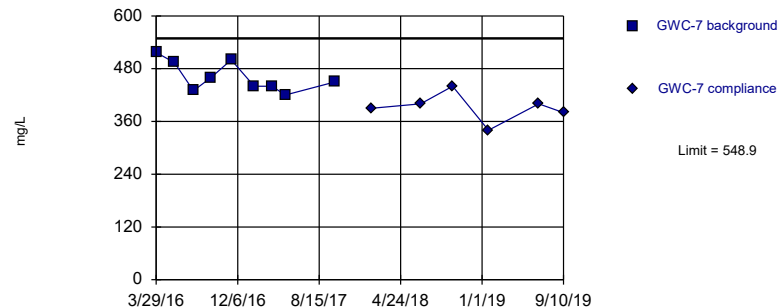


Background Data Summary: Mean=109.2, Std. Dev.=24.3, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.764. Kappa = 2.559 (c=7, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002595.

Prediction Limit Analysis Run 11/14/2019 5:02 PM View: CCR Intrawell PL  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Total Dissolved Solids Intrawell Parametric



# Prediction Limit

Constituent: pH Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28	GWA-29	GWA-29
1/19/2016							5.92	
1/20/2016			5.47					
1/21/2016	5.03							
1/22/2016					6.27			
3/22/2016					6.72		5.92	
3/23/2016	5.56		5.85					
5/19/2016							5.95	
5/20/2016	5.62							
5/23/2016					6.29			
5/24/2016			5.86					
7/21/2016	5.500376						6.049508	
7/25/2016					6.178217			
7/26/2016			5.808275					
9/15/2016	5.31						6.444541	
9/16/2016					6.545359			
11/9/2016					6			
11/10/2016			5.63					
11/11/2016	5.4							
1/17/2017					6.09			
1/19/2017	5.73		5.63					
3/15/2017							5.86	
3/16/2017	5.25				5.98			
3/17/2017			5.68					
4/27/2017					5.96		5.85	
4/28/2017	5.35		5.77					
8/1/2017					6.01 (D)		5.86 (D)	
8/2/2017			5.67 (D)					
8/3/2017	5.32 (D)							
1/19/2018		5.39 (D)		5.68 (D)		6.15 (D)		5.83 (D)
6/19/2018		5.27		5.84		5.96		5.77
9/25/2018		5.27		5.52		5.94		5.92
1/17/2019		5.43		5.81				
1/18/2019								5.86
1/21/2019						5.92		
6/24/2019		5.3		5.75				
6/25/2019						6.03		5.96
9/9/2019		5.37						
9/10/2019				5.63		5.79		5.94

# Prediction Limit

Constituent: pH Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12
1/25/2016			6.27					
1/26/2016					6.11		7.37	
3/29/2016					6.59		7.53	
5/19/2016	6.45							
5/25/2016			6.44		6.31		7.44	
7/21/2016	6.449699							
7/25/2016					6.287783			
7/27/2016			6.364588					
9/14/2016	6.396439							
9/15/2016							6.283325	
9/16/2016			6.202937					
9/19/2016					6.027665			
11/10/2016	6.19							
11/16/2016					6.04		6.99	
11/17/2016			5.95					
1/17/2017	6.18							
1/31/2017			6.47		5.94		7.065 (D)	
3/16/2017	6.1							
3/23/2017					6.06		7.41	
4/28/2017	6.51							
5/2/2017			6.69		5.95			
5/3/2017							7.32	
8/2/2017	6.23 (D)							
8/7/2017					6.11 (D)		7.25 (D)	
8/8/2017			6.67 (D)					
1/22/2018		6.3 (D)						
1/24/2018				6.47 (D)		6.17 (D)		7.02 (D)
6/19/2018		6.2						
6/20/2018						5.92		
6/21/2018				5.76				
6/26/2018								7.43
9/25/2018		6.21						
9/27/2018				5.5		5.97		
9/28/2018								7.3
1/17/2019		6.29						
1/24/2019						6.25		
1/25/2019								7.49
1/31/2019				5.75				
6/24/2019		6.12						
6/26/2019				5.78		5.97		7.28
9/10/2019		6.18						
9/11/2019								7.47
9/16/2019						6.07		
9/17/2019				5.55				

# Prediction Limit

Constituent: pH Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16
1/27/2016	6.52		5.88		6.67		6.03	
3/29/2016	7.49							
3/30/2016			6.01		6.7			
5/25/2016	6.76		5.52		6.52		6.22	
7/26/2016	6.859244		6.066915		6.719922			
7/27/2016							6.30178	
9/15/2016	7.565879		5.220961					
9/20/2016					6.519229			
11/17/2016	6.63		5.05		6.54		5.9	
2/1/2017			5.5		6.56		6.14	
3/23/2017	6.85		5.41					
3/24/2017							5.99	
5/3/2017	6.57		5.71		6.5		6.06	
8/4/2017	6.77 (D)				6.55 (D)			
8/7/2017			5.03 (D)				6.12 (D)	
1/25/2018		6.63 (D)		5.64 (D)		6.45 (D)		6.1 (D)
6/20/2018		6.66		5.05		7.24		6.08
10/1/2018				5.59		6.5		6.12
10/2/2018		6.91						
1/22/2019		6.61		5.72		6.48		
1/25/2019								6.05
6/25/2019		6.54		5.49		6.43		6.08
9/11/2019								6.22
9/12/2019		6.73		4.92				
9/17/2019						6.54		

# Prediction Limit

Constituent: pH Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20
1/27/2016	6.27				6.14		6.08	
3/30/2016	6.22		6.03		6.1		6.27	
5/25/2016	6.24							
5/26/2016			6.03		5.99		6.23	
7/25/2016			6.066342		6.063209		6.3145	
7/27/2016	6.321385							
9/19/2016			6.040669		6.276656			
9/20/2016							7.120962	
11/17/2016	6.11				5.97			
2/1/2017	6.18		5.98					
2/2/2017							6.17	
3/24/2017	6.34		5.85		5.82			
5/3/2017	6.09		5.92		5.89			
5/4/2017							6.38	
8/7/2017	6.16 (D)		5.98 (D)		5.93 (D)		6.19 (D)	
1/25/2018		6.2 (D)		6.03 (D)		5.89 (D)		
1/26/2018								6.16 (D)
6/21/2018				5.87		5.78		6.65
6/26/2018		6.1						
9/27/2018						5.82		6.29
9/28/2018				5.77				
10/2/2018		6.16						
1/24/2019		6.31						
1/28/2019				6.03		5.96		6.31
6/25/2019		6.12						6.15
6/26/2019						5.78		
6/27/2019				5.78				
9/11/2019		6.39		6.02				6.27
9/12/2019						5.92		

# Prediction Limit

Constituent: pH Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24
1/20/2016							5.41	
1/21/2016					6.24			
1/26/2016	5.39		6.46					
3/29/2016					4.87			
3/30/2016	5.88							
3/31/2016			6.53					
5/25/2016					6.11		6.46	
5/26/2016	5.55		6.69					
7/26/2016	5.64011		6.620398					
7/27/2016							6.119047	
9/16/2016							6.310241	
9/20/2016	6.575025		6.696588		7.295281			
11/17/2016	5.56		6.52					
11/18/2016					6.32		5.62	
2/3/2017					5.91			
2/6/2017							5.36	
3/28/2017	5.36		6.87		5.86		5.87	
5/3/2017			6.59				7.5	
5/4/2017	5.55				6.2			
8/7/2017	5.61 (D)							
8/8/2017			6.59 (D)		6.07 (D)			
1/25/2018				6.49 (D)		6.06 (D)		5.74 (D)
1/26/2018		5.65 (D)						
6/20/2018		5.48		6.42		5.84		
6/27/2018								5.51
9/27/2018		5.38						
9/28/2018								5.28
10/1/2018				6.7		5.96		
1/24/2019		6.01		6.69				
1/25/2019						5.97		
1/31/2019								5.28
6/25/2019		5.35		6.59				
6/26/2019						5.86		5.59
9/10/2019				6.44				
9/11/2019		5.71						5.21
9/12/2019						5.93		

# Prediction Limit

Constituent: pH Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25	GWC-26	GWC-26	GWC-27	GWC-27	GWC-30	GWC-30
1/19/2016							5.9	
1/20/2016	5.98							
1/22/2016					5.35			
3/23/2016					5.57		6.78	
3/24/2016			5.64					
3/28/2016	5.1							
5/20/2016							6.05	
5/24/2016			5.78		5.58			
5/25/2016	5.7							
7/21/2016							6.188237	
7/26/2016			6.038068		5.614371			
7/27/2016	5.966094							
9/19/2016	6.070052				5.506855			
9/20/2016			5.701864				6.075727	
11/11/2016					5.88			
11/14/2016			5.64				5.93	
11/15/2016	6.35							
1/19/2017			5.7					
1/20/2017	6.54				5.71			
1/23/2017	6.59							
1/24/2017							6.03 (D)	
3/16/2017			5.58		5.37			
3/17/2017							5.94	
3/23/2017	7.25							
3/24/2017	6.56							
4/28/2017					5.89			
5/1/2017			5.78				6	
8/3/2017	6.33 (D)		5.61 (D)		5.65 (D)			
8/4/2017							6.01 (D)	
1/19/2018						5.53 (D)		
1/22/2018				6 (D)				
1/24/2018		6.12 (D)						6.29 (D)
6/21/2018								5.95
6/27/2018		6.28		5.59		5.58		
9/26/2018		6.4						
9/27/2018				5.68		5.7		
10/3/2018								6.38
1/24/2019		6		5.78		5.39		
1/30/2019								6.08
6/25/2019		5.66		5.63				
6/26/2019						5.72		
6/27/2019								6.08
9/10/2019								6.63
9/11/2019		5.99						
9/12/2019				5.63		5.36		



# Prediction Limit

Constituent: pH Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31	GWC-32	GWC-32	GWC-33	GWC-33	GWC-34	GWC-34
1/21/2016							5.51	
1/25/2016	5.98		6.13		6.23			
3/23/2016			6.22		6.7			
3/24/2016							6.66	
5/23/2016			5.99				5.92	
5/24/2016					6.26			
5/25/2016	6.3							
7/21/2016							6.008569	
7/22/2016					6.956045			
7/27/2016	6.327805							
9/15/2016							5.982305	
9/16/2016			6.260319		6.411956			
11/15/2016			6.22				6.03	
11/16/2016					6.15			
1/24/2017	5.93							
1/25/2017			6.17		6.09		5.92	
2/6/2017	6.04							
3/22/2017					6.18		5.66	
3/28/2017	6.06							
5/1/2017	6.24		6.18		6.45		5.88	
8/3/2017	5.98 (D)		6.32 (D)		6.52 (D)		5.98 (D)	
1/22/2018		5.99 (D)		6.19 (D)		6.22 (D)		
1/23/2018								6.11 (D)
6/20/2018								5.97
6/26/2018				5.97		6.15		
6/27/2018		5.99						
10/2/2018				6.06		6.47		5.86
10/3/2018		6.2						
1/28/2019								6.08
1/30/2019				6.12		6.41		
1/31/2019		6.03						
6/26/2019		6.18				6.3		5.8
6/27/2019				6.11				
9/11/2019		6.34						5.92
9/12/2019				6.08		6.5		

# Prediction Limit

Constituent: pH Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35	GWC-5	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7
1/20/2016			6.15		5.97		6.23	
1/21/2016	5.19							
3/24/2016	6.32							
3/28/2016			7.05		6.5			
3/29/2016							6.42	
5/23/2016			6.47					
5/24/2016					6		6.38	
5/25/2016	5.58							
7/21/2016	5.701591		6.424029		6.08222			
7/22/2016							6.438562	
9/15/2016	5.629095		7.042684		6.383623		6.347438	
11/15/2016	5.66		6.29					
11/16/2016					5.99		6.35	
1/26/2017	5.61		6.29		6.12		6.45	
3/22/2017	5.42							
5/2/2017	5.72		6.98		5.86		6.32	
8/3/2017	5.65 (D)		6.18 (D)		5.92 (D)			
8/4/2017							6.35 (D)	
1/23/2018		5.64 (D)		6.44 (D)		6.08 (D)		6.55 (D)
6/19/2018		5.59						
6/25/2018				6.42		5.86		6.26
9/25/2018						5.87		
10/1/2018		5.55						
10/2/2018								6.31
10/3/2018				6.33				
1/21/2019		5.53						6.33
1/30/2019				6.94		5.99		
6/25/2019								6.23
6/26/2019		5.55		6.42		5.82		
9/10/2019								6.3
9/12/2019		5.68		6.34		6		

# Prediction Limit

Constituent: pH, Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8	GWC-9	GWC-9	GWA-1	GWA-1	GWA-2	GWA-2
1/26/2016	5.99							
3/23/2016					<1		1.001	
3/29/2016	6.45		5.86					
5/20/2016					<1			
5/24/2016	6.17		5.81				0.576 (J)	
7/21/2016					<1			
7/25/2016			5.876175					
7/26/2016	6.291124						0.91 (J)	
9/15/2016					<1			
9/16/2016							0.87 (J)	
9/19/2016	6.550086		6.323668					
11/10/2016							0.79 (J)	
11/11/2016					<1			
11/16/2016	5.96							
1/19/2017					<1		0.87 (J)	
1/26/2017	6.14							
1/31/2017			5.75					
3/16/2017					<1			
3/17/2017							1.8	
3/23/2017	5.95		5.97					
4/28/2017					<1		1.7	
5/2/2017	6.11		6.11					
8/7/2017	6.02 (D)		5.78 (D)					
10/3/2017							1.9	
10/4/2017					<1			
1/19/2018						<1		1.8
1/24/2018		5.91 (D)		5.98 (D)				
6/19/2018					<1			1
6/21/2018		5.9		5.68				
9/25/2018					<1			0.78 (J)
9/26/2018		5.9		5.71				
1/17/2019						0.5 (J)		2.5
1/22/2019		5.95		5.8				
6/24/2019					<1			0.91 (J)
6/25/2019		5.85		5.71				
9/9/2019					<1			
9/10/2019		5.9						0.9 (J)
9/16/2019				5.69				

# Prediction Limit

Constituent: Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28	GWA-29	GWA-29	GWA-3	GWA-3	GWA-4	GWA-4
3/22/2016	1.1423		8.4662					
3/23/2016							9.0208	
3/31/2016					202.982			
5/19/2016			10				10	
5/23/2016	1.44							
5/25/2016					95.7			
7/21/2016			13				10	
7/25/2016	1.1							
7/27/2016					110			
9/14/2016							9.7	
9/15/2016	0.99 (J)							
11/9/2016	1.1							
11/10/2016							8.1	
1/17/2017	0.85 (J)		7.6				15	
3/16/2017	1.2						9.1	
4/27/2017	<1		8				9.6	
7/18/2017			6					
8/1/2017			7.7					
10/3/2017	1.4		7		150		9.8	
1/19/2018		1.1		5.7				
1/22/2018								10
6/19/2018		0.94 (J)		7				10
6/20/2018						100		
9/25/2018		1.3		9.1				9.7
1/17/2019								9.4
1/18/2019				6.4		34		
1/21/2019		1.6						
6/24/2019								10
6/25/2019		2.2		26		<1		
9/10/2019		1.3		9.2				11
9/11/2019						43		

# Prediction Limit

Constituent: Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
3/29/2016			<1		19.1889		2.8316	
3/30/2016	24.0688							
5/25/2016	20.1		<1		19.8		2.62	
7/22/2016					20			
7/25/2016			<1					
7/26/2016							2.7	
7/27/2016	28							
9/15/2016					20		2.6	
9/16/2016	29							
9/19/2016			<1					
11/16/2016			<1		19			
11/17/2016	40						2.2	
1/31/2017			3.7		23		2.6	
2/1/2017	40							
3/23/2017			1.5		23		2.6	
3/24/2017	28							
5/2/2017			<1					
5/3/2017	38				22		2.6	
10/4/2017	45		<1		22			
10/5/2017							2.5	
1/24/2018				<1		22		
1/25/2018		33						2.5
6/20/2018				<1				2.5
6/21/2018		21						
6/26/2018						23		
9/27/2018		28		<1				
9/28/2018						24		
10/2/2018								2.7
1/22/2019								2.8
1/24/2019				0.77 (J)				
1/25/2019						25		
1/31/2019		20						
6/25/2019								3
6/26/2019		13		0.47 (J)		25		
9/11/2019						26		
9/12/2019								2.2
9/16/2019				<1				
9/17/2019		12						

# Prediction Limit

Constituent: Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17
3/30/2016	7.2023		1.7296		0.5433 (J)		0.8313 (J)	
5/25/2016	10.5		1.52		0.4393 (J)		0.195 (J)	
7/26/2016	38		1.2					
7/27/2016					<1		0.7 (J)	
9/15/2016	13							
9/16/2016					<1			
9/19/2016							<1	
9/20/2016			0.85 (J)					
11/17/2016	18		0.83 (J)		<1		0.75 (J)	
2/1/2017	8.2		1.9		<1		<1	
3/23/2017	10		1.6					
3/24/2017					<1		<1	
5/3/2017	10		1.3		<1		<1	
10/4/2017	22		1.4				<1	
10/5/2017					<1			
1/25/2018		9.9		1.4		<1		<1
6/20/2018		18		2.1		<1		
6/26/2018								<1
10/1/2018		11		1.4		<1		
10/2/2018								<1
1/22/2019		13		2				
1/24/2019								0.88 (J)
1/25/2019						0.66 (J)		
6/25/2019		13		2		0.84 (J)		1.1
9/11/2019						0.6 (J)		0.99 (J)
9/12/2019		22						
9/17/2019				1.4				

# Prediction Limit

Constituent: Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20	GWC-21	GWC-21
3/30/2016	0.6239 (J)		2.3237		1.0356		0.3269 (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							<1	
9/19/2016	<1		<1					
9/20/2016					0.83 (J)		<1	
11/17/2016	<1		<1		0.71 (J)		<1	
2/1/2017	<1							
2/2/2017			8.6		0.82 (J)		<1	
3/24/2017	<1		2.5					
3/28/2017					0.75 (J)		<1	
5/3/2017	<1		0.88 (J)					
5/4/2017					1.1		<1	
10/5/2017	<1		0.81 (J)					
10/6/2017					0.79 (J)		<1	
1/25/2018		<1		0.77 (J)				
1/26/2018						<1		<1
6/20/2018								<1
6/21/2018		<1		<1		1.3		
9/27/2018				<1		1.2		<1
9/28/2018		<1						
1/24/2019								<1
1/28/2019		0.69 (J)		1.2		0.9 (J)		
6/25/2019						0.99 (J)		<1
6/26/2019				0.88 (J)				
6/27/2019		0.85 (J)						
9/11/2019		0.7 (J)				1.1		0.42 (J)
9/12/2019				0.39 (J)				

# Prediction Limit

Constituent: Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25
3/28/2016							8.3151	
3/29/2016			0.5302 (J)					
3/30/2016					1.0189			
3/31/2016	0.3648 (J)							
5/25/2016			0.3659 (J)		0.6811 (J)			
5/26/2016	0.562 (J)						4.31	
7/26/2016	<1							
7/27/2016			<1		<1		6.1	
9/16/2016					<1			
9/19/2016							11	
9/20/2016	<1		<1					
11/15/2016							18	
11/17/2016	<1							
11/18/2016			<1		<1			
1/24/2017							26	
2/3/2017	<1		<1		<1			
3/23/2017							23	
3/28/2017	<1		<1					
3/29/2017					<1			
5/2/2017							27	
5/3/2017	<1							
5/4/2017			<1		<1			
10/5/2017	<1		<1		<1		16	
1/25/2018		<1		<1		<1		15
6/20/2018		<1		<1				
6/27/2018						<1		12
9/26/2018								12
9/28/2018						<1		
10/1/2018		<1		<1				
1/24/2019		0.81 (J)						1.4
1/25/2019				0.38 (J)				
1/31/2019						<1		
6/25/2019		0.76 (J)						1.6
6/26/2019				0.64 (J)		0.71 (J)		
9/10/2019		<1						
9/11/2019						0.59 (J)		5.7
9/12/2019				0.54 (J)				



# Prediction Limit

Constituent: Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26	GWC-27	GWC-27	GWC-30	GWC-30	GWC-31	GWC-31
3/23/2016			1.3897		1.3729			
3/24/2016	0.4337 (J)							
3/30/2016							15.0114	
5/20/2016					1.31			
5/24/2016			0.598 (J)					
5/25/2016	0.3421 (J)						19.1	
7/21/2016					1.3			
7/26/2016	<1		3					
9/19/2016	<1		1.6					
9/20/2016					1.3			
11/11/2016			3					
11/14/2016	<1				1.1			
1/19/2017	<1							
1/20/2017			2.2					
1/24/2017					1.3			
1/25/2017							13	
3/16/2017	<1		0.95 (J)					
3/17/2017					1.3			
4/28/2017			2.1					
5/1/2017	<1				1.2			
7/19/2017							15	
10/3/2017			<1					
10/4/2017	<1				1.2			
10/6/2017							19	
1/19/2018				1.4				
1/22/2018		<1						
1/23/2018								15
1/24/2018						1		
6/21/2018						1		
6/27/2018		<1		1.7				14
9/27/2018		<1		2.5				
10/3/2018						1.2		18
1/24/2019		0.57 (J)		0.39 (J)				
1/30/2019						1.2		
1/31/2019								10
6/25/2019		0.78 (J)						
6/26/2019				3.2				9.9
6/27/2019						1.7		
9/10/2019						1.3		
9/12/2019		<1		0.82 (J)				

# Prediction Limit

Constituent: Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35
3/23/2016	12.8473		19.6956					
3/24/2016					1.8782		2.7482	
5/23/2016					1.44		2.76	
5/24/2016	13.5							
7/21/2016					1.6		2.8	
7/22/2016	12							
9/15/2016					1.6		2.4	
9/16/2016	12							
11/15/2016	13				1.3		2.3	
11/17/2016			22					
1/25/2017			50		1.5			
1/26/2017	9.2						2.7	
3/22/2017					1.5		2.4	
3/23/2017			28					
3/24/2017	9.2							
5/1/2017			25		1.4			
5/2/2017	9						2.5	
7/19/2017			22					
8/4/2017			25					
8/24/2017			19					
10/3/2017					1.4		2.5	
10/5/2017			18					
10/6/2017	8.8							
1/23/2018		9.4		14		1.2		2.4
6/19/2018								2.7
6/20/2018						1.7		
6/26/2018		12		9.2				
10/1/2018								2.8
10/2/2018		9.7		11		1.4		
1/21/2019								2.7
1/28/2019						1.6		
1/30/2019		11		14				
6/26/2019				10		1.9		2.8
6/27/2019		9.9						
9/11/2019						1.6		
9/12/2019		9.7		12				2.3

# Prediction Limit

Constituent: Sulfate Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7	GWC-8	GWC-8
3/28/2016	19.9405		11.0351					
3/29/2016							15.2958	
5/23/2016	21							
5/24/2016			12.8		85.8		18.5	
7/21/2016	17		16					
7/22/2016					86			
7/26/2016							19	
9/15/2016	16		15		84			
9/19/2016							31	
11/15/2016	15							
11/16/2016			15		89		36	
1/26/2017	13		16		85		49	
3/22/2017	13		13		81			
3/23/2017							21	
5/2/2017	25		10		76			
5/3/2017							17	
10/3/2017	21		11		74			
10/5/2017							16	
1/23/2018		26		10		57		
1/24/2018								10
6/21/2018								11
6/25/2018		30		11		62		
9/25/2018				14				
9/26/2018								20
10/2/2018						60		
10/3/2018		29						
1/21/2019						64		
1/22/2019								12
1/30/2019		31		9.7				
6/25/2019						59		14
6/26/2019		31		9.3				
9/10/2019						52		14
9/12/2019		34		14				

# Prediction Limit

Constituent: Sulfate, Total Dissolved Solids Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9	GWA-1	GWA-1	GWA-2	GWA-2	GWA-28	GWA-28
3/22/2016							69	
3/23/2016			<5		41			
3/29/2016	14.6203							
5/20/2016			<5					
5/23/2016							92	
5/24/2016	14.7				51			
7/21/2016			14					
7/25/2016	20						38	
7/26/2016					8			
9/15/2016			12				64	
9/16/2016					40			
9/19/2016	22							
11/9/2016							80	
11/10/2016					58			
11/11/2016			4 (J)					
11/16/2016	22							
1/17/2017							54	
1/19/2017			<5		28			
1/31/2017	44							
3/16/2017			14				40	
3/17/2017					<5			
3/23/2017	29							
4/27/2017							84	
4/28/2017			<5		<5			
5/2/2017	18							
10/3/2017	17				36		70	
10/4/2017			34					
1/19/2018				<5		10		36
1/24/2018		14						
6/19/2018				16		<5		70
6/21/2018		13						
9/25/2018				24		32		36
9/26/2018		17						
1/17/2019				20		46		
1/21/2019								58
1/22/2019		12						
6/24/2019				21		72		
6/25/2019		11						88
9/9/2019				16				
9/10/2019						52		86
9/16/2019		16						



# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14
3/29/2016	163		151		48			
3/30/2016							165	
5/25/2016	197		175		61		233	
7/22/2016			130					
7/25/2016	220							
7/26/2016					40		330	
9/15/2016			160		54		350	
9/19/2016	240							
11/16/2016	200		230					
11/17/2016					64		440	
1/31/2017	110		170		36			
2/1/2017							150	
3/23/2017	140		220		76		250	
5/2/2017	180							
5/3/2017			150		32		190	
10/4/2017	210		190				520	
10/5/2017					42			
1/24/2018		130		210				
1/25/2018						48		160
6/20/2018		140				12		310
6/26/2018				200				
9/27/2018		130						
9/28/2018				180				
10/1/2018								250
10/2/2018						72		
1/22/2019						42		200
1/24/2019		<10						
1/25/2019				170				
6/25/2019						56		280
6/26/2019		87		140				
9/11/2019				220				
9/12/2019						73		470
9/16/2019		190						

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17	GWC-18	GWC-18
3/30/2016	94		75		97		84	
5/25/2016	90		91		97			
5/26/2016							80	
7/25/2016							54	
7/26/2016	64							
7/27/2016			76		110			
9/16/2016			78					
9/19/2016					110		96	
9/20/2016	72							
11/17/2016	46		110		74		42	
2/1/2017	70		70		100		66	
3/23/2017	100							
3/24/2017			100		110		88	
5/3/2017	84		18		28		64	
10/4/2017	60				84			
10/5/2017			10				50	
1/25/2018		86		56		72		70
6/20/2018		64		84				
6/21/2018								84
6/26/2018						72		
9/28/2018								74
10/1/2018		94		86				
10/2/2018						120		
1/22/2019		79						
1/24/2019						82		
1/25/2019				51				
1/28/2019								77
6/25/2019		99		91		110		
6/27/2019								77
9/11/2019				85		92		64
9/17/2019		75						

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22
3/30/2016	69		88		42			
3/31/2016							102	
5/26/2016	75		65		42		108	
7/25/2016	44		80					
7/26/2016					48		82	
9/19/2016	74							
9/20/2016			84		56		100	
11/17/2016	34		84		34		110	
2/2/2017	96		100		36			
2/3/2017							110	
3/24/2017	82							
3/28/2017			82		48		98	
5/3/2017	42						98	
5/4/2017			88		22			
10/5/2017	50						<5	
10/6/2017			120		70			
1/25/2018		60						98
1/26/2018				96		52		
6/20/2018						36		94
6/21/2018		76		78				
9/27/2018		62		110		56		
10/1/2018								100
1/24/2019						42		100
1/28/2019		69		95				
6/25/2019				100		63		110
6/26/2019		<10						
9/10/2019								120
9/11/2019				74		16		
9/12/2019		87						



# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 11/14/2019 5:08 PM View: CCR IntraWell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23	GWC-24	GWC-24	GWC-25	GWC-25	GWC-26	GWC-26
3/24/2016							48	
3/28/2016					90			
3/29/2016	53							
3/30/2016			39					
5/25/2016	33		30				42	
5/26/2016					75			
7/26/2016							20	
7/27/2016	30		28		78			
9/16/2016			22					
9/19/2016					100		48	
9/20/2016	42							
11/14/2016							40	
11/15/2016					110			
11/18/2016	4 (J)		28					
1/19/2017							10	
1/24/2017					96			
2/3/2017	20		26					
3/16/2017							<5	
3/23/2017					96			
3/28/2017	38							
3/29/2017			28					
5/1/2017							10	
5/2/2017					100			
5/4/2017	54		30					
10/4/2017							60	
10/5/2017	26		12		86			
1/22/2018								40
1/25/2018		32		20		100		
6/20/2018		54						
6/27/2018				24		60		8
9/26/2018						60		
9/27/2018								86
9/28/2018				16				
10/1/2018		140						
1/24/2019						54		34
1/25/2019		<10						
1/31/2019				30				
6/25/2019						58		49
6/26/2019		44		<10				
9/11/2019				<10		53		
9/12/2019		58						61

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27	GWC-30	GWC-30	GWC-31	GWC-31	GWC-32	GWC-32
3/23/2016	46		51				75	
3/30/2016					128			
5/20/2016			58					
5/24/2016	34						83	
5/25/2016					118			
7/21/2016			42					
7/22/2016							76	
7/26/2016	16							
9/16/2016							84	
9/19/2016	52							
9/20/2016			52					
11/11/2016	56							
11/14/2016			38					
11/15/2016							94	
1/20/2017	38							
1/24/2017			36					
1/25/2017					120			
1/26/2017							68	
3/16/2017	32							
3/17/2017			48					
3/24/2017							110	
4/28/2017	46							
5/1/2017			10					
5/2/2017							76	
7/19/2017					100			
10/3/2017	12							
10/4/2017			74					
10/6/2017					120		130	
1/19/2018		<10						
1/23/2018						70		110
1/24/2018				10				
6/21/2018				28				
6/26/2018								66
6/27/2018		54				92		
9/27/2018		58						
10/2/2018								100
10/3/2018				42		86		
1/24/2019		<10						
1/30/2019				53				91
1/31/2019						160		
6/26/2019		<10				110		
6/27/2019				30				47
9/10/2019				46				
9/12/2019		50						100

# Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 11/14/2019 5:08 PM View: CCR Intrawell PL  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33	GWC-34	GWC-34	GWC-35	GWC-35	GWC-5	GWC-5
3/23/2016	80							
3/24/2016			55		33			
3/28/2016							172	
5/23/2016			61		48		189	
7/21/2016			32		36		170	
9/15/2016			62		38		180	
11/15/2016			56		44		180	
11/17/2016	140							
1/25/2017	160		<5					
1/26/2017					<5		120	
3/22/2017			58		34		110	
3/23/2017	120							
5/1/2017	72		22					
5/2/2017					4 (J)		140	
7/19/2017	120							
8/4/2017	90							
8/24/2017	82							
10/3/2017			16		26		170	
10/5/2017	74							
1/23/2018		100		64		56		210
6/19/2018						28		
6/20/2018				<5				
6/25/2018								200
6/26/2018		100						
10/1/2018						40		
10/2/2018		120		98				
10/3/2018								230
1/21/2019						17		
1/28/2019				33				
1/30/2019		100						220
6/26/2019		100		61		46		120
9/11/2019				20				
9/12/2019		110				51		230



# Intrawell Prediction Limit Summary - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-14	0.117	n/a	9/12/2019	0.32	Yes	19	n/a	n/a	5.263	n/a	n/a	0.0006785	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-16	0.019	n/a	9/11/2019	0.02	Yes	23	n/a	n/a	0	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-18	0.0383	n/a	9/11/2019	0.04	Yes	23	0.03275	0.002744	0	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-25	0.05225	n/a	9/11/2019	0.056	Yes	22	0.03101	0.0104	0	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-34	0.01295	n/a	9/11/2019	0.014	Yes	22	0.01108	0.000916	0	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-6	0.06792	n/a	9/12/2019	0.074	Yes	23	0.05446	0.006649	0	None	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWC-32	0.001638	n/a	9/12/2019	0.0019	Yes	23	0.0009112	0.0003589	30.43	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Chromium (mg/L)	GWC-13	0.0025	n/a	9/12/2019	0.0027	Yes	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-20	0.0025	n/a	9/11/2019	0.0027	Yes	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-26	0.0025	n/a	9/12/2019	0.0033	Yes	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-34	0.0025	n/a	9/11/2019	0.0034	Yes	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-35	0.0025	n/a	9/12/2019	0.0026	Yes	23	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	9/12/2019	0.0033	Yes	22	n/a	n/a	86.36	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-6	0.0025	n/a	9/12/2019	0.0049	Yes	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-25	0.0034	n/a	9/11/2019	0.0072	Yes	15	n/a	n/a	73.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-31	0.0048	n/a	9/11/2019	0.0063	Yes	12	n/a	n/a	58.33	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-29	0.0002	n/a	9/10/2019	0.00021	Yes	21	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-8	0.0002	n/a	9/10/2019	0.0004	Yes	23	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-20	0.001	n/a	9/11/2019	0.001	Yes	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-25	0.01984	n/a	9/11/2019	0.024	Yes	15	0.07554	0.0286	33.33	Kaplan-Meier	sqrt(x)	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-6	0.00721	n/a	9/12/2019	0.0099	Yes	16	0.004412	0.001261	6.25	None	No	0.0001135	Param Intra 1 of 3
Silver (mg/L)	GWC-31	0.001	n/a	9/11/2019	0.0078	Yes	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-12	0.001	n/a	9/11/2019	0.0011	Yes	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-13	0.005	n/a	9/12/2019	0.0085	Yes	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	9/12/2019	0.019	Yes	16	0.0662	0.02159	18.75	Kaplan-Meier	sqrt(x)	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-17	0.005	n/a	9/11/2019	0.012	Yes	16	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-25	0.02893	n/a	9/11/2019	0.037	Yes	15	0.01086	0.007912	6.667	None	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-30	0.009	n/a	9/10/2019	0.019	Yes	16	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	9/11/2019	0.081	Yes	12	0.01699	0.008457	8.333	None	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-34	0.005	n/a	9/11/2019	0.0068	Yes	16	n/a	n/a	68.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-5	0.005	n/a	9/12/2019	0.0067	Yes	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	9/12/2019	0.049	Yes	16	n/a	n/a	56.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-1	0.002	n/a	9/9/2019	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)	GWA-2	0.0021	n/a	9/10/2019	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	9/10/2019	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	9/10/2019	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	9/11/2019	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)	GWA-4	0.002	n/a	9/10/2019	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-10	0.002	n/a	9/17/2019	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	9/16/2019	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-12	0.002	n/a	9/11/2019	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-13	0.002	n/a	9/12/2019	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-14	0.002	n/a	9/12/2019	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-15	0.002	n/a	9/17/2019	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-16	0.002	n/a	9/11/2019	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-17	0.002	n/a	9/11/2019	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-18	0.0022	n/a	9/11/2019	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-19	0.002	n/a	9/12/2019	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-20	0.002	n/a	9/11/2019	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-21	0.002	n/a	9/11/2019	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-22	0.002	n/a	9/10/2019	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	9/12/2019	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	9/11/2019	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	9/11/2019	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	9/12/2019	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	9/12/2019	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	9/10/2019	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	9/11/2019	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	9/12/2019	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	9/12/2019	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-34	0.002	n/a	9/11/2019	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-35	0.002	n/a	9/12/2019	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-5	0.0024	n/a	9/12/2019	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	9/12/2019	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-7	0.002	n/a	9/10/2019	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-8	0.002	n/a	9/10/2019	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-9	0.002	n/a	9/16/2019	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	9/9/2019	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	9/10/2019	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	9/10/2019	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	9/10/2019	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	9/11/2019	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	9/10/2019	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-10	0.001	n/a	9/17/2019	0.001ND	No	12	n/a	n/a	n/a	100	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-11	0.005	n/a	9/16/2019	0.0018	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	9/11/2019	0.00036	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	9/12/2019	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	9/12/2019	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-15	0.001	n/a	9/17/2019	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-16	0.001	n/a	9/11/2019	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	9/11/2019	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	9/11/2019	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-19	0.0013	n/a	9/12/2019	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	9/11/2019	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	0.0013	n/a	9/11/2019	0.00047	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	9/10/2019	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-23	0.001	n/a	9/12/2019	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	9/11/2019	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	9/11/2019	0.00041	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	9/12/2019	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-27	0.001	n/a	9/12/2019	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-30	0.001	n/a	9/10/2019	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-31	0.0012	n/a	9/11/2019	0.00032	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	9/12/2019	0.00034	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	9/12/2019	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	9/11/2019	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	9/12/2019	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	9/12/2019	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	9/12/2019	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	9/10/2019	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	9/10/2019	0.00043	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	9/16/2019	0.00069	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	9/9/2019	0.012	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	9/10/2019	0.015	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	9/10/2019	0.0022	No	23	n/a	n/a	39.13	n/a	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Barium (mg/L)	GWA-29	0.004768	n/a	9/10/2019	0.0033	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	9/11/2019	0.094	No	9	n/a	n/a	0	n/a	n/a	n/a	0.004675	NP Intra (normality) 1 of 3
Barium (mg/L)	GWA-4	0.1824	n/a	9/10/2019	0.16	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	9/17/2019	0.026	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	9/16/2019	0.35	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	9/11/2019	0.022	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	9/12/2019	0.0054	No	23	0.003342	0.0005516	0	None	None	No	0.0001135	Param Intra 1 of 3
<b>Barium (mg/L)</b>	<b>GWC-14</b>	<b>0.117</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.32</b>	<b>Yes</b>	<b>19</b>	<b>n/a</b>	<b>n/a</b>	<b>5.263</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006785</b>	<b>NP Intra (normality) 1 of 3</b>
Barium (mg/L)	GWC-15	0.01334	n/a	9/17/2019	0.0072	No	23	0.009012	0.002137	0	None	None	No	0.0001135	Param Intra 1 of 3
<b>Barium (mg/L)</b>	<b>GWC-16</b>	<b>0.019</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.02</b>	<b>Yes</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (normality) 1 of 3</b>
Barium (mg/L)	GWC-17	0.01934	n/a	9/11/2019	0.018	No	23	0.01612	0.001592	0	None	None	No	0.0001135	Param Intra 1 of 3
<b>Barium (mg/L)</b>	<b>GWC-18</b>	<b>0.0383</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.04</b>	<b>Yes</b>	<b>23</b>	<b>0.03275</b>	<b>0.002744</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Barium (mg/L)	GWC-19	0.1138	n/a	9/12/2019	0.058	No	23	0.06187	0.02567	4.348	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-20	0.03851	n/a	9/11/2019	0.035	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	9/11/2019	0.028	No	23	0.0203	0.007161	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-22	0.02915	n/a	9/10/2019	0.027	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	9/12/2019	0.0053	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	9/11/2019	0.02	No	14	0.01771	0.0072	0	None	None	No	0.0001135	Param Intra 1 of 3
<b>Barium (mg/L)</b>	<b>GWC-25</b>	<b>0.05225</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.056</b>	<b>Yes</b>	<b>22</b>	<b>0.03101</b>	<b>0.0104</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Barium (mg/L)	GWC-26	0.04031	n/a	9/12/2019	0.039	No	23	0.001086	0.0002664	0	None	None	x^2	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-27	0.01993	n/a	9/12/2019	0.012	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	9/10/2019	0.0098	No	23	0.08407	0.006692	0	None	None	sqrt(x)	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-31	0.008406	n/a	9/11/2019	0.0055	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	9/12/2019	0.002	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	9/12/2019	0.009	No	22	0.008309	0.003018	4.545	None	None	No	0.0001135	Param Intra 1 of 3
<b>Barium (mg/L)</b>	<b>GWC-34</b>	<b>0.01295</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.014</b>	<b>Yes</b>	<b>22</b>	<b>0.01108</b>	<b>0.000916</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Barium (mg/L)	GWC-35	0.02169	n/a	9/12/2019	0.02	No	23	0.01981	0.0009285	0	None	None	No	0.0001135	Param Intra 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-5	0.0325	n/a	9/12/2019	0.03	No	23	0.02373	0.004334	0	None	No	0.0001135	Param Intra 1 of 3
<b>Barium (mg/L)</b>	<b>GWC-6</b>	<b>0.06792</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.074</b>	<b>Yes</b>	<b>23</b>	<b>0.05446</b>	<b>0.006649</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Barium (mg/L)	GWC-7	0.1475	n/a	9/10/2019	0.086	No	23	0.09785	0.02452	0	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-8	0.1142	n/a	9/10/2019	0.066	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	9/16/2019	0.18	No	23	0.1338	0.03988	0	None	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWA-1	0.0025	n/a	9/9/2019	0.00019	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-2	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-28	0.0025	n/a	9/10/2019	0.00049	No	23	n/a	n/a	43.48	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWA-29	0.002857	n/a	9/10/2019	0.0023	No	21	0.002025	0.0004034	9.524	None	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWA-3	0.001	n/a	9/11/2019	0.0003	No	9	n/a	n/a	100	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-4	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-10	0.001	n/a	9/17/2019	0.001ND	No	12	n/a	n/a	100	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-11	0.001	n/a	9/16/2019	0.001ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-12	0.001	n/a	9/11/2019	0.00024	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-13	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-14	0.0025	n/a	9/12/2019	0.00092	No	23	n/a	n/a	65.22	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-15	0.001	n/a	9/17/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-16	0.001	n/a	9/11/2019	0.00024	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-17	0.001	n/a	9/11/2019	0.00018	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-18	0.001	n/a	9/11/2019	0.00019	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-19	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-20	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-21	0.001	n/a	9/11/2019	0.0002	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-22	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-23	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-24	0.001	n/a	9/11/2019	0.001ND	No	14	n/a	n/a	78.57	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-25	0.001	n/a	9/11/2019	0.00019	No	22	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-26	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-27	0.007589	n/a	9/12/2019	0.0012	No	23	0.003666	0.001938	13.04	None	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWC-30	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-31	0.003	n/a	9/11/2019	0.00092	No	18	n/a	n/a	33.33	n/a	n/a	0.0007943	NP Intra (normality) 1 of 3
<b>Beryllium (mg/L)</b>	<b>GWC-32</b>	<b>0.001638</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.0019</b>	<b>Yes</b>	<b>23</b>	<b>0.0009112</b>	<b>0.0003589</b>	<b>30.43</b>	<b>Kaplan-Meier</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Beryllium (mg/L)	GWC-33	0.0025	n/a	9/12/2019	0.00044	No	22	n/a	n/a	40.91	n/a	n/a	0.0004594	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-34	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-35	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-5	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-6	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-7	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-8	0.001	n/a	9/10/2019	0.001ND	No	23	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	9/16/2019	0.001ND	No	23	n/a	n/a	82.61	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-1	0.001	n/a	9/9/2019	0.001ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-2	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-28	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-29	0.001	n/a	9/10/2019	0.001ND	No	21	n/a	n/a	95.24	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-3	0.001	n/a	9/11/2019	0.001ND	No	9	n/a	n/a	66.67	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-4	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-10	0.001	n/a	9/17/2019	0.001ND	No	12	n/a	n/a	100	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-11	0.0022	n/a	9/16/2019	0.001ND	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-12	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-13	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3



# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	GWC-14	0.0025	n/a	9/12/2019	0.00052	No	23	n/a	n/a	73.91	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-15	0.001	n/a	9/17/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-16	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-17	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-18	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-19	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-20	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-21	0.001	n/a	9/11/2019	0.00018	No	23	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	9/10/2019	0.00046	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-23	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-24	0.0021	n/a	9/11/2019	0.001ND	No	14	n/a	n/a	85.71	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-25	0.001	n/a	9/11/2019	0.0002	No	22	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-26	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-27	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-30	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-31	0.001	n/a	9/11/2019	0.001ND	No	18	n/a	n/a	100	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-32	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-33	0.001	n/a	9/12/2019	0.001ND	No	22	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-34	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-35	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-5	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-6	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-7	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-8	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-9	0.001	n/a	9/16/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-1	0.0025	n/a	9/9/2019	0.0017	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-2	0.0025	n/a	9/10/2019	0.0019	No	23	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	9/10/2019	0.0018	No	22	n/a	n/a	90.91	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-29	0.0025	n/a	9/10/2019	0.0019	No	20	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	9/11/2019	0.002ND	No	9	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	9/10/2019	0.002ND	No	23	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	9/17/2019	0.002ND	No	12	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	9/16/2019	0.0035	No	23	n/a	n/a	17.39	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-12	0.0025	n/a	9/11/2019	0.0023	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-13</b>	<b>0.0025</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.0027</b>	<b>Yes</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>	<b>95.65</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-14	0.0025	n/a	9/12/2019	0.002	No	23	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	9/17/2019	0.002ND	No	23	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	9/11/2019	0.0043	No	23	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	9/11/2019	0.002ND	No	23	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	9/11/2019	0.002ND	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-19	0.0025	n/a	9/12/2019	0.0024	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-20</b>	<b>0.0025</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0027</b>	<b>Yes</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>	<b>91.3</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-21	0.0025	n/a	9/11/2019	0.0022	No	23	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	9/10/2019	0.0026	No	23	n/a	n/a	60.87	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-23	0.0025	n/a	9/12/2019	0.0024	No	23	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-24	0.0025	n/a	9/11/2019	0.0023	No	14	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	9/11/2019	0.0034	No	20	n/a	n/a	75	n/a	n/a	0.0005627	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-26</b>	<b>0.0025</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.0033</b>	<b>Yes</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>	<b>95.65</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-27	0.0025	n/a	9/12/2019	0.0024	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-30	0.0025	n/a	9/10/2019	0.0019	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-31	0.008613	n/a	9/11/2019	0.0084	No	18	-5.991	0.575	16.67	Kaplan-Meier	ln(x)	0.0001135	Param Intra 1 of 3
Chromium (mg/L)	GWC-32	0.0025	n/a	9/12/2019	0.0024	No	22	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	9/12/2019	0.0032	No	22	n/a	n/a	77.27	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
<b>Chromium (mg/L)</b>	<b>GWC-34</b>	<b>0.0025</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0034</b>	<b>Yes</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>	<b>100</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
<b>Chromium (mg/L)</b>	<b>GWC-35</b>	<b>0.0025</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.0026</b>	<b>Yes</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>	<b>100</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
<b>Chromium (mg/L)</b>	<b>GWC-5</b>	<b>0.0025</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.0033</b>	<b>Yes</b>	<b>22</b>	<b>n/a</b>	<b>n/a</b>	<b>86.36</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004594</b>	<b>NP Intra (NDs) 1 of 3</b>
<b>Chromium (mg/L)</b>	<b>GWC-6</b>	<b>0.0025</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.0049</b>	<b>Yes</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>	<b>95.65</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Chromium (mg/L)	GWC-7	0.002	n/a	9/10/2019	0.002ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-8	0.0025	n/a	9/10/2019	0.0018	No	23	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	9/16/2019	0.0027	No	23	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	9/9/2019	0.00019	No	23	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	9/10/2019	0.00029	No	23	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-28	0.0005	n/a	9/10/2019	0.0005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-29	0.0025	n/a	9/10/2019	0.000089	No	21	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	9/11/2019	0.00017	No	9	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	9/10/2019	0.0062	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	9/17/2019	0.006	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	9/16/2019	0.0034	No	23	0.008102	0.00353	0	None	No	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-12	0.0025	n/a	9/11/2019	0.00017	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-13	0.0005	n/a	9/12/2019	0.0005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-14	0.3997	n/a	9/12/2019	0.013	No	23	0.2391	0.1942	13.04	None	sqrt(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-15	0.0018	n/a	9/17/2019	0.0005ND	No	23	n/a	n/a	65.22	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-16	0.0005	n/a	9/11/2019	0.0005ND	No	22	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-17	0.0005	n/a	9/11/2019	0.0005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-18	0.0005	n/a	9/11/2019	0.0005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-19	0.003104	n/a	9/12/2019	0.00035	No	22	0.001198	0.000933	40.91	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-20	0.0011	n/a	9/11/2019	0.0005ND	No	23	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	9/11/2019	0.0017	No	23	0.001925	0.001446	30.43	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-22	0.0005	n/a	9/10/2019	0.0005ND	No	23	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	9/12/2019	0.000093	No	21	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	9/11/2019	0.0013	No	14	-6.342	0.9191	14.29	None	ln(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-25	0.04937	n/a	9/11/2019	0.013	No	22	0.1123	0.05377	9.091	None	sqrt(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-26	0.0025	n/a	9/12/2019	0.00012	No	23	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	9/12/2019	0.0022	No	23	n/a	n/a	17.39	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-30	0.0005	n/a	9/10/2019	0.0005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-31	0.0015	n/a	9/11/2019	0.00044	No	18	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	9/12/2019	0.00087	No	23	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	9/12/2019	0.00083	No	22	0.05328	0.02697	18.18	Kaplan-Meier	sqrt(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-34	0.0005	n/a	9/11/2019	0.00011	No	22	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	9/12/2019	0.00027	No	23	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	9/12/2019	0.0062	No	23	0.1233	0.04404	0	None	sqrt(x)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-6	0.037	n/a	9/12/2019	0.019	No	23	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	9/10/2019	0.0035	No	23	0.1738	0.0617	17.39	Kaplan-Meier	x^(1/3)	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-8	0.07133	n/a	9/10/2019	0.041	No	21	0.03588	0.01719	0	None	No	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-9	0.1558	n/a	9/16/2019	0.042	No	22	0.2353	0.07802	4.545	None	sqrt(x)	0.0001135	Param Intra 1 of 3
Copper (mg/L)	GWA-1	0.002	n/a	9/9/2019	0.002ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-2	0.002	n/a	9/10/2019	0.0014	No	16	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	9/10/2019	0.002ND	No	16	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	9/10/2019	0.0074	No	16	0.007974	0.003538	18.75	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Copper (mg/L)	GWA-3	0.002	n/a	9/11/2019	0.0015	No	5	n/a	n/a	80	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper (mg/L)	GWA-4	0.002	n/a	9/10/2019	0.002ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-10	0.0025	n/a	9/17/2019	0.0007	No	5	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	9/16/2019	0.002ND	No	16	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	9/11/2019	0.00096	No	16	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	9/12/2019	0.002ND	No	16	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-14	0.0025	n/a	9/12/2019	0.0017	No	15	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	9/17/2019	0.002ND	No	16	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	9/11/2019	0.00065	No	16	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	9/11/2019	0.00066	No	16	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-18	0.002	n/a	9/11/2019	0.002ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-19	0.002	n/a	9/12/2019	0.002ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-20	0.0025	n/a	9/11/2019	0.00085	No	15	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-21	0.002	n/a	9/11/2019	0.002ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-22	0.002	n/a	9/10/2019	0.001	No	16	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	9/12/2019	0.00068	No	16	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	9/11/2019	0.0013	No	7	n/a	n/a	71.43	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
<b>Copper (mg/L)</b>	<b>GWC-25</b>	<b>0.0034</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0072</b>	<b>Yes</b>	<b>15</b>	<b>n/a</b>	<b>n/a</b>	<b>73.33</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001313</b>	<b>NP Intra (NDs) 1 of 3</b>
Copper (mg/L)	GWC-26	0.0027	n/a	9/12/2019	0.001	No	16	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	9/12/2019	0.0011	No	15	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-30	0.002	n/a	9/10/2019	0.002ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
<b>Copper (mg/L)</b>	<b>GWC-31</b>	<b>0.0048</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0063</b>	<b>Yes</b>	<b>12</b>	<b>n/a</b>	<b>n/a</b>	<b>58.33</b>	<b>n/a</b>	<b>n/a</b>	<b>0.002173</b>	<b>NP Intra (NDs) 1 of 3</b>
Copper (mg/L)	GWC-32	0.002	n/a	9/12/2019	0.002ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-33	0.002	n/a	9/12/2019	0.002ND	No	15	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	9/11/2019	0.0013	No	16	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	9/12/2019	0.002ND	No	16	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	9/12/2019	0.002ND	No	16	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	9/12/2019	0.002ND	No	16	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-7	0.002	n/a	9/10/2019	0.002ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-8	0.0035	n/a	9/10/2019	0.00065	No	16	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	9/16/2019	0.002ND	No	16	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-1	0.001	n/a	9/9/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-2	0.001	n/a	9/10/2019	0.00014	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-28	0.001	n/a	9/10/2019	0.001ND	No	23	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	9/10/2019	0.00028	No	21	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	9/11/2019	0.00017	No	9	n/a	n/a	100	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-4	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-10	0.0013	n/a	9/17/2019	0.00014	No	12	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	9/16/2019	0.001ND	No	23	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	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-13	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-14	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-15	0.001	n/a	9/17/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-16	0.001	n/a	9/11/2019	0.001ND	No	23	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	9/11/2019	0.001ND	No	23	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	9/11/2019	0.001ND	No	22	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	9/12/2019	0.001ND	No	23	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	9/11/2019	0.001ND	No	22	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	9/11/2019	0.00017	No	23	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	9/10/2019	0.001ND	No	23	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	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-24	0.0013	n/a	9/11/2019	0.00015	No	14	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	9/11/2019	0.00024	No	21	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	9/12/2019	0.001ND	No	23	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	9/12/2019	0.00016	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-30	0.001	n/a	9/10/2019	0.001ND	No	23	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	9/11/2019	0.0013	No	18	n/a	n/a	66.67	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-32	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-33	0.001	n/a	9/12/2019	0.00031	No	22	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	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-35	0.001	n/a	9/12/2019	0.001ND	No	23	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	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-6	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-7	0.001	n/a	9/10/2019	0.001ND	No	23	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	9/10/2019	0.001ND	No	23	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	9/16/2019	0.001ND	No	23	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	9/9/2019	0.0002ND	No	23	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	9/10/2019	0.0002ND	No	23	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	9/10/2019	0.0002ND	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Mercury (mg/L)</b>	<b>GWA-29</b>	<b>0.0002</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>0.00021</b>	<b>Yes</b>	<b>21</b>	<b>n/a</b>	<b>n/a</b>	<b>100</b>	<b>n/a</b>	<b>n/a</b>	<b>0.000511</b>	<b>NP Intra (NDs) 1 of 3</b>
Mercury (mg/L)	GWA-3	0.0002	n/a	9/11/2019	0.0002ND	No	9	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	9/10/2019	0.0002ND	No	23	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	9/17/2019	0.0002ND	No	12	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	9/16/2019	0.0002ND	No	23	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	9/11/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	23	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	9/17/2019	0.0002ND	No	23	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	9/11/2019	0.0002ND	No	23	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	9/11/2019	0.0002ND	No	23	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	9/11/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	23	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	9/11/2019	0.0002ND	No	23	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	9/11/2019	0.0002ND	No	23	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	9/10/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	23	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	9/11/2019	0.0002ND	No	14	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	9/11/2019	0.0002ND	No	22	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	9/12/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	23	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	9/10/2019	0.00014	No	23	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	9/11/2019	0.0002ND	No	18	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	9/12/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	22	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	9/11/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	23	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	9/12/2019	0.0002ND	No	23	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	9/10/2019	0.0002ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
<b>Mercury (mg/L)</b>	<b>GWC-8</b>	<b>0.0002</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>0.0004</b>	<b>Yes</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>	<b>86.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004078</b>	<b>NP Intra (NDs) 1 of 3</b>
Mercury (mg/L)	GWC-9	0.0002	n/a	9/16/2019	0.0002ND	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Nickel (mg/L)	GWA-1	0.0025	n/a	9/9/2019	0.00099	No	16	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	9/10/2019	0.0014	No	16	n/a	n/a	68.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-28	0.0025	n/a	9/10/2019	0.00047	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	9/10/2019	0.0024	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	9/11/2019	0.0022	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	9/10/2019	0.0017	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	9/17/2019	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	9/16/2019	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-12	0.001	n/a	9/11/2019	0.00088	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-13	0.0025	n/a	9/12/2019	0.00055	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-14	0.018	n/a	9/12/2019	0.016	No	17	n/a	n/a	41.18	n/a	n/a	0.0009102	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-15	0.001	n/a	9/17/2019	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	9/11/2019	0.00077	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	9/11/2019	0.00092	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	9/11/2019	0.00066	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	9/12/2019	0.00044	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
<b>Nickel (mg/L)</b>	<b>GWC-20</b>	<b>0.001</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.001</b>	<b>Yes</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>	<b>100</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
Nickel (mg/L)	GWC-21	0.0025	n/a	9/11/2019	0.00066	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	9/10/2019	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-23	0.001	n/a	9/12/2019	0.00044	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	9/11/2019	0.0018	No	7	0.0025	0.0005657	14.29	None	No	0.0001135	Param Intra 1 of 3
<b>Nickel (mg/L)</b>	<b>GWC-25</b>	<b>0.01984</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.024</b>	<b>Yes</b>	<b>15</b>	<b>0.07554</b>	<b>0.0286</b>	<b>33.33</b>	<b>Kaplan-Meier</b>	<b>sqrt(x)</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Nickel (mg/L)	GWC-26	0.0025	n/a	9/12/2019	0.00081	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	9/12/2019	0.00044	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-30	0.001	n/a	9/10/2019	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	9/11/2019	0.01	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	9/12/2019	0.0013	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	9/12/2019	0.00078	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	9/11/2019	0.0014	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	9/12/2019	0.0012	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	9/12/2019	0.0085	No	16	0.000039980	0.000249525		Kaplan-Meier	x^2	0.0001135	Param Intra 1 of 3
<b>Nickel (mg/L)</b>	<b>GWC-6</b>	<b>0.00721</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.0099</b>	<b>Yes</b>	<b>16</b>	<b>0.004412</b>	<b>0.001261</b>	<b>6.25</b>	<b>None</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Nickel (mg/L)	GWC-7	0.02327	n/a	9/10/2019	0.0089	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	9/10/2019	0.0026	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	9/16/2019	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	9/9/2019	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-2	0.005	n/a	9/10/2019	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-28	0.005	n/a	9/10/2019	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	9/10/2019	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-3	0.005	n/a	9/11/2019	0.005ND	No	9	n/a	n/a	100	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-4	0.005	n/a	9/10/2019	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-10	0.005	n/a	9/17/2019	0.005ND	No	12	n/a	n/a	100	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-11	0.005	n/a	9/16/2019	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	9/11/2019	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	9/12/2019	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	9/12/2019	0.0032	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	9/17/2019	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	9/11/2019	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-17	0.005	n/a	9/11/2019	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-18	0.005	n/a	9/11/2019	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-19	0.005	n/a	9/12/2019	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-20	0.005	n/a	9/11/2019	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-21	0.005	n/a	9/11/2019	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	9/10/2019	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-23	0.005	n/a	9/12/2019	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-24	0.005	n/a	9/11/2019	0.005ND	No	14	n/a	n/a	100	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-25	0.005	n/a	9/11/2019	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	9/12/2019	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	9/12/2019	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	9/10/2019	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	9/11/2019	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	9/12/2019	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	9/12/2019	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-34	0.005	n/a	9/11/2019	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-35	0.005	n/a	9/12/2019	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	9/12/2019	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	9/12/2019	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-7	0.005	n/a	9/10/2019	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-8	0.005	n/a	9/10/2019	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-9	0.005	n/a	9/16/2019	0.005ND	No	22	n/a	n/a	81.82	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-1	0.001	n/a	9/9/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-2	0.001	n/a	9/10/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-28	0.001	n/a	9/10/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-29	0.002329	n/a	9/10/2019	0.0015	No	16	0.03226	0.007215	37.5	Kaplan-Meier	sqrt(x)	0.0001135	Param Intra 1 of 3
Silver (mg/L)	GWA-3	0.001	n/a	9/11/2019	0.001ND	No	5	n/a	n/a	100	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-4	0.001	n/a	9/10/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-10	0.001	n/a	9/17/2019	0.001ND	No	5	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	9/16/2019	0.001ND	No	16	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	9/11/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-13	0.001	n/a	9/12/2019	0.001ND	No	16	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	9/12/2019	0.001ND	No	16	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-15	0.001	n/a	9/17/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-16	0.001	n/a	9/11/2019	0.001ND	No	16	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	9/11/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-18	0.001	n/a	9/11/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-19	0.001	n/a	9/12/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-20	0.001	n/a	9/11/2019	0.001ND	No	16	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	9/11/2019	0.001ND	No	16	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	9/10/2019	0.001ND	No	16	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	9/12/2019	0.001ND	No	16	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	9/11/2019	0.001ND	No	7	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	9/11/2019	0.001ND	No	15	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	9/12/2019	0.001ND	No	16	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	9/12/2019	0.001ND	No	15	n/a	n/a	100	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-30	0.001	n/a	9/10/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
<b>Silver (mg/L)</b>	<b>GWC-31</b>	<b>0.001</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0078</b>	<b>Yes</b>	<b>11</b>	<b>n/a</b>	<b>n/a</b>	<b>54.55</b>	<b>n/a</b>	<b>n/a</b>	<b>0.002806</b>	<b>NP Intra (NDs) 1 of 3</b>
Silver (mg/L)	GWC-32	0.001	n/a	9/12/2019	0.001ND	No	16	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	9/12/2019	0.001ND	No	15	n/a	n/a	100	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-34	0.001	n/a	9/11/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-35	0.001	n/a	9/12/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Silver (mg/L)	GWC-5	0.001	n/a	9/12/2019	0.001ND	No	16	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	9/12/2019	0.001ND	No	16	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-7	0.001	n/a	9/10/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-8	0.001	n/a	9/10/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-9	0.001	n/a	9/16/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-1	0.0005	n/a	9/9/2019	0.00015	No	23	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	9/10/2019	0.001ND	No	22	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-28	0.001	n/a	9/10/2019	0.001ND	No	22	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-29	0.001	n/a	9/10/2019	0.001ND	No	20	n/a	n/a	100	n/a	n/a	0.0005627	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-3	0.001	n/a	9/11/2019	0.001ND	No	9	n/a	n/a	100	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-4	0.001	n/a	9/10/2019	0.001ND	No	23	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-10	0.001	n/a	9/17/2019	0.001ND	No	12	n/a	n/a	100	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-11	0.001	n/a	9/16/2019	0.001ND	No	21	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	9/11/2019	0.001ND	No	21	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-13	0.001	n/a	9/12/2019	0.001ND	No	21	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	9/12/2019	0.00047	No	22	0.0004118	0.0002469	31.82	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Thallium (mg/L)	GWC-15	0.001	n/a	9/17/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-16	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-17	0.001	n/a	9/11/2019	0.001ND	No	22	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-18	0.001	n/a	9/11/2019	0.001ND	No	23	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	9/12/2019	0.001ND	No	23	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-20	0.001	n/a	9/11/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-21	0.001	n/a	9/11/2019	0.00026	No	23	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	9/10/2019	0.001ND	No	23	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	9/12/2019	0.001ND	No	21	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	9/11/2019	0.00023	No	13	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	9/11/2019	0.00028	No	20	n/a	n/a	100	n/a	n/a	0.0005627	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-26	0.001	n/a	9/12/2019	0.001ND	No	21	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-27	0.0005	n/a	9/12/2019	0.00021	No	21	n/a	n/a	47.62	n/a	n/a	0.000511	NP Intra (normality) 1 of 3
Thallium (mg/L)	GWC-30	0.001	n/a	9/10/2019	0.001ND	No	21	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-31	0.001	n/a	9/11/2019	0.001ND	No	17	n/a	n/a	100	n/a	n/a	0.0009102	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-32	0.001	n/a	9/12/2019	0.001ND	No	21	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-33	0.001	n/a	9/12/2019	0.001ND	No	20	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	9/11/2019	0.001ND	No	22	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	9/12/2019	0.001ND	No	22	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-5	0.001	n/a	9/12/2019	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-6	0.001	n/a	9/12/2019	0.00017	No	23	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	9/10/2019	0.001ND	No	21	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	9/10/2019	0.001ND	No	21	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	9/16/2019	0.001ND	No	21	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	9/9/2019	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-2	0.0025	n/a	9/10/2019	0.0011	No	16	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-28	0.0025	n/a	9/10/2019	0.0012	No	16	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	9/10/2019	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)	GWA-3	0.0025	n/a	9/11/2019	0.0014	No	5	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	9/10/2019	0.001ND	No	16	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	9/17/2019	0.001ND	No	5	0.002	0.0009466	40	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Vanadium (mg/L)	GWC-11	0.0064	n/a	9/16/2019	0.0035	No	16	n/a	n/a	31.25	n/a	n/a	0.001026	NP Intra (normality) 1 of 3
<b>Vanadium (mg/L)</b>	<b>GWC-12</b>	<b>0.001</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0011</b>	<b>Yes</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>	<b>100</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
Vanadium (mg/L)	GWC-13	0.0025	n/a	9/12/2019	0.0015	No	16	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3

# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWC-14	0.002	n/a	9/12/2019	0.0012	No	16	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	9/17/2019	0.0013	No	16	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	9/11/2019	0.0048	No	16	0.003868	0.001039	37.5	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Vanadium (mg/L)	GWC-17	0.004392	n/a	9/11/2019	0.0023	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	9/11/2019	0.0017	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	9/12/2019	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-20	0.005	n/a	9/11/2019	0.0027	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	9/11/2019	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	9/10/2019	0.0082	No	16	0.006429	0.0009517	18.75	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Vanadium (mg/L)	GWC-23	0.0025	n/a	9/12/2019	0.001	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	9/11/2019	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	9/11/2019	0.0013	No	15	n/a	n/a	60	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-26	0.0025	n/a	9/12/2019	0.0014	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	9/12/2019	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	9/10/2019	0.0018	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	9/11/2019	0.0025	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	9/12/2019	0.0012	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	9/12/2019	0.0014	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	9/11/2019	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	9/12/2019	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	9/12/2019	0.0031	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	9/12/2019	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	9/10/2019	0.0024	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	9/10/2019	0.0014	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	9/16/2019	0.0014	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	9/9/2019	0.0064	No	16	-5.193	0.6076	12.5	None	ln(x)	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWA-2	0.02	n/a	9/10/2019	0.0064	No	16	n/a	n/a	25	n/a	n/a	0.001026	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWA-28	0.02	n/a	9/10/2019	0.01	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	9/10/2019	0.031	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	9/11/2019	0.02	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	9/10/2019	0.006	No	16	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	9/17/2019	0.013	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	9/16/2019	0.005	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	9/11/2019	0.0056	No	16	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
<b>Zinc (mg/L)</b>	<b>GWC-13</b>	<b>0.005</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.0085</b>	<b>Yes</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>	<b>75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
<b>Zinc (mg/L)</b>	<b>GWC-14</b>	<b>0.01302</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.019</b>	<b>Yes</b>	<b>16</b>	<b>0.0662</b>	<b>0.02159</b>	<b>18.75</b>	<b>Kaplan-Meier</b>	<b>sqrt(x)</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Zinc (mg/L)	GWC-15	0.005	n/a	9/17/2019	0.0041	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	9/11/2019	0.0062	No	16	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
<b>Zinc (mg/L)</b>	<b>GWC-17</b>	<b>0.005</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.012</b>	<b>Yes</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>	<b>62.5</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
Zinc (mg/L)	GWC-18	0.005	n/a	9/11/2019	0.0038	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	9/12/2019	0.0086	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	9/11/2019	0.0061	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	9/11/2019	0.0068	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	9/10/2019	0.0061	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	9/12/2019	0.0042	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	9/11/2019	0.0081	No	7	0.00746	0.002264	28.57	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
<b>Zinc (mg/L)</b>	<b>GWC-25</b>	<b>0.02893</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.037</b>	<b>Yes</b>	<b>15</b>	<b>0.01086</b>	<b>0.007912</b>	<b>6.667</b>	<b>None</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Zinc (mg/L)	GWC-26	0.019	n/a	9/12/2019	0.0059	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	9/12/2019	0.0079	No	16	n/a	n/a	25	n/a	n/a	0.001026	NP Intra (normality) 1 of 3
<b>Zinc (mg/L)</b>	<b>GWC-30</b>	<b>0.009</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>0.019</b>	<b>Yes</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>	<b>62.5</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>



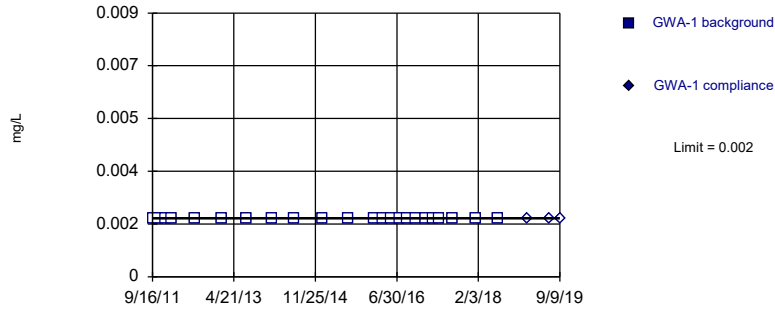
# Intrawell Prediction Limit Summary - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 1/17/2020, 10:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Zinc (mg/L)</b>	<b>GWC-31</b>	<b>0.03796</b>	n/a	<b>9/11/2019</b>	<b>0.081</b>	<b>Yes</b>	<b>12</b>	<b>0.01699</b>	<b>0.008457</b>	<b>8.333</b>	<b>None</b>	<b>No</b>	<b>0.0001135</b>	<b>Param Intra 1 of 3</b>
Zinc (mg/L)	GWC-32	0.1273	n/a	9/12/2019	0.098	No	16	0.06675	0.02729	0	None	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-33	0.01087	n/a	9/12/2019	0.01	No	15	-5.239	0.3143	26.67	Kaplan-Meier	ln(x)	0.0001135	Param Intra 1 of 3
<b>Zinc (mg/L)</b>	<b>GWC-34</b>	<b>0.005</b>	n/a	<b>9/11/2019</b>	<b>0.0068</b>	<b>Yes</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>	<b>68.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
Zinc (mg/L)	GWC-35	0.006162	n/a	9/12/2019	0.0045	No	16	0.003142	0.001361	25	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
<b>Zinc (mg/L)</b>	<b>GWC-5</b>	<b>0.005</b>	n/a	<b>9/12/2019</b>	<b>0.0067</b>	<b>Yes</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>	<b>56.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
<b>Zinc (mg/L)</b>	<b>GWC-6</b>	<b>0.005</b>	n/a	<b>9/12/2019</b>	<b>0.049</b>	<b>Yes</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>	<b>56.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.001026</b>	<b>NP Intra (NDs) 1 of 3</b>
Zinc (mg/L)	GWC-7	0.01	n/a	9/10/2019	0.0063	No	16	n/a	n/a	56.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-8	0.007153	n/a	9/10/2019	0.0051	No	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	9/16/2019	0.0049	No	15	0.003756	0.002099	46.67	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3

Within Limit

Prediction Limit  
 Intrawell Non-parametric

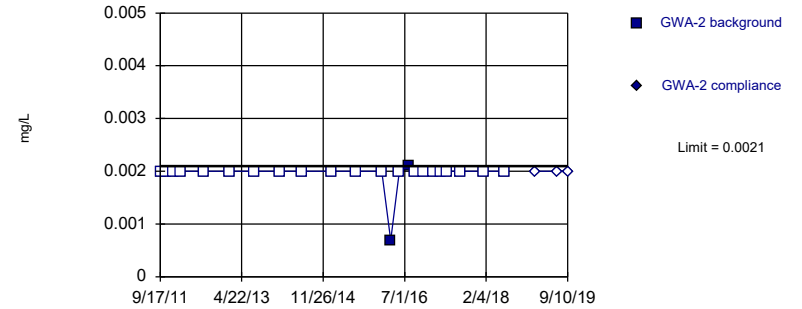


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 1/17/2020 9:46 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

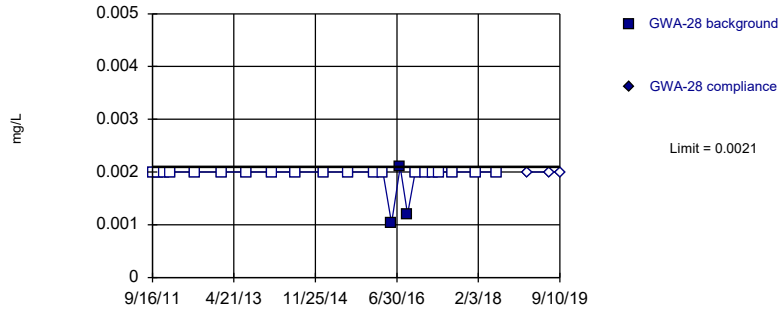


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

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Within Limit

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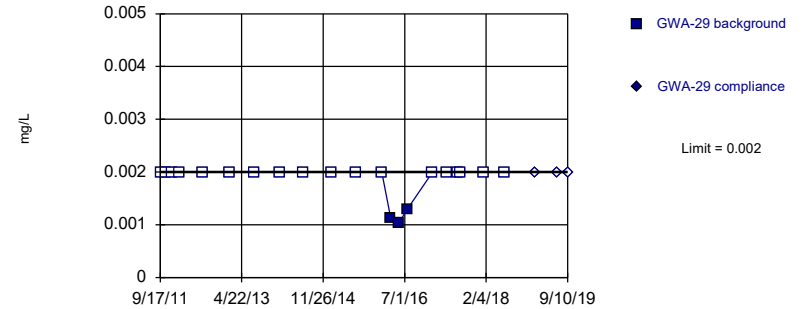


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

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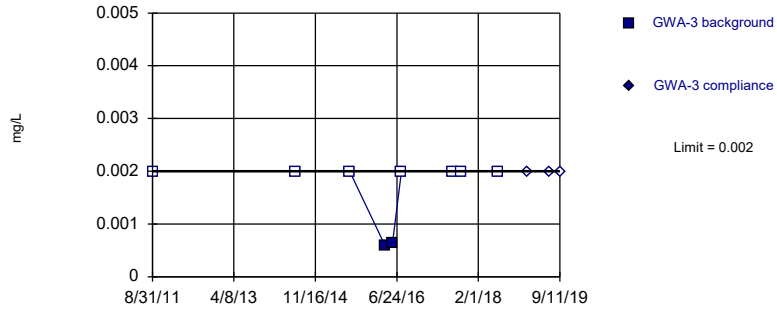


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

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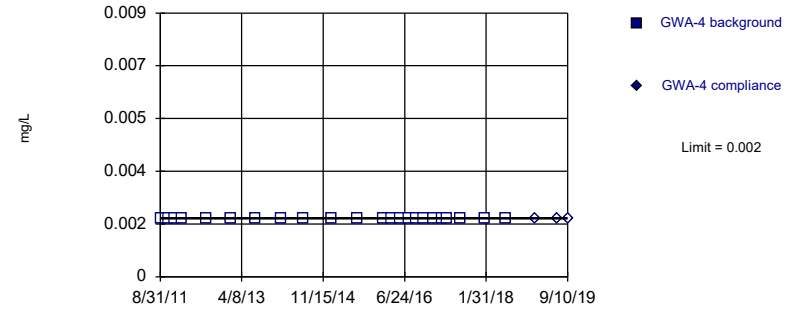


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

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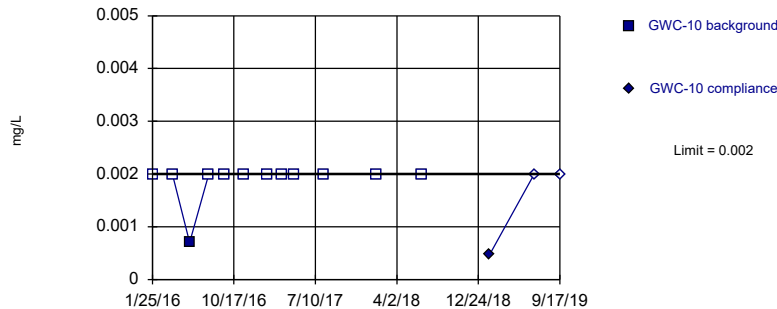


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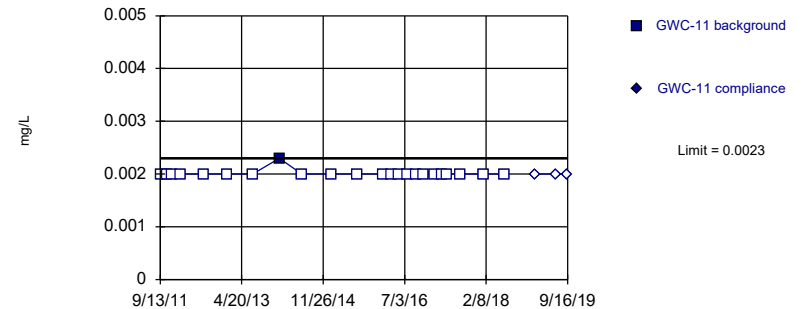


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

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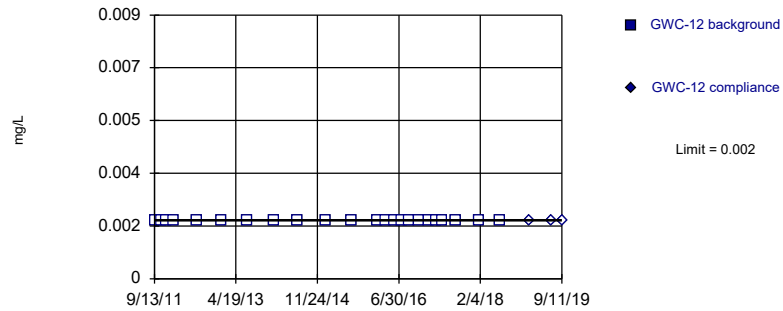


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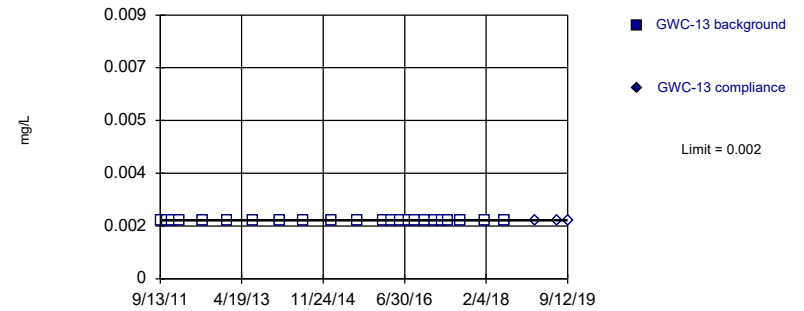


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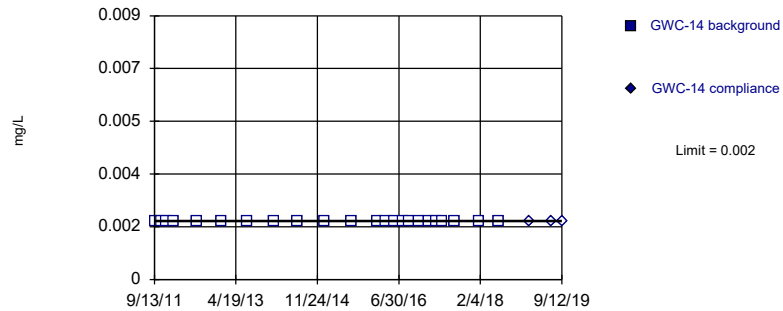


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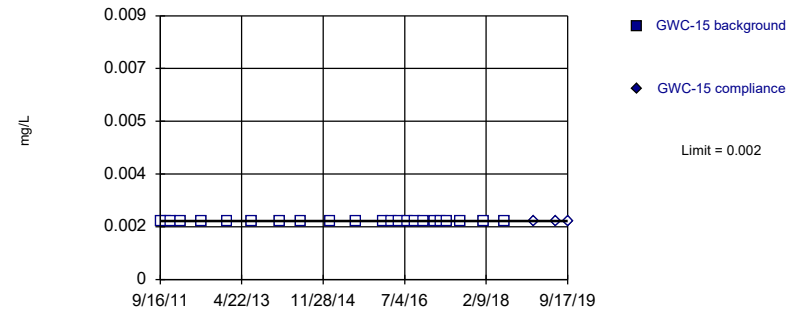


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Within Limit

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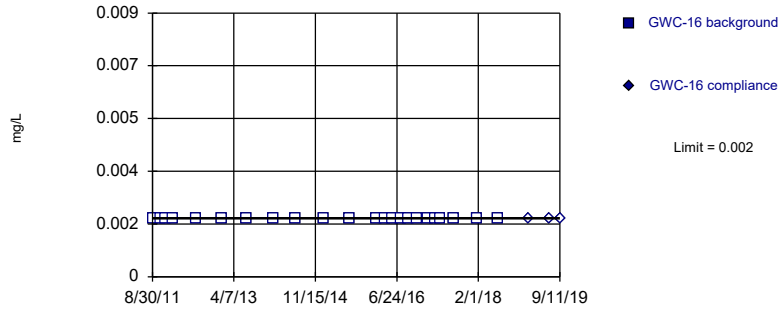


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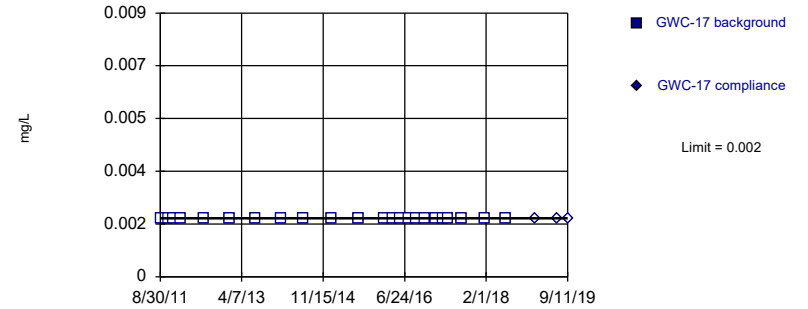


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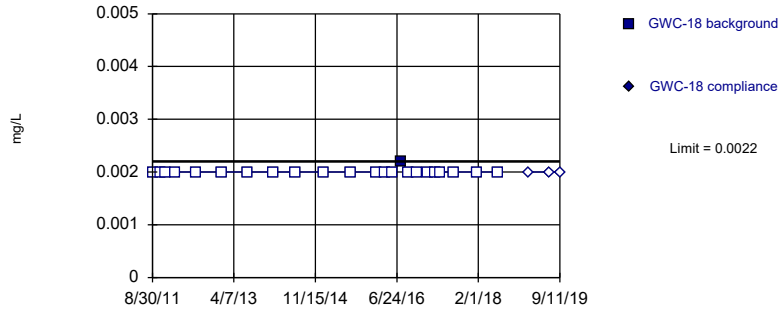


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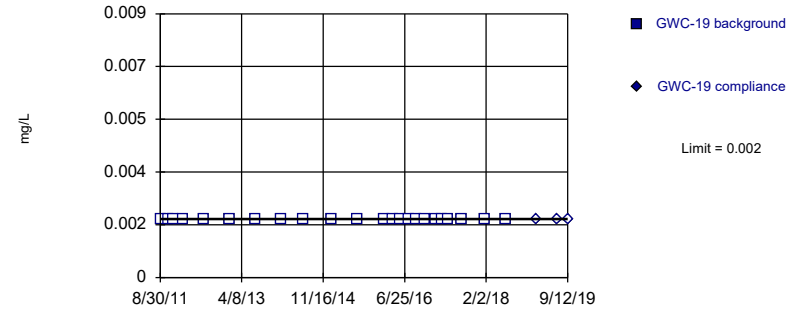


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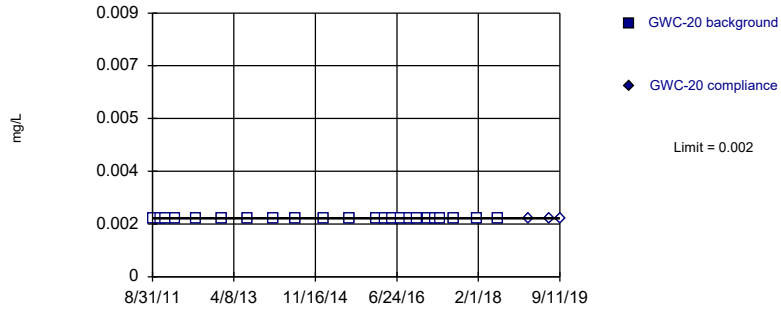
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Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



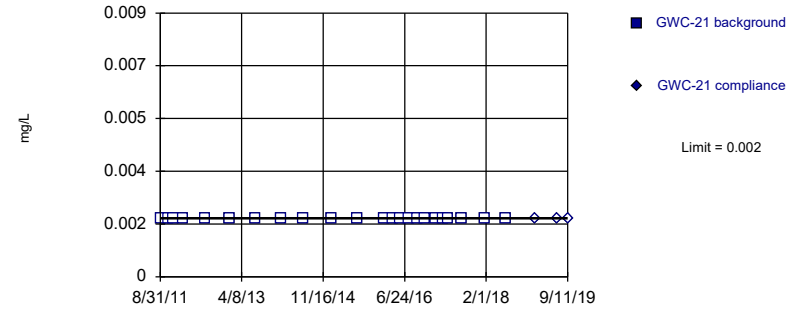
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Within Limit

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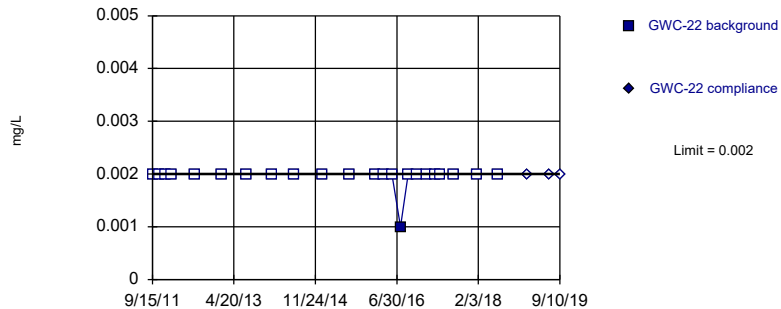
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Within Limit

### Prediction Limit Intrawell Non-parametric



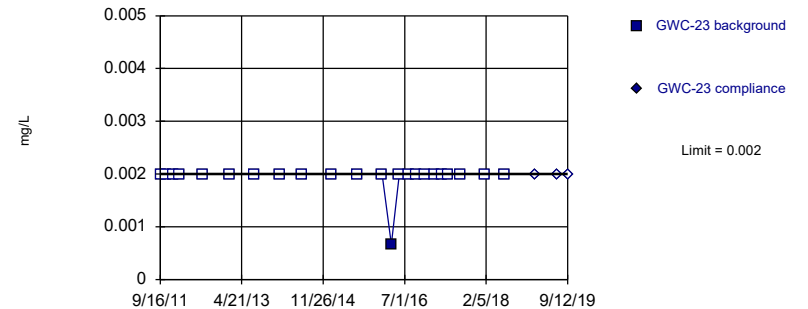
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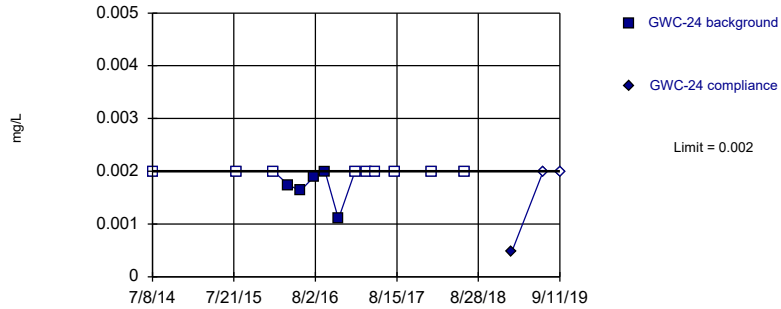
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Intrawell Non-parametric



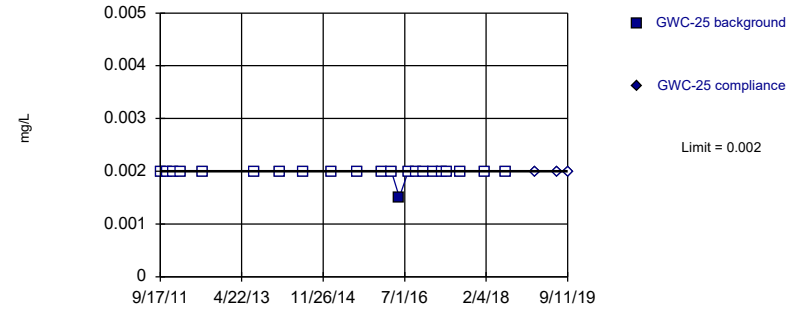
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

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Within Limit

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Intrawell Non-parametric



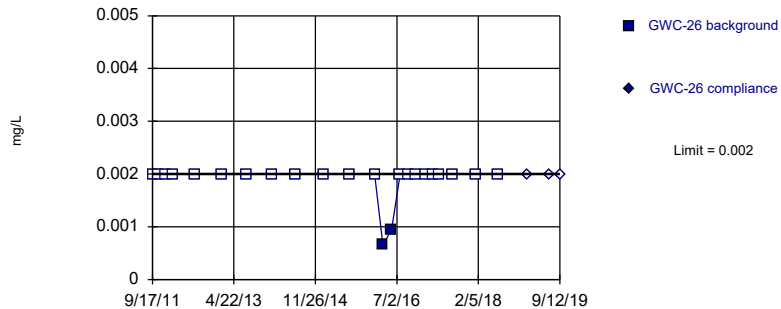
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

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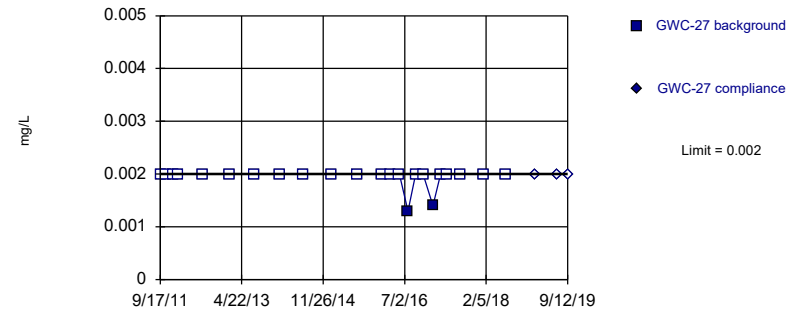
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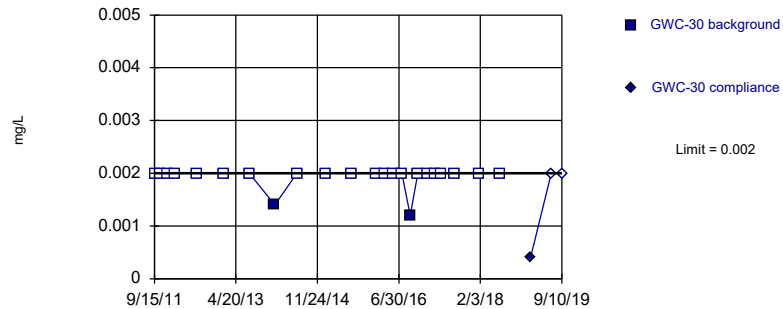


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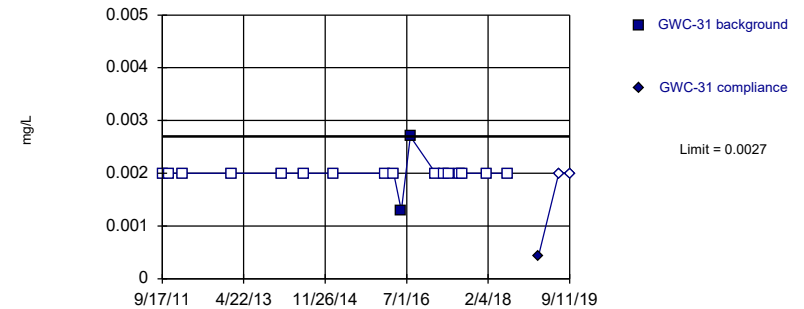


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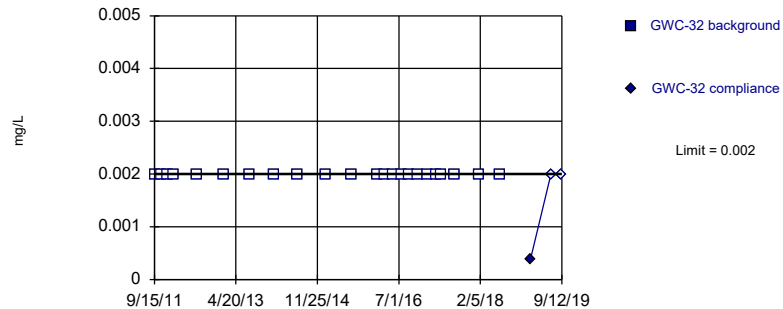


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

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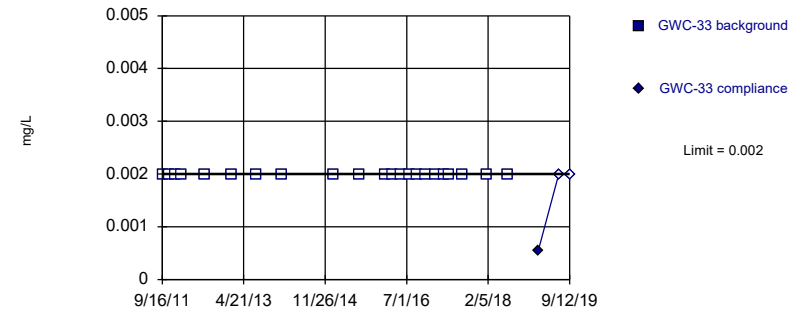


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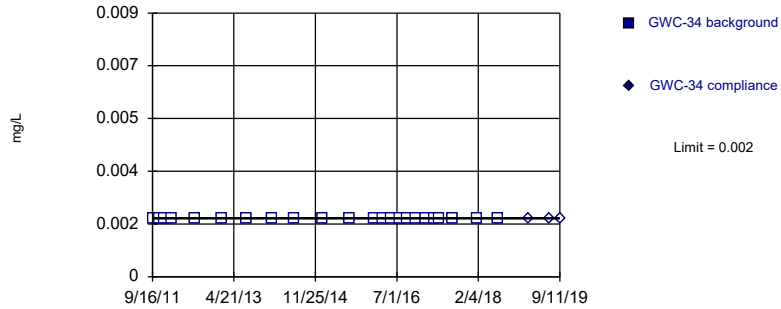
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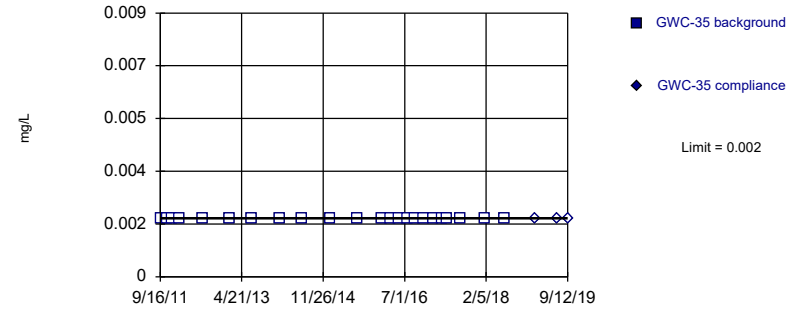


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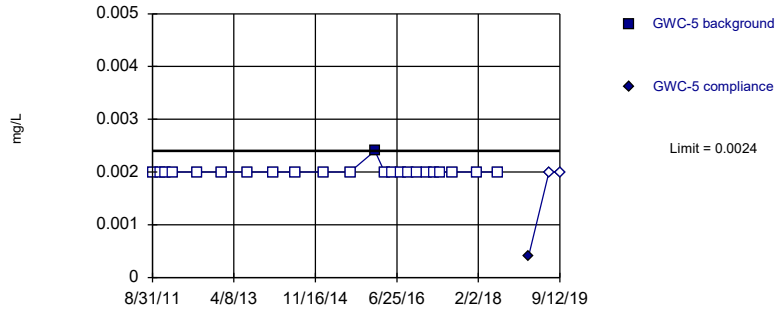


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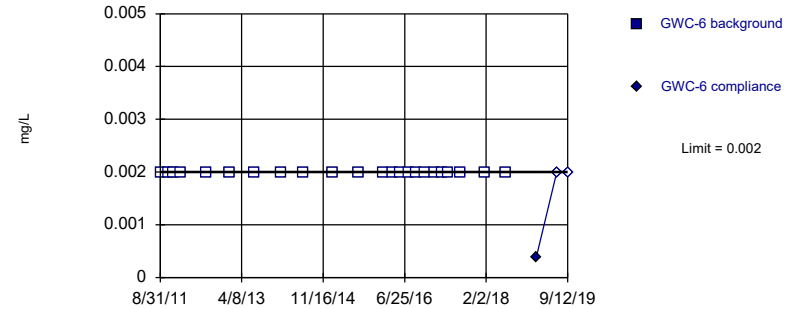


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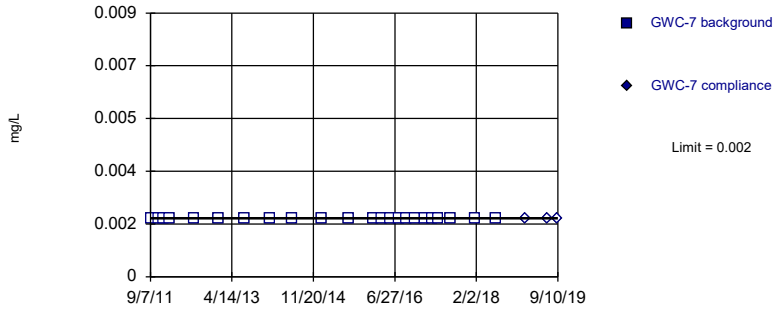
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 1/17/2020 9:47 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



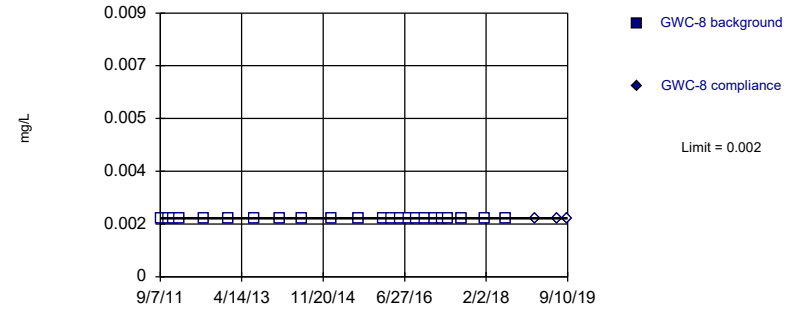
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 1/17/2020 9:47 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



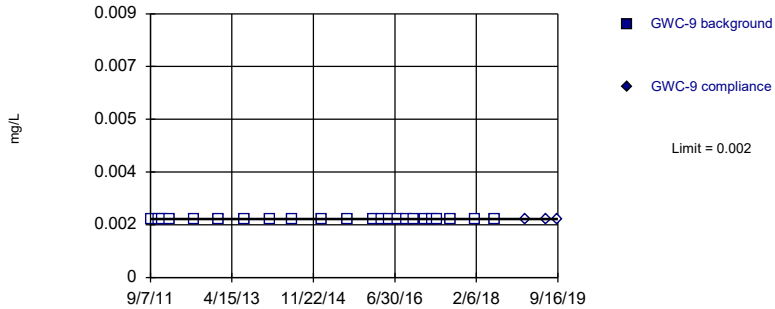
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 1/17/2020 9:47 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



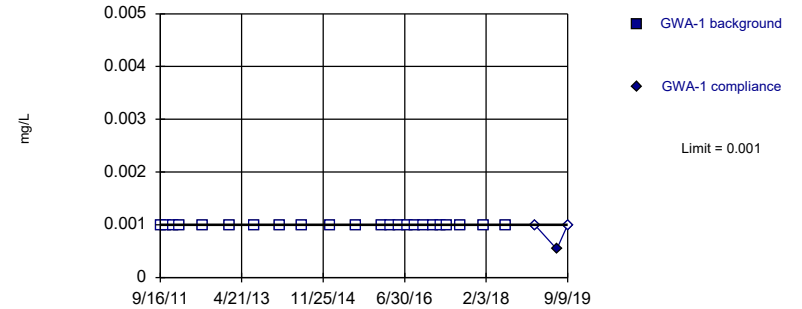
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 1/17/2020 9:47 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



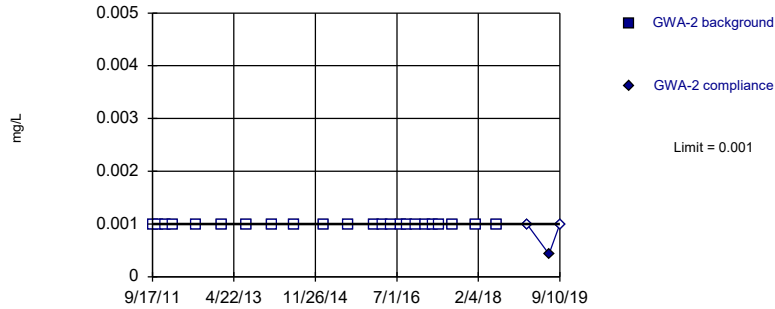
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:47 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



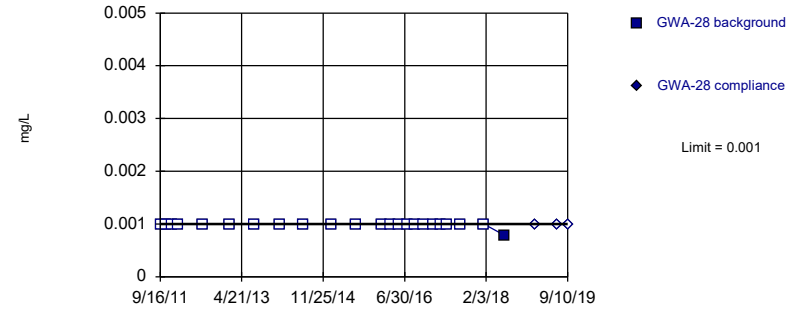
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:47 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



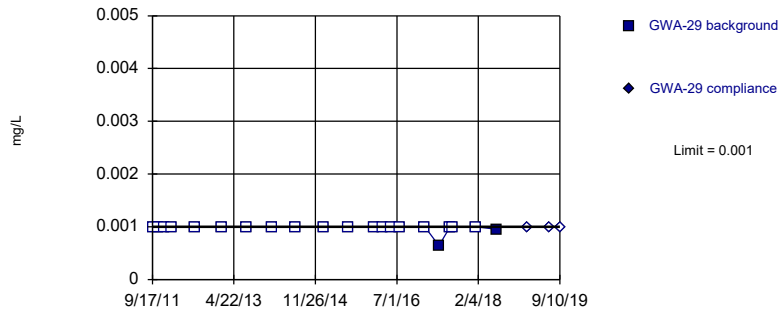
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:47 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



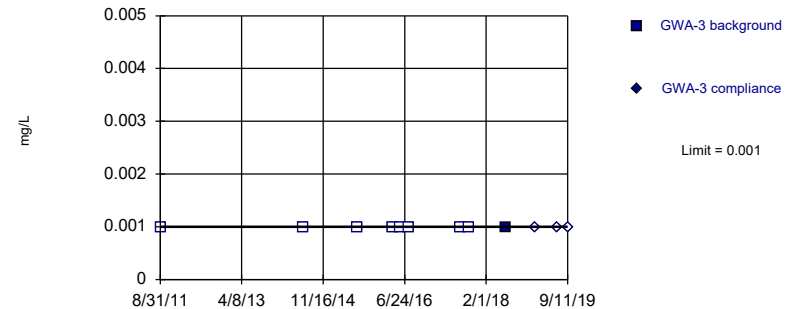
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 90.48% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

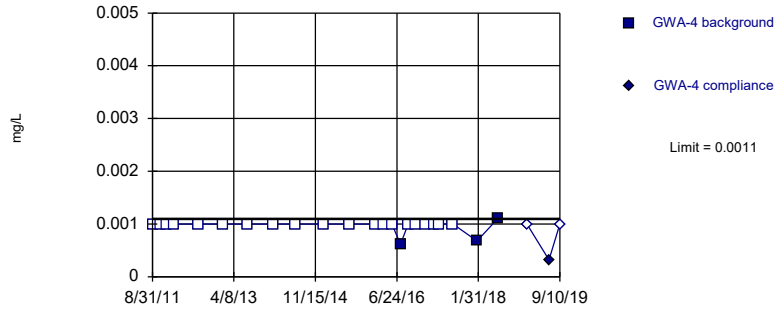


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

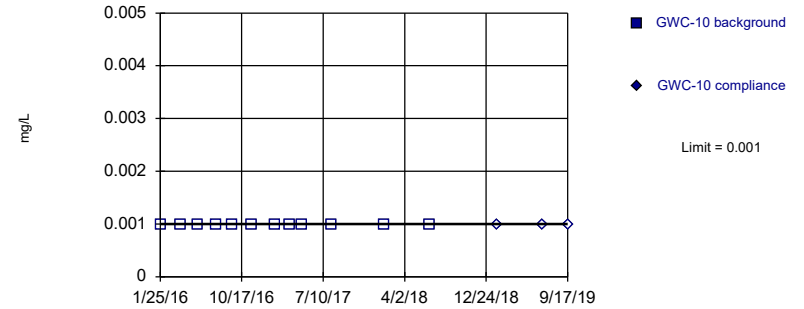


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

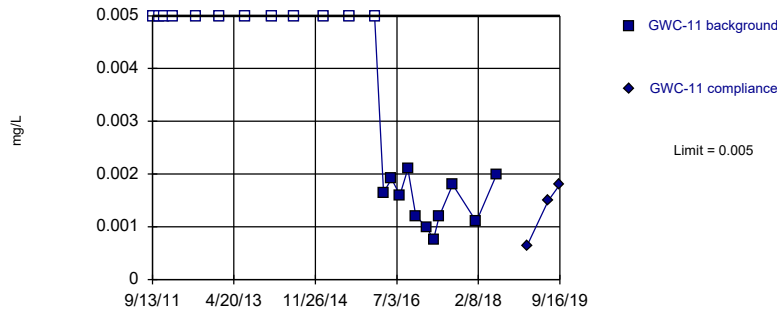


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

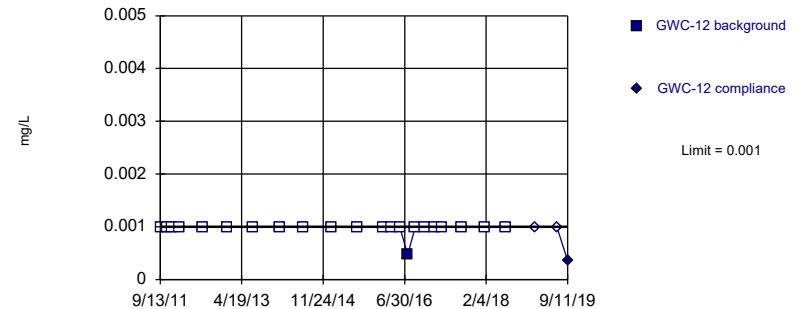


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 52.17% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

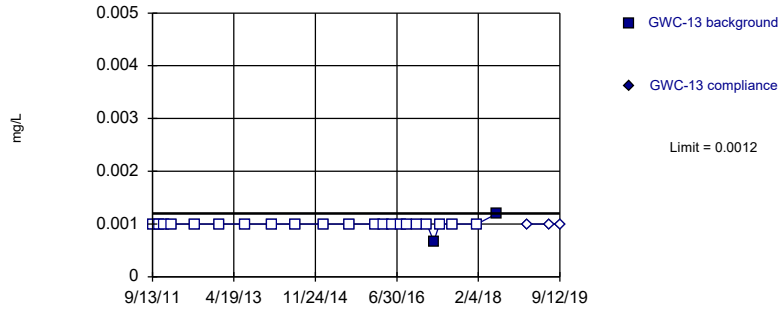


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

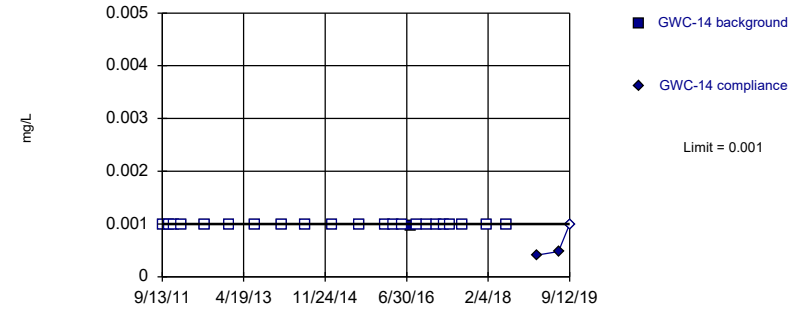


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

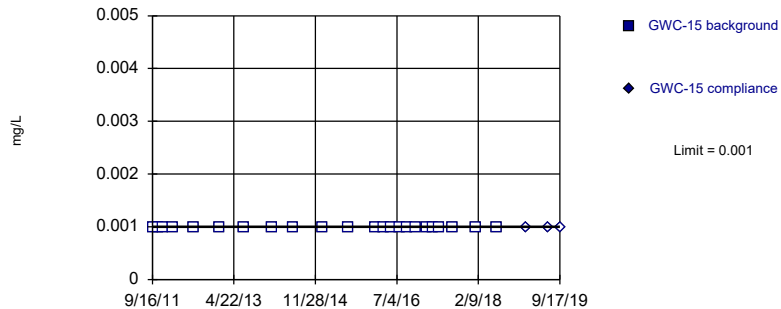


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

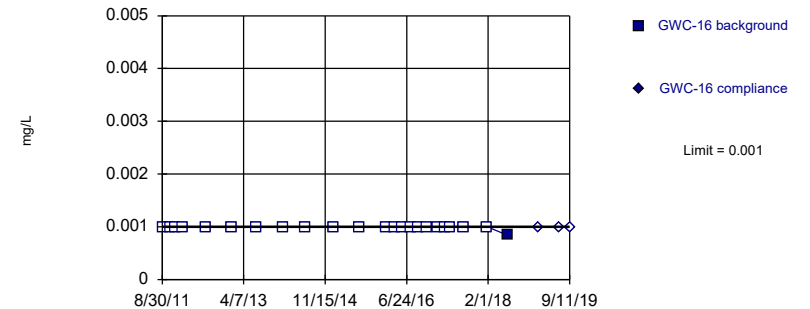


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



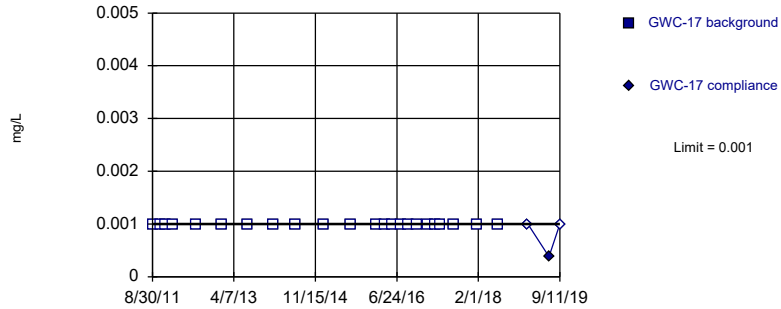
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



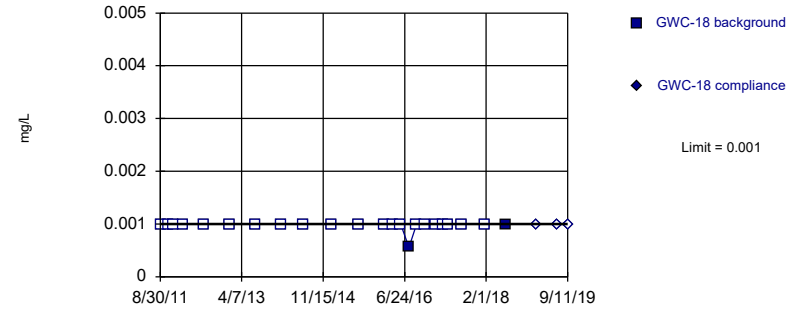
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



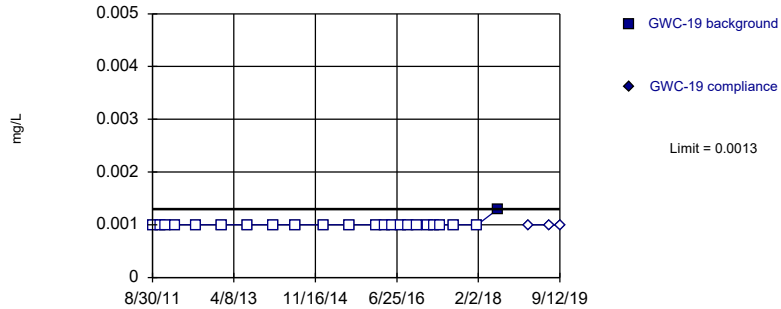
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



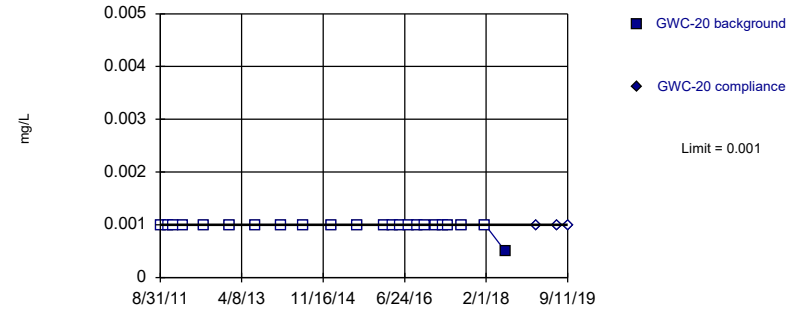
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

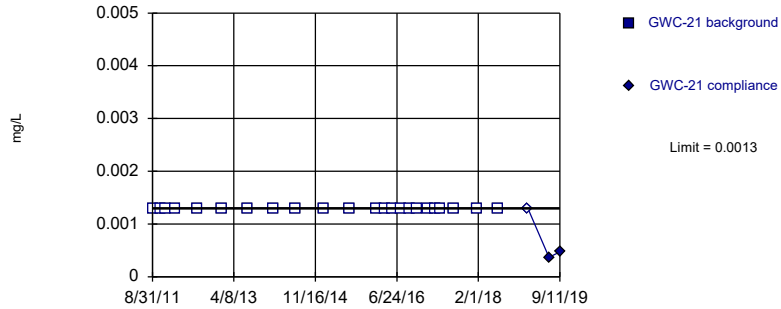


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

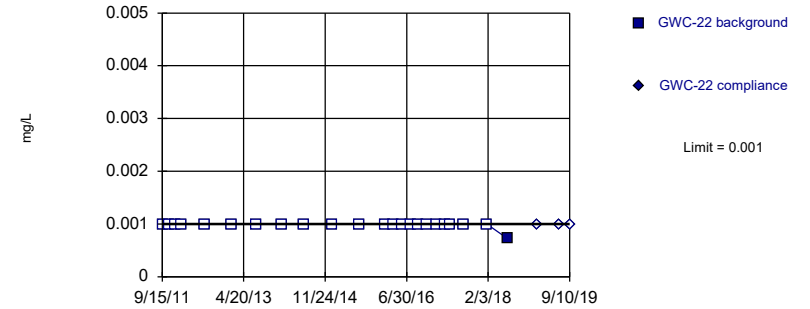


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

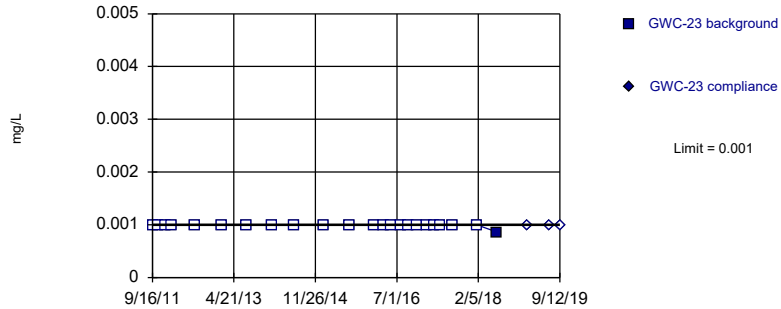


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

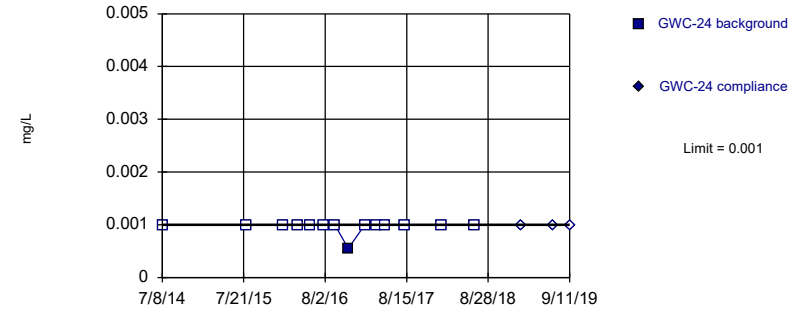


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

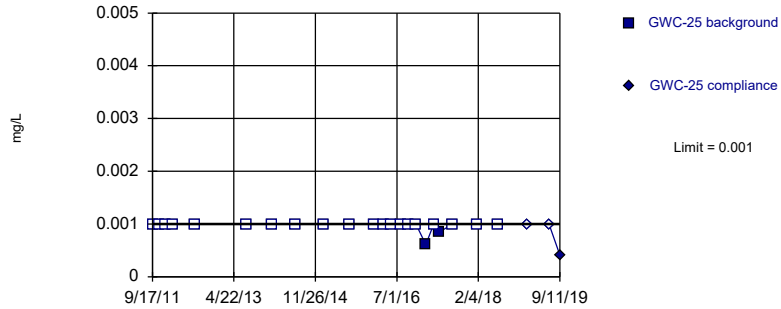


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

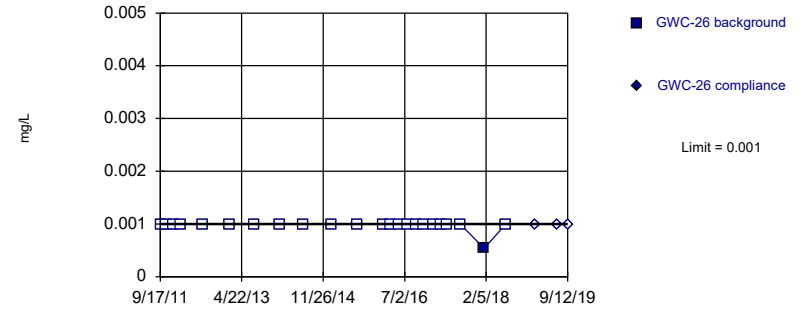


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

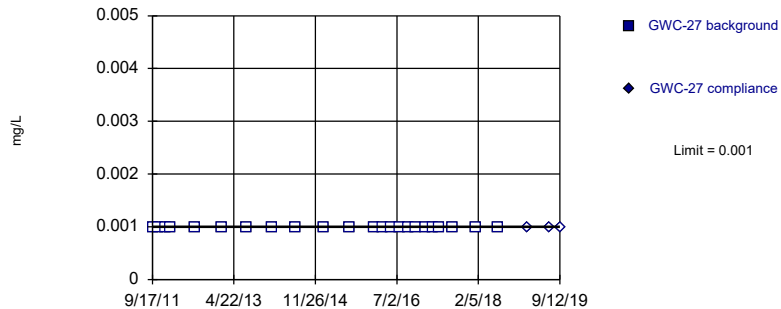


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

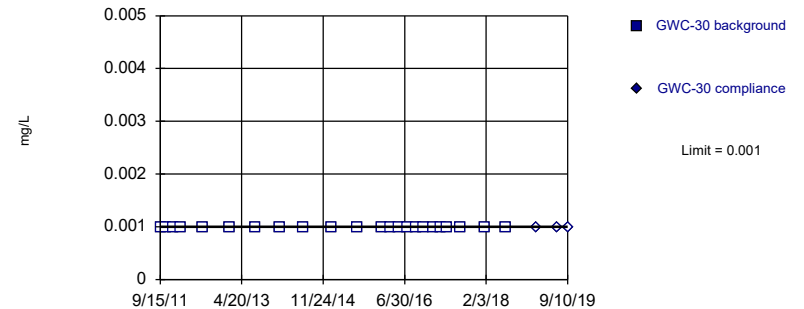


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



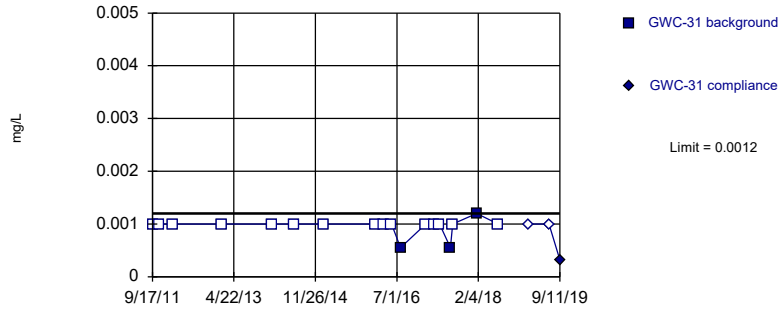
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
 Intrawell Non-parametric

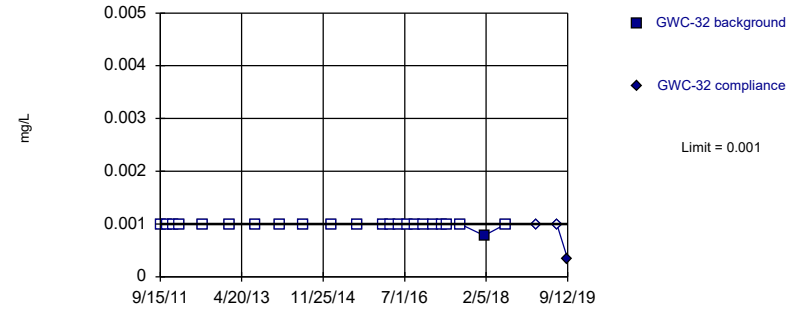


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:48 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

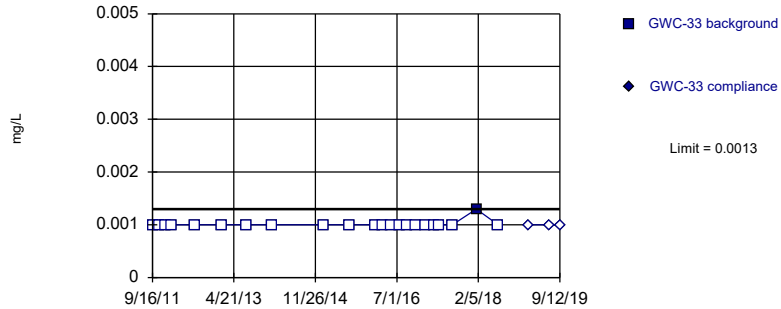


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

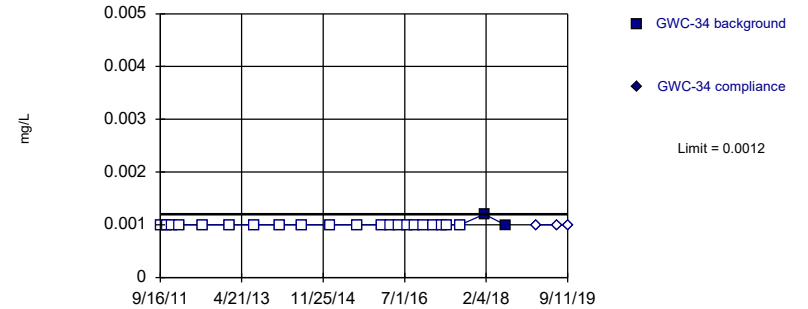


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

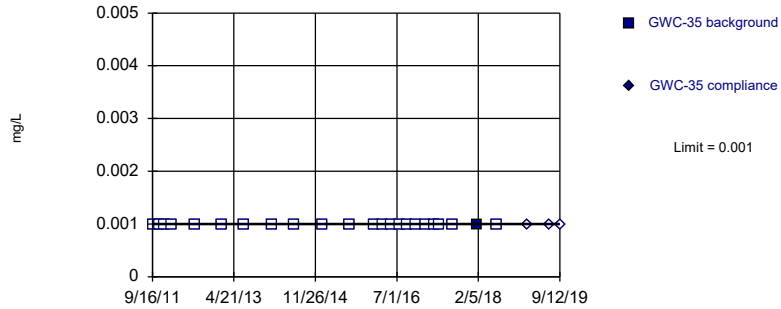


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

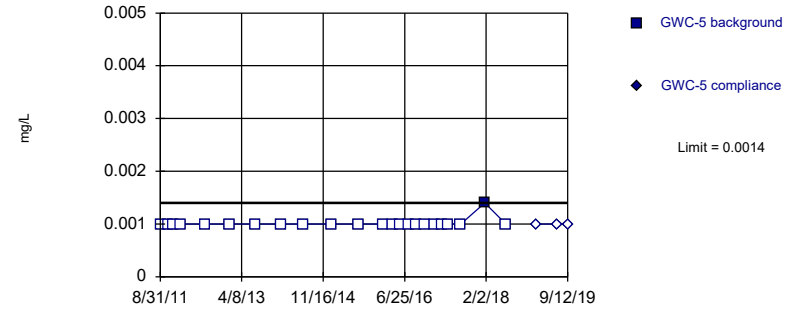


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

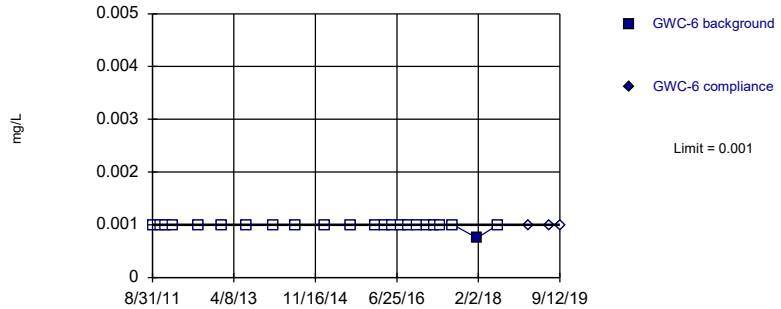


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

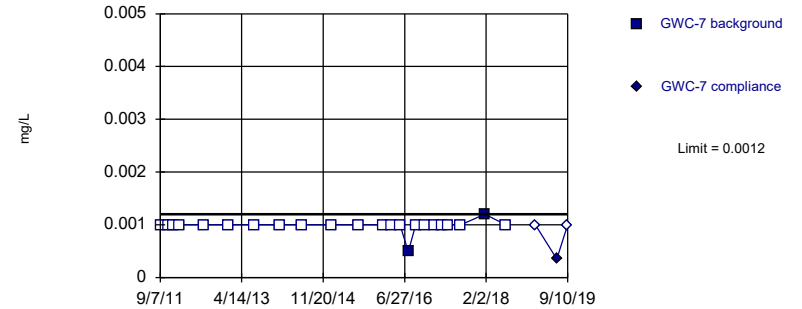


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

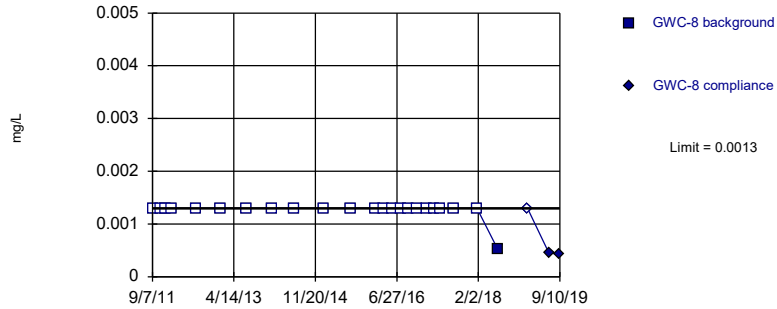
Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

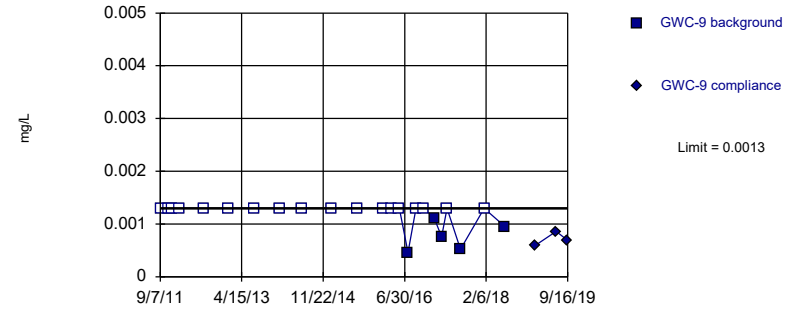
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

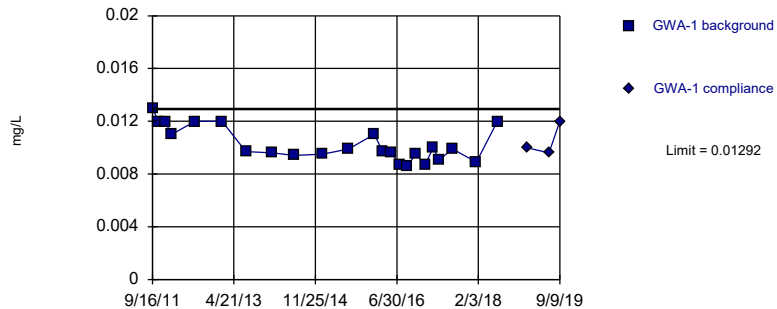
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

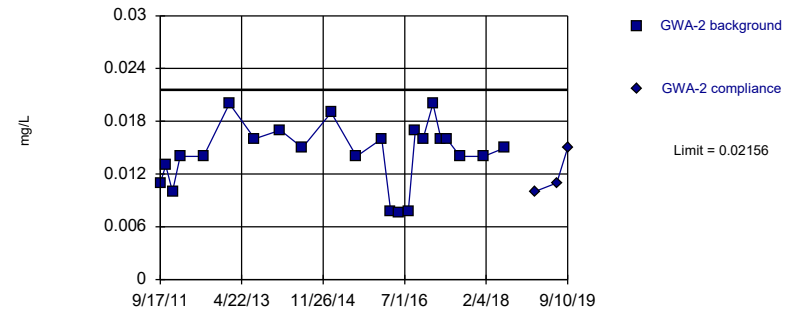
Within Limit Prediction Limit  
 Intrawell Parametric



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 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit Prediction Limit  
 Intrawell Parametric

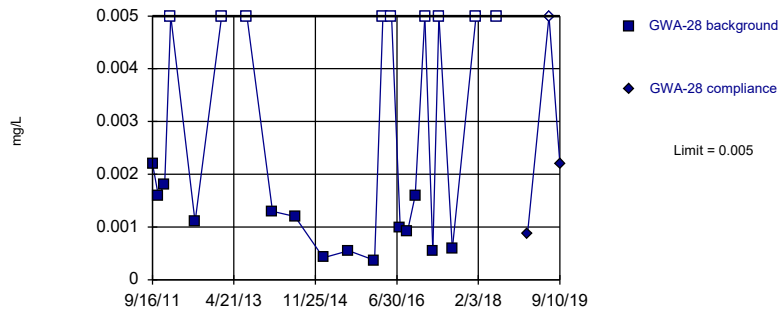


Background Data Summary: Mean=0.01435, Std. Dev.=0.003559, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

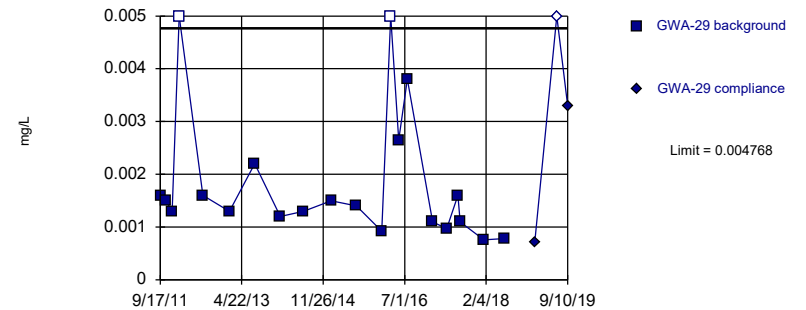


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 39.13% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

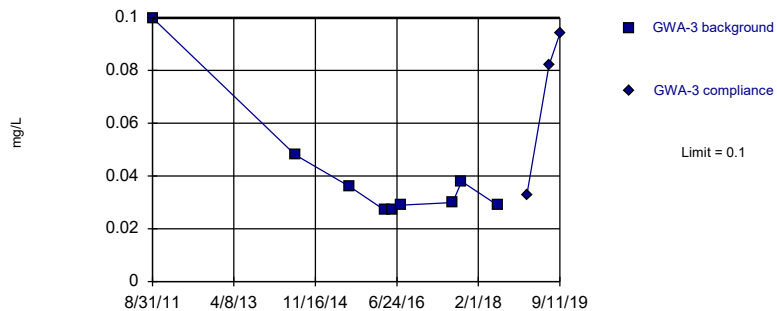


Background Data Summary (based on natural log transformation): Mean=-6.46, Std. Dev.=0.5402, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8886, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

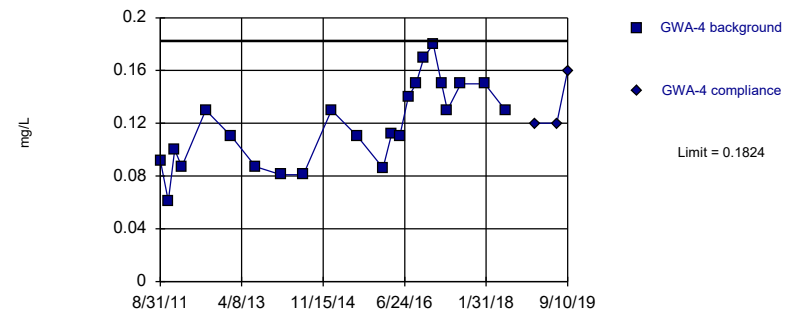


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

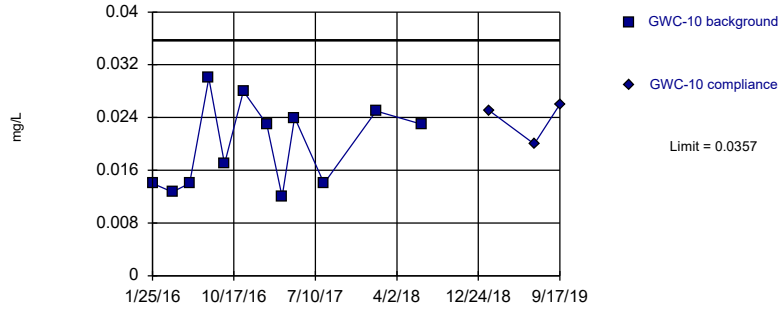
Prediction Limit  
Intrawell Parametric



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 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

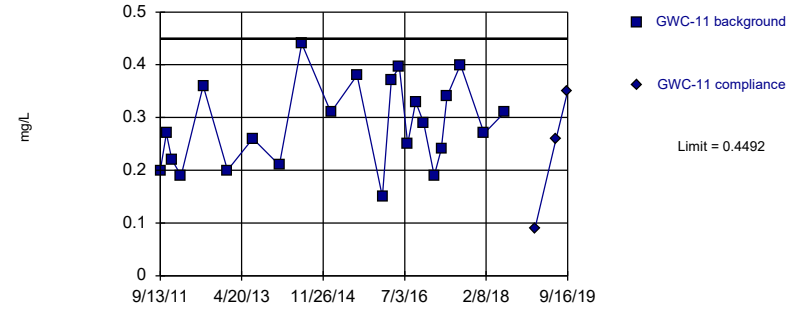
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01973, Std. Dev.=0.006441, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8871, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

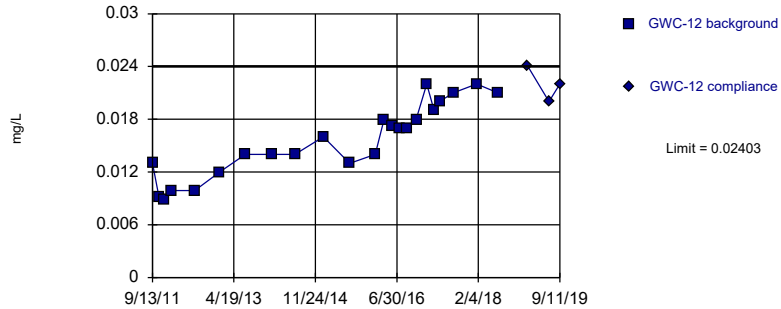
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.286, Std. Dev.=0.08062, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, 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 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

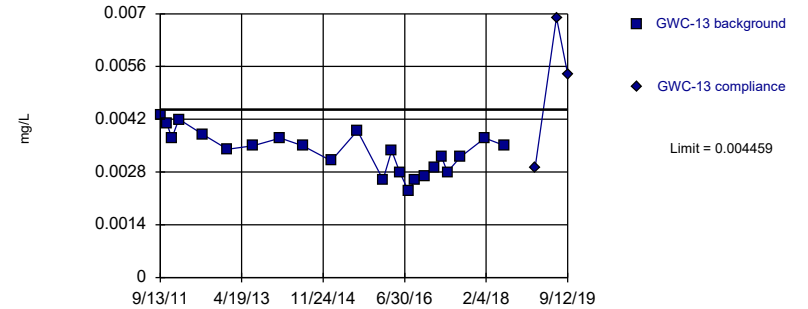
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01566, Std. Dev.=0.004138, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9475, 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 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit Prediction Limit  
Intrawell Parametric

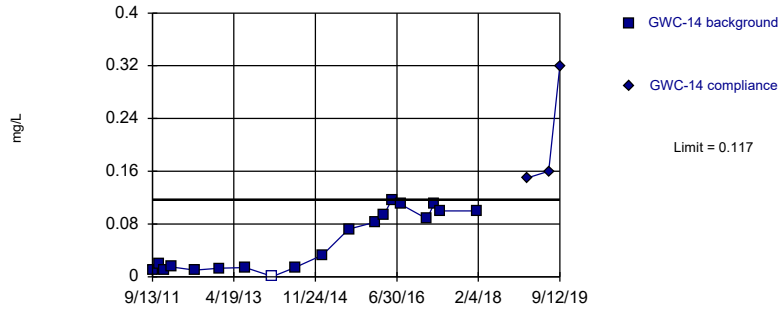


Background Data Summary: Mean=0.003342, Std. Dev.=0.0005516, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9727, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

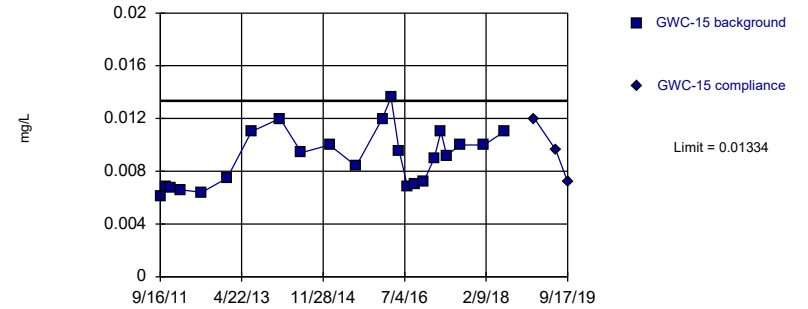


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 19 background values. 5.263% NDs. Well-constituent pair annual alpha = 0.001357. Individual comparison alpha = 0.0006785 (1 of 3).

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

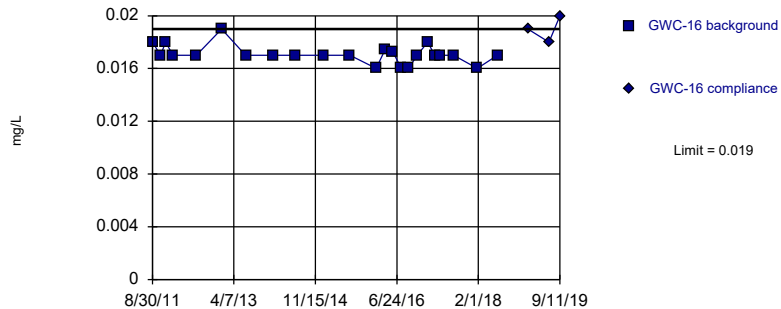


Background Data Summary: Mean=0.009012, Std. Dev.=0.002137, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

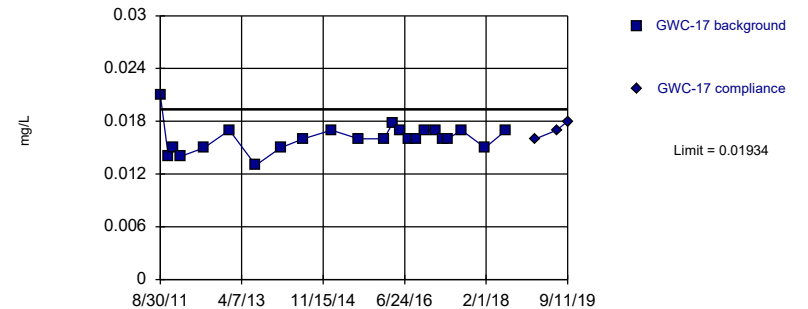


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

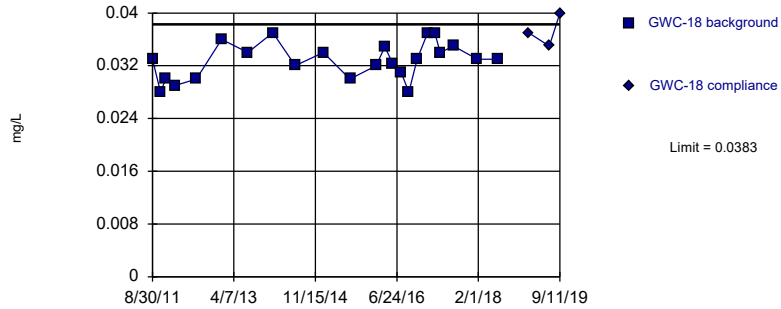


Background Data Summary: Mean=0.01612, Std. Dev.=0.001592, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8965, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

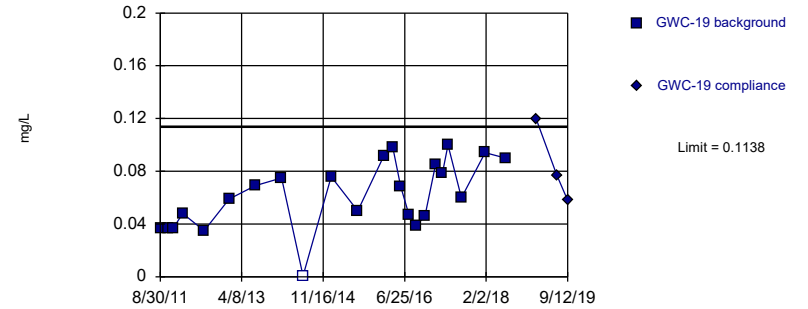


Background Data Summary: Mean=0.03275, Std. Dev.=0.002744, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9545, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

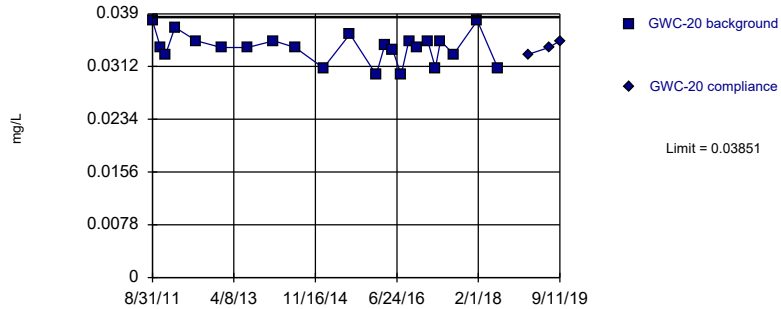


Background Data Summary: Mean=0.06187, Std. Dev.=0.02567, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:49 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

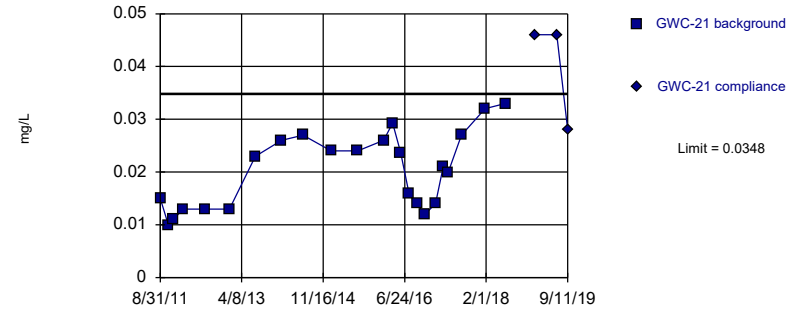


Background Data Summary: Mean=0.03396, Std. Dev.=0.002249, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9372, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

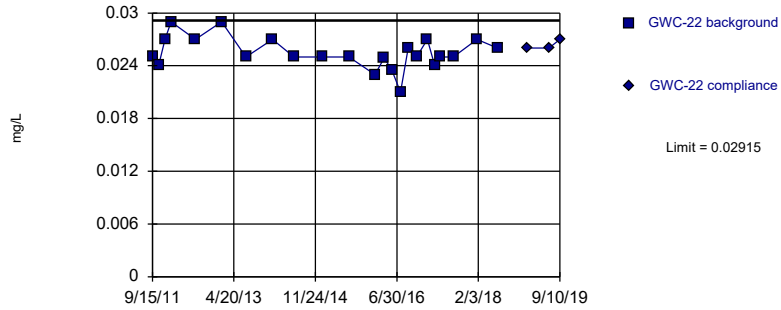
Prediction Limit  
Intrawell Parametric



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 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

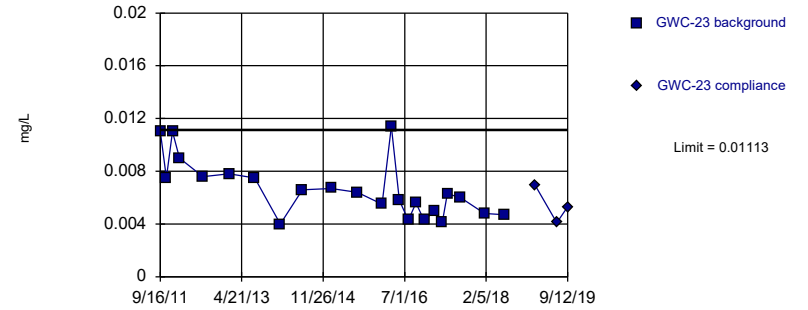
Within Limit Prediction Limit  
Intrawell Parametric



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 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

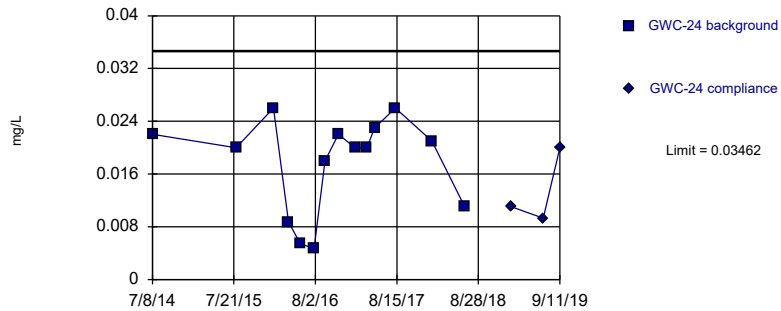
Within Limit Prediction Limit  
Intrawell Parametric



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 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

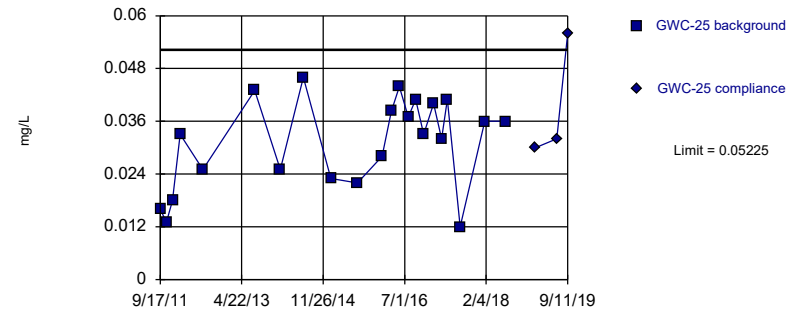
Within Limit Prediction Limit  
Intrawell Parametric



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 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit Prediction Limit  
Intrawell Parametric



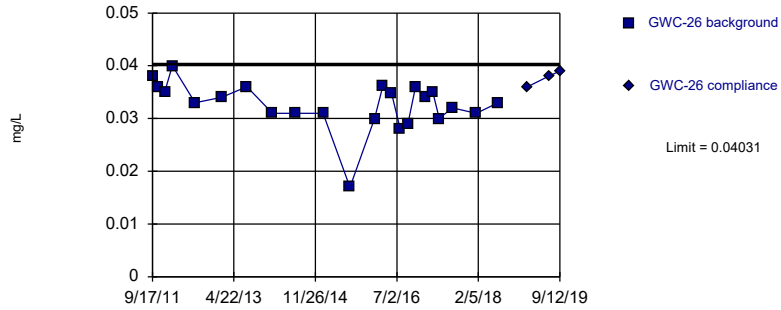
Background Data Summary: Mean=0.03101, Std. Dev.=0.0104, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

### Prediction Limit Intrawell Parametric

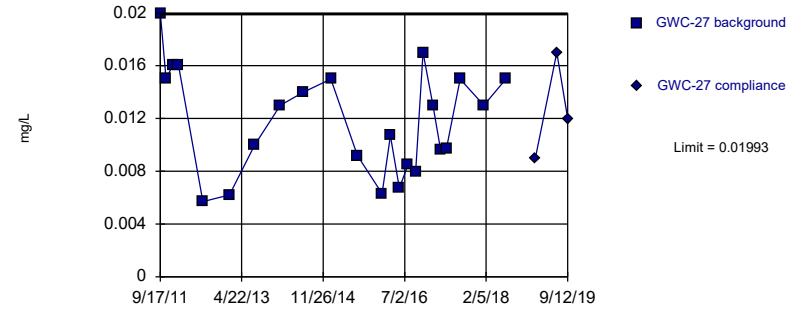


Background Data Summary (based on square transformation): Mean=0.001086, Std. Dev.=0.0002664, n=23.  
 Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9358, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Parametric

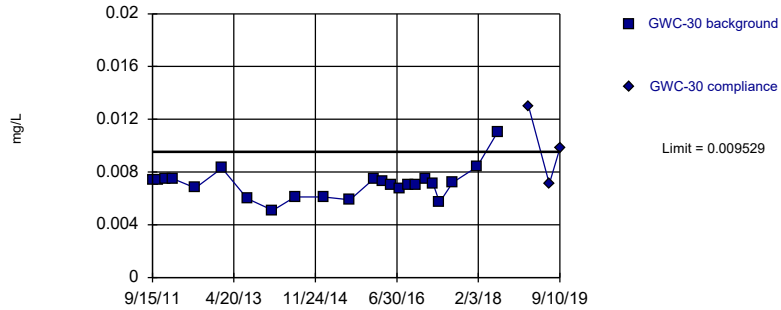


Background Data Summary: Mean=0.01185, Std. Dev.=0.003989, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Parametric

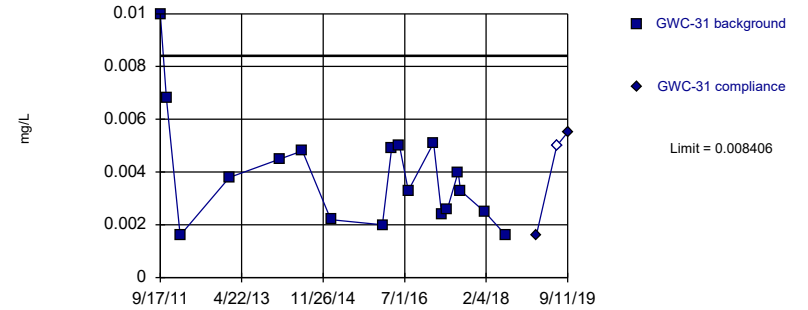


Background Data Summary (based on square root transformation): Mean=0.08407, Std. Dev.=0.006692, n=23.  
 Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Parametric

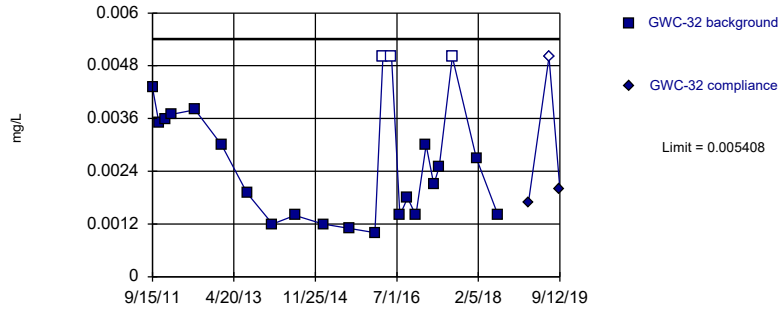


Background Data Summary: Mean=0.003913, Std. Dev.=0.002089, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8697, critical = 0.858. Kappa = 2.15 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

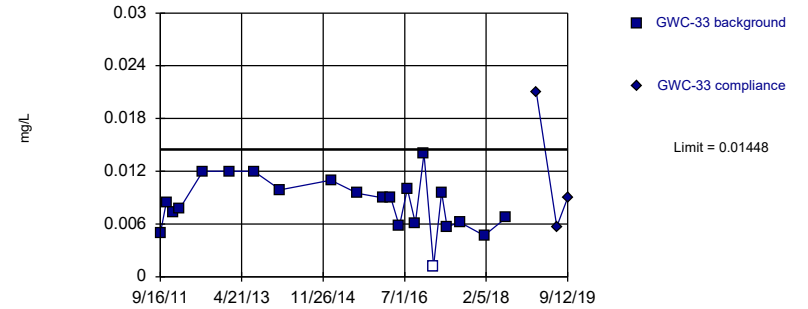


Background Data Summary: Mean=0.002652, Std. Dev.=0.001361, n=23, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8981, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

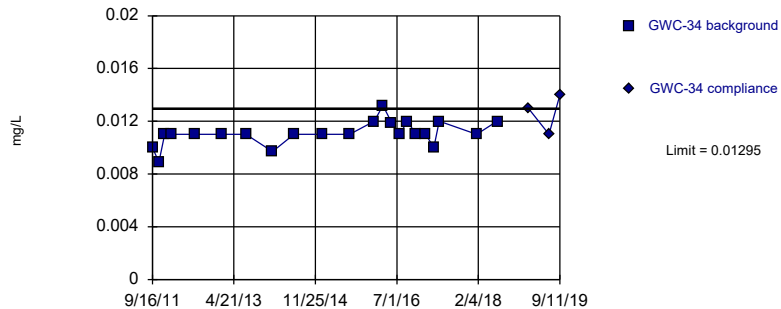


Background Data Summary: Mean=0.008309, Std. Dev.=0.003018, n=22, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9796, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

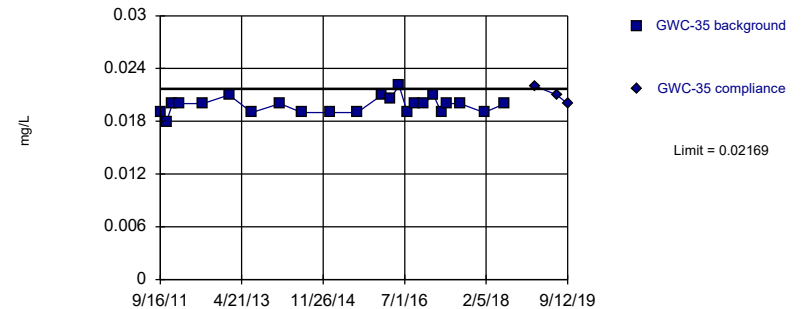


Background Data Summary: Mean=0.01108, Std. Dev.=0.000916, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8839, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

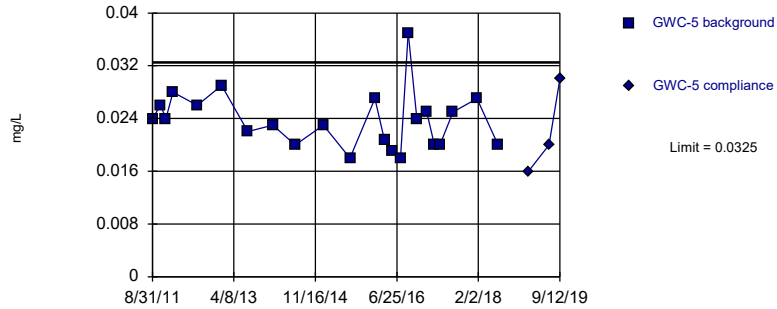


Background Data Summary: Mean=0.01981, Std. Dev.=0.0009285, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9061, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

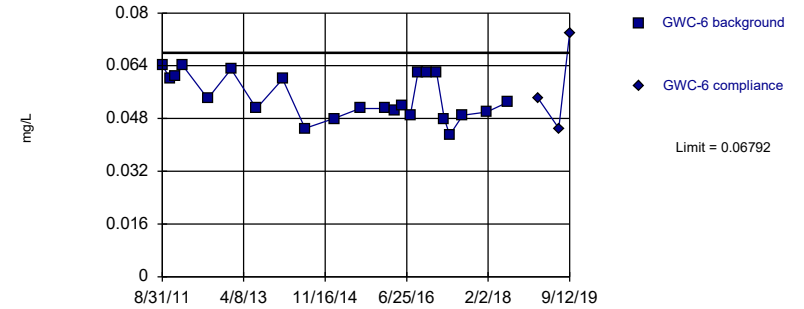


Background Data Summary: Mean=0.02373, Std. Dev.=0.004334, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9097, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

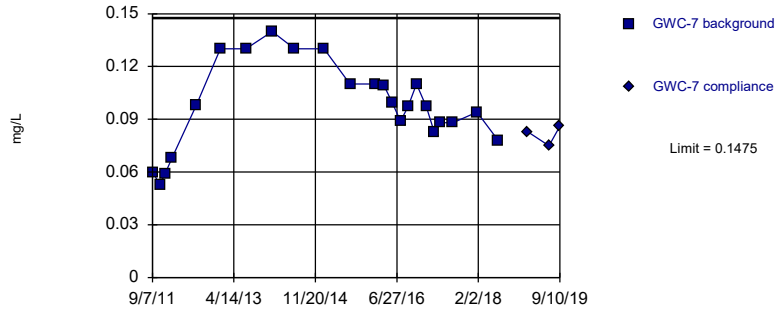


Background Data Summary: Mean=0.05446, Std. Dev.=0.006649, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8995, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

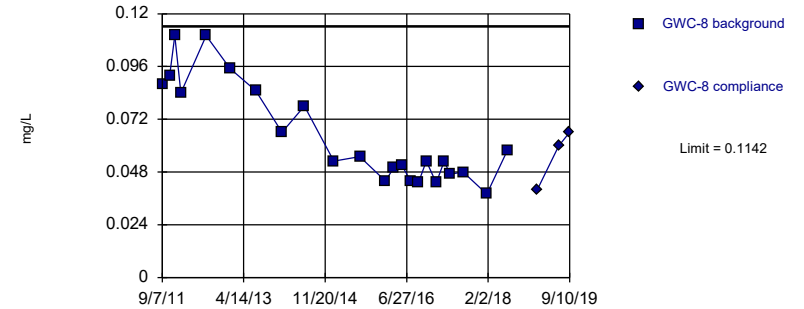


Background Data Summary: Mean=0.09785, Std. Dev.=0.02452, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

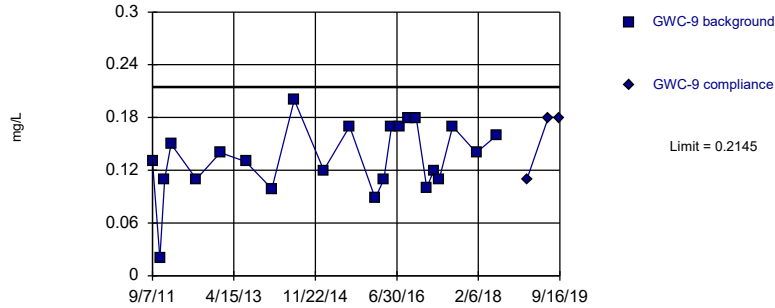


Background Data Summary (based on square root transformation): Mean=0.2509, Std. Dev.=0.04301, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8862, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

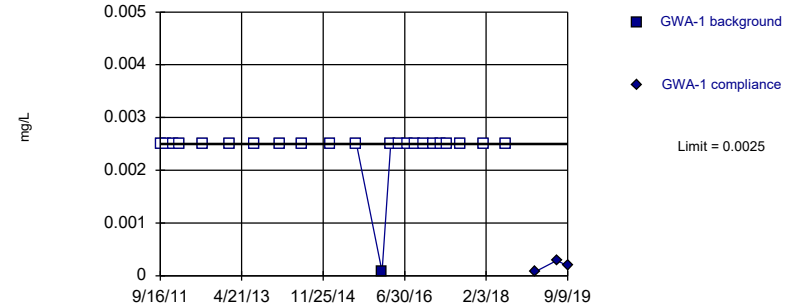


Background Data Summary: Mean=0.1338, Std. Dev.=0.03988, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

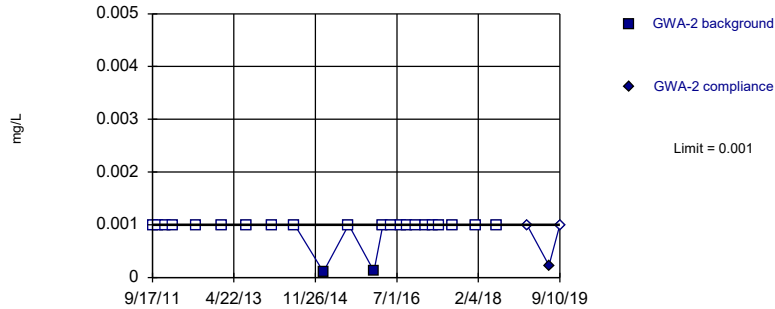


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

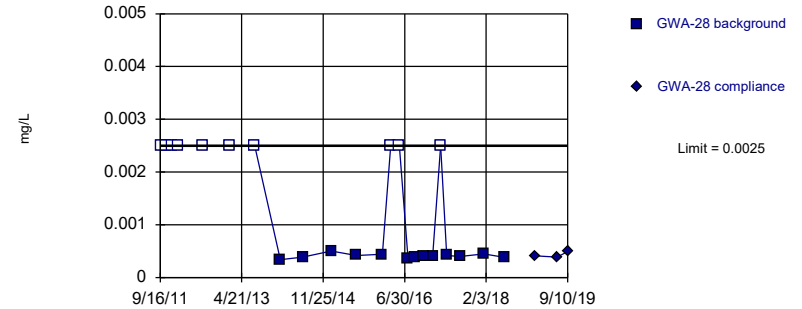


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

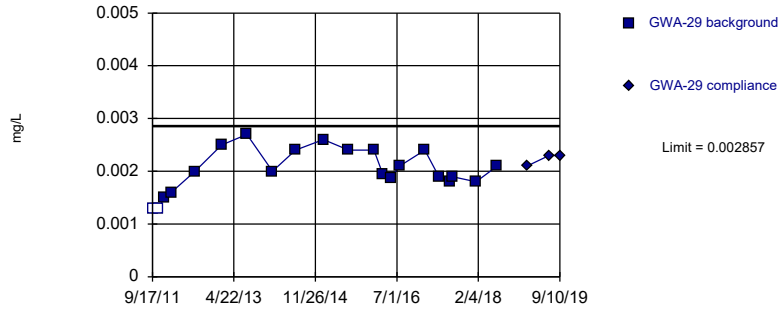


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 43.48% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

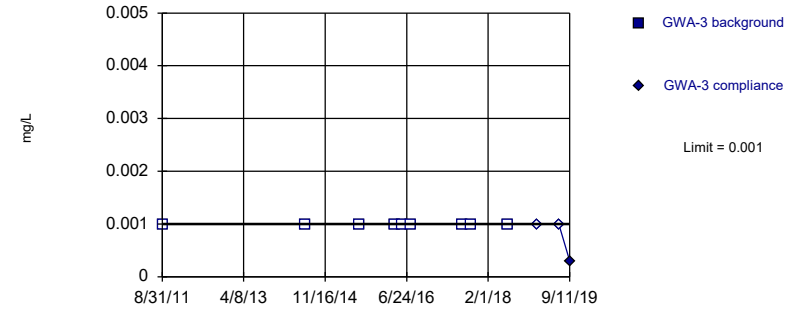


Background Data Summary: Mean=0.002025, Std. Dev.=0.0004034, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Beryllium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

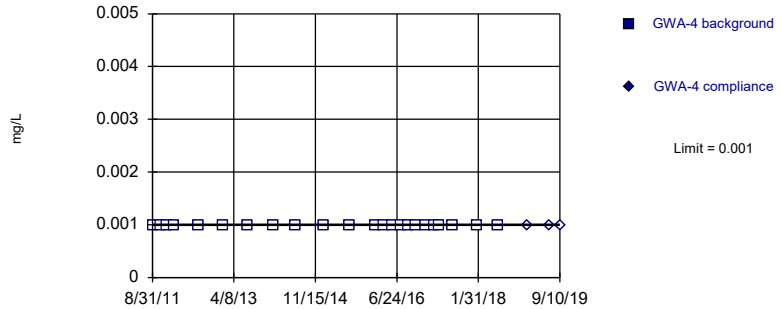


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:50 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

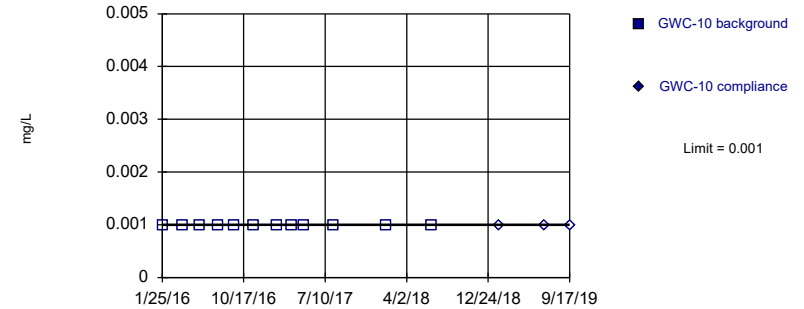


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

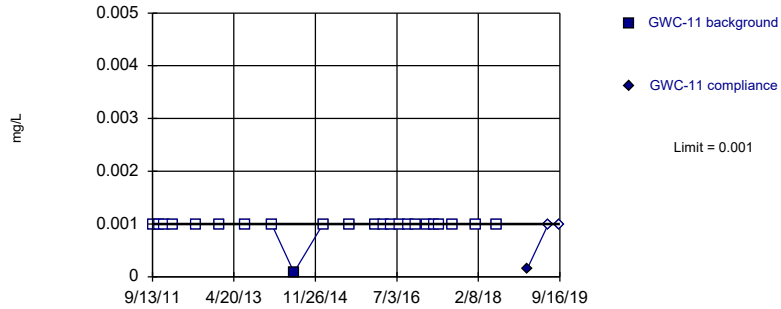


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

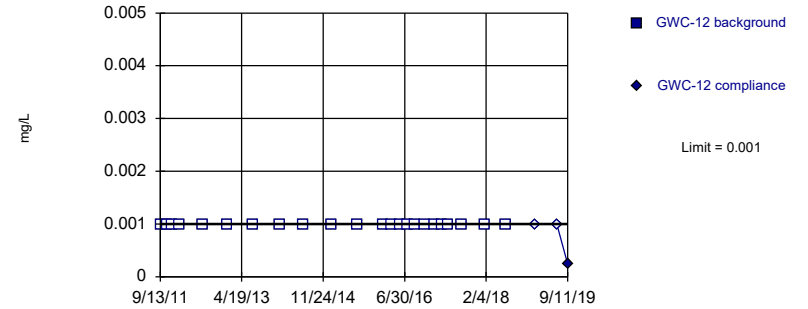


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

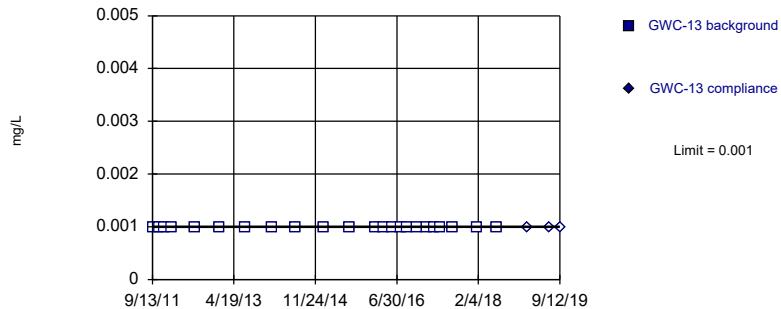


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

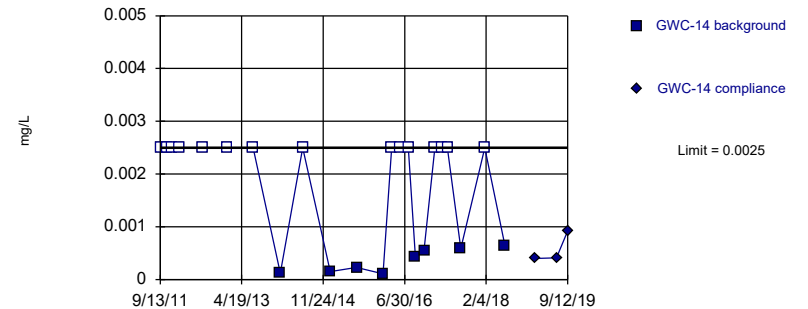


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

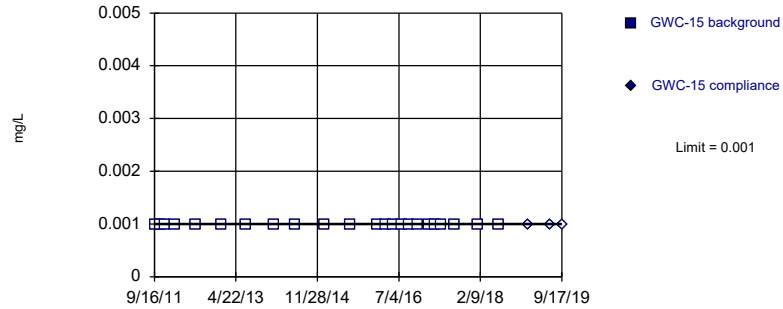


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 65.22% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

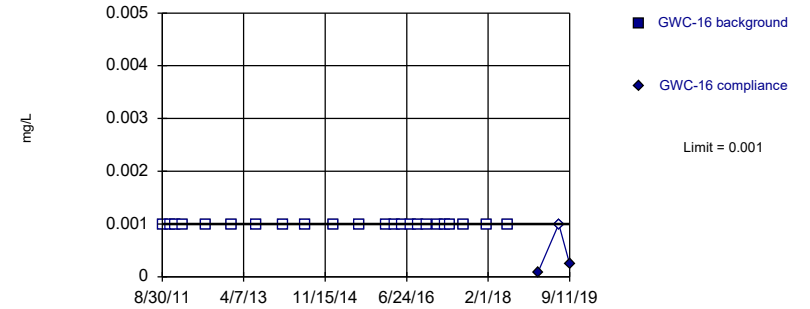


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

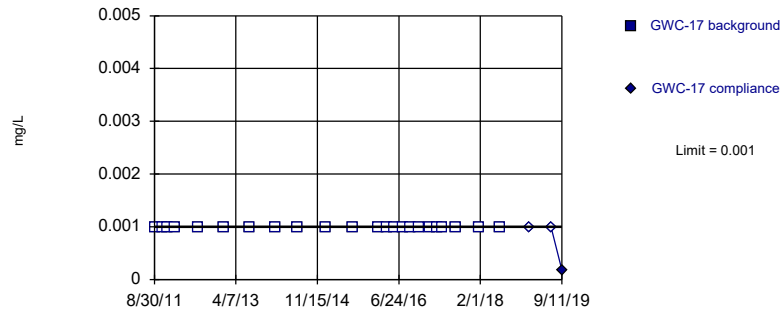


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

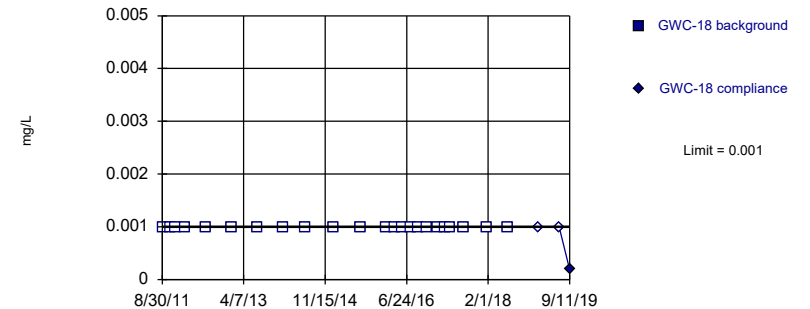


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



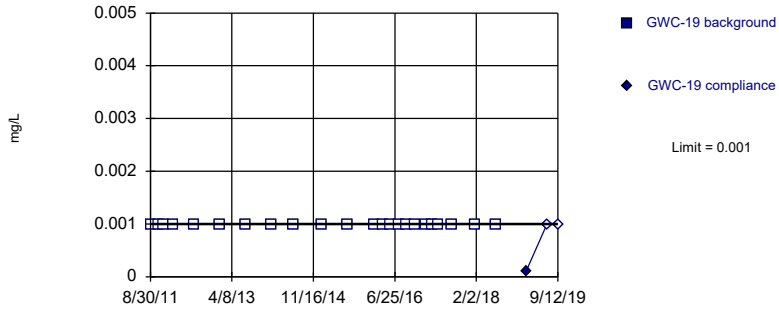
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



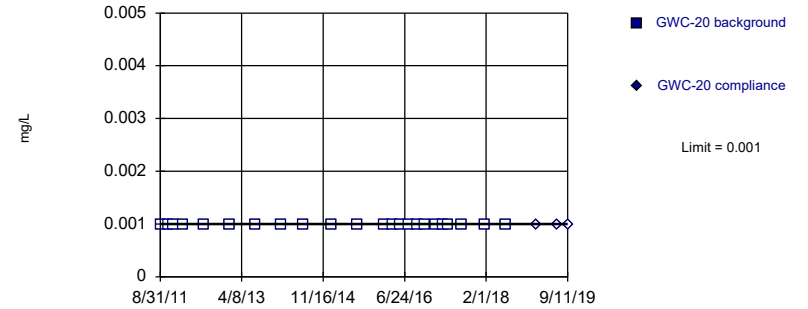
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



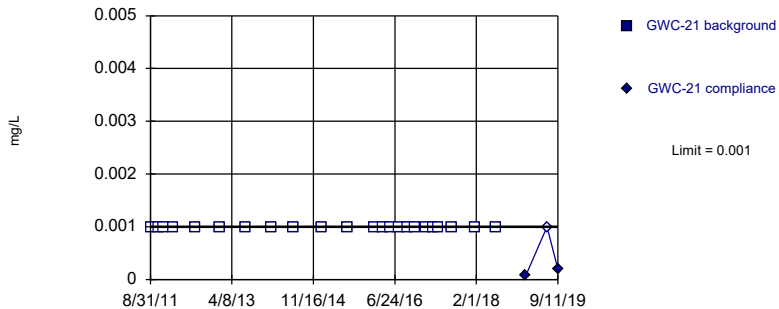
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



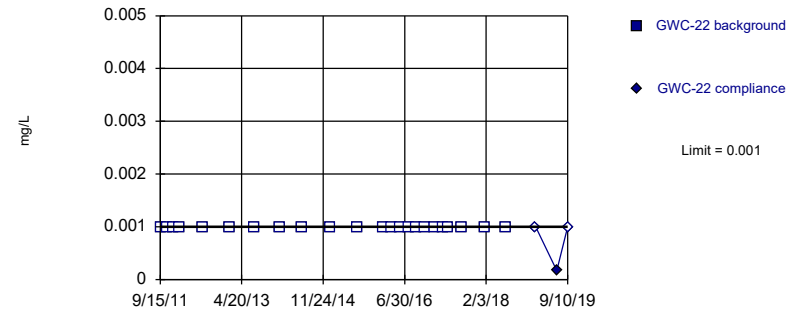
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



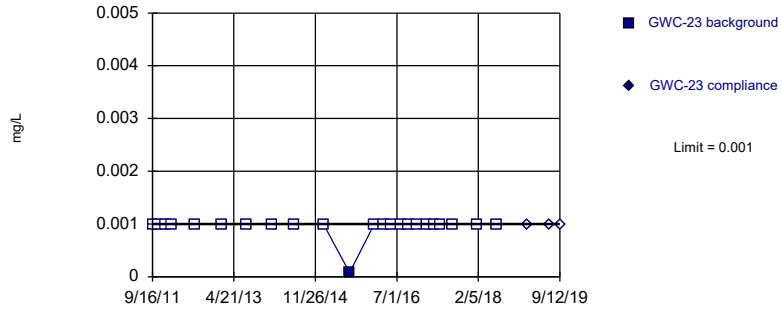
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
 Intrawell Non-parametric

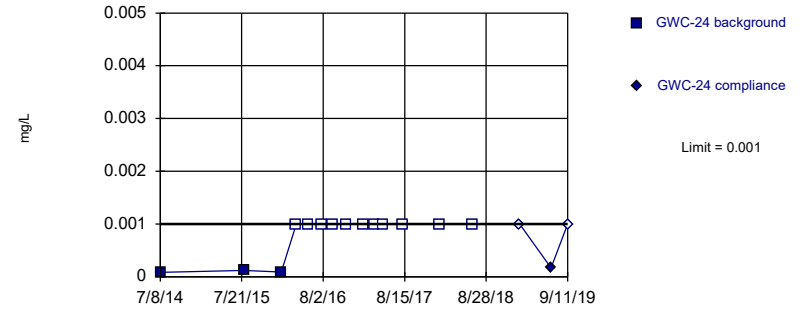


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

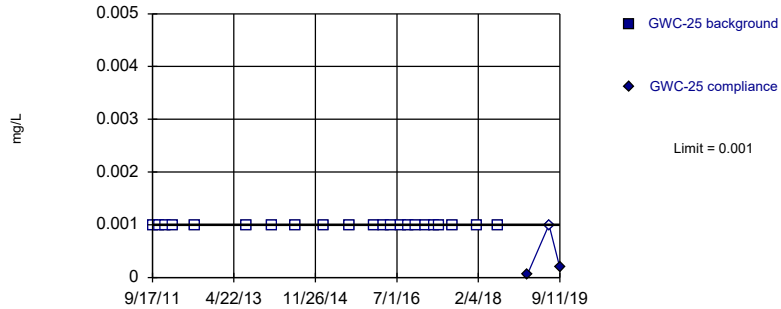


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

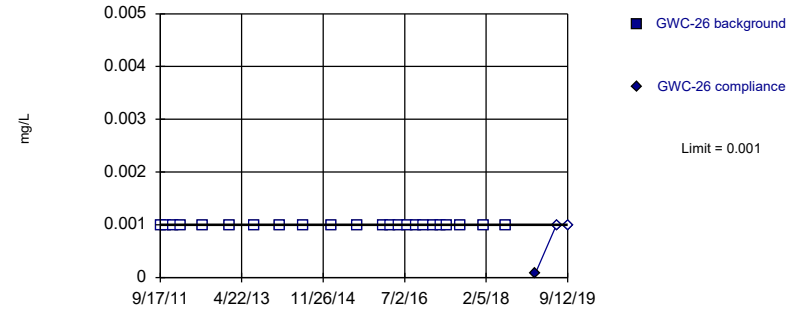


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

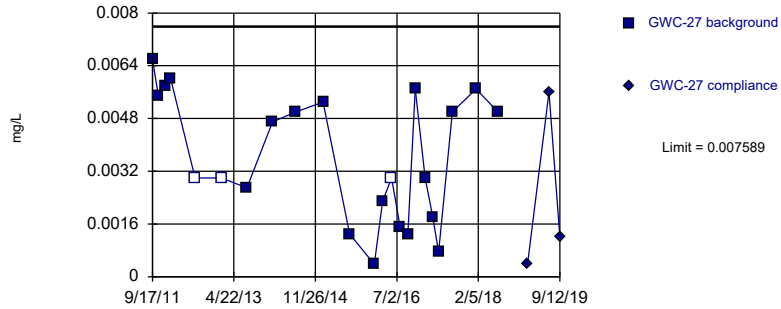


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

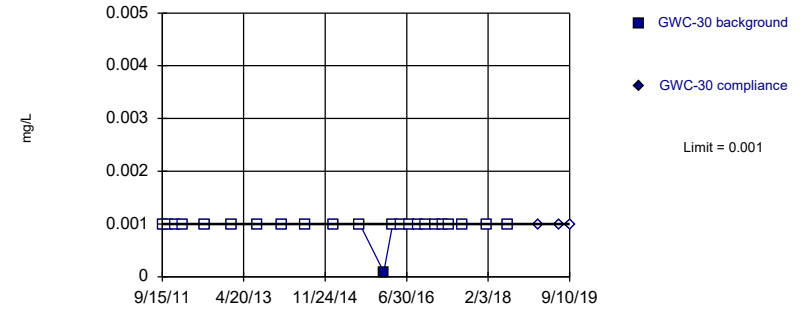


Background Data Summary: Mean=0.003666, Std. Dev.=0.001938, n=23, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9178, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

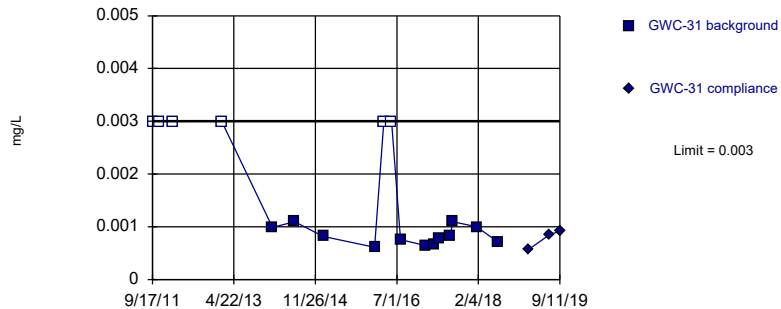


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

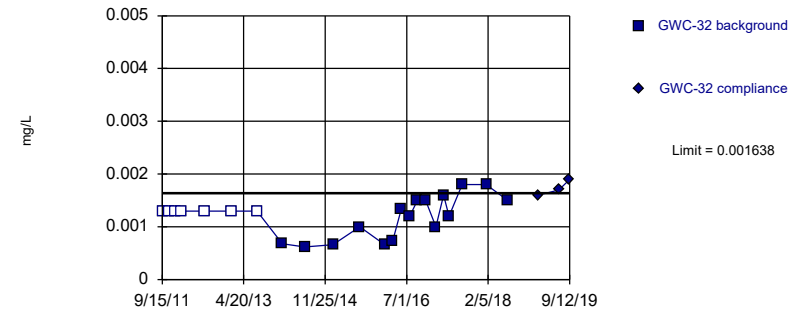


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

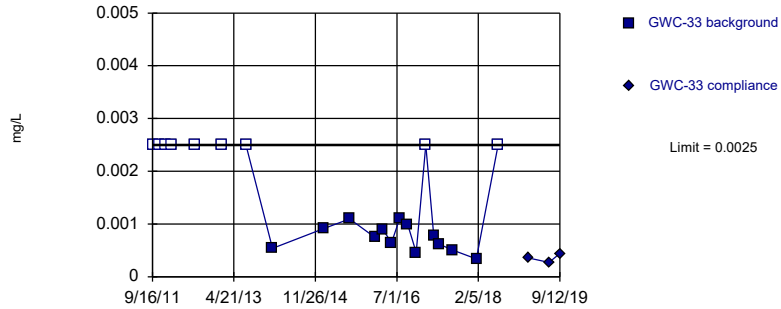


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0009112, Std. Dev.=0.0003589, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9131, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

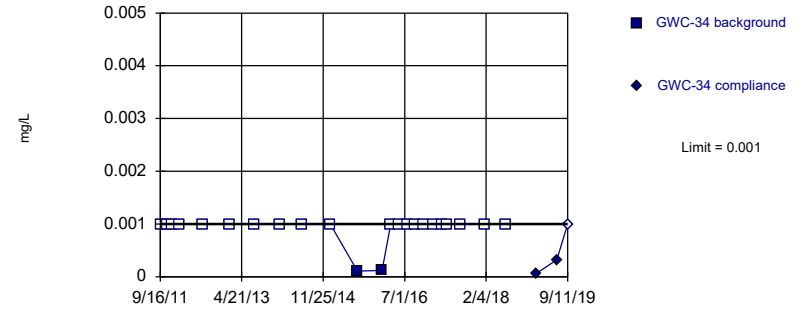


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 40.91% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

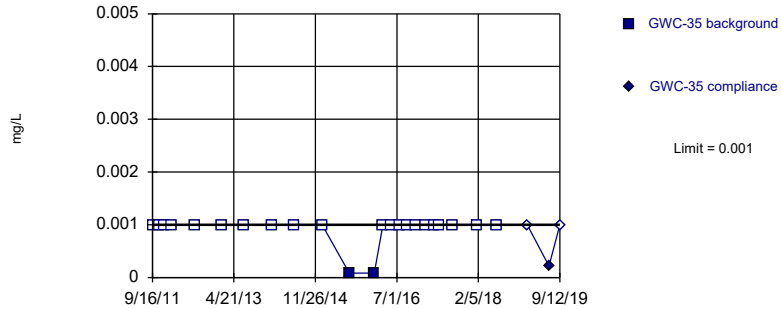


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:51 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

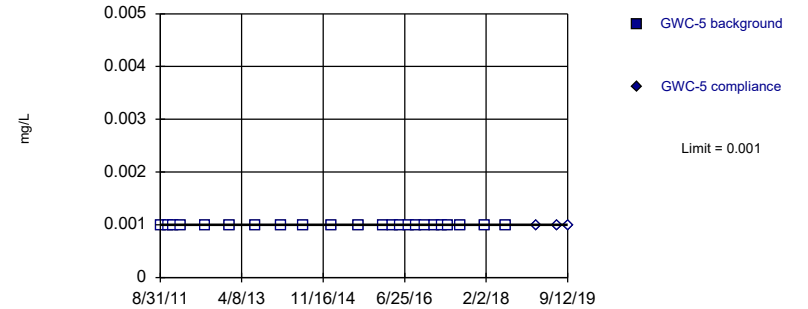


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

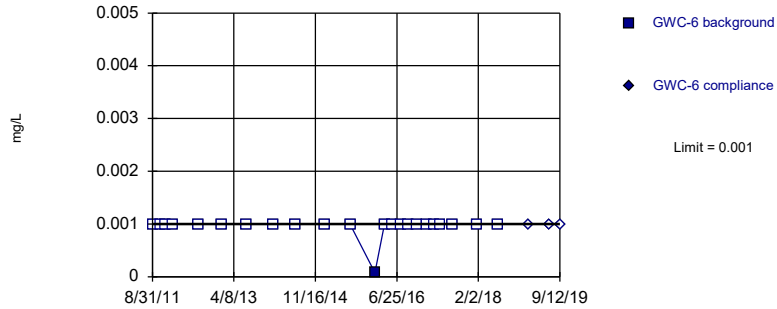


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

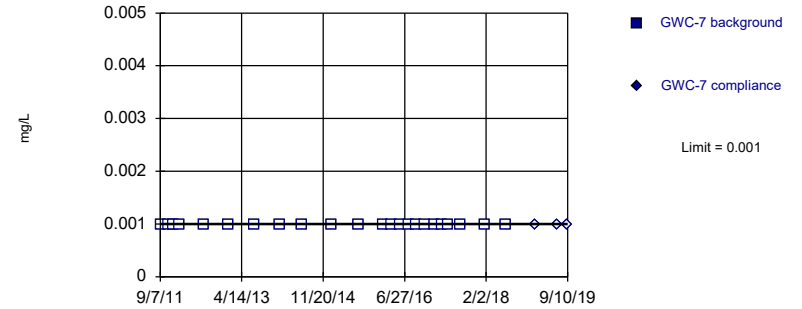


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

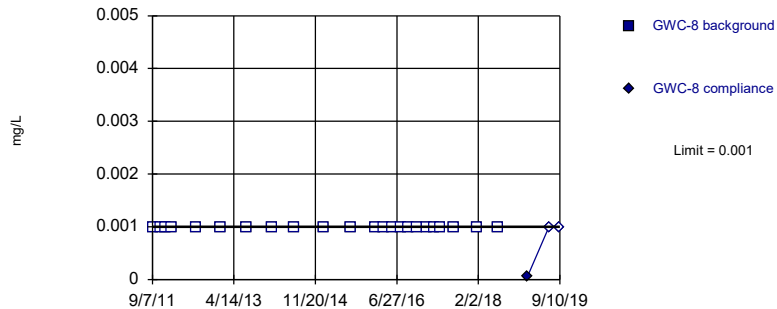


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

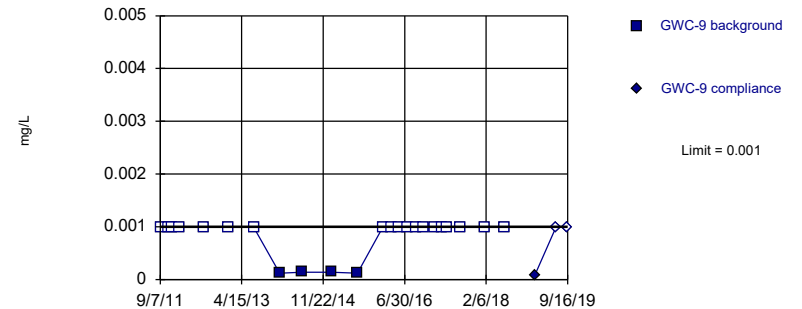


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

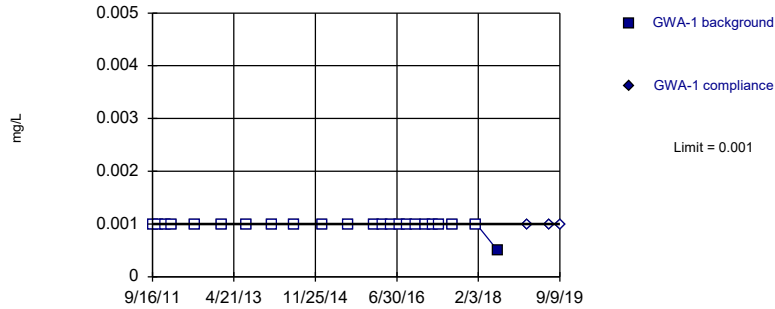


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

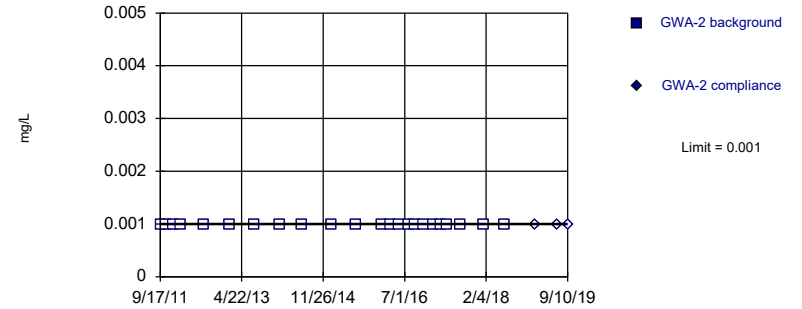


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

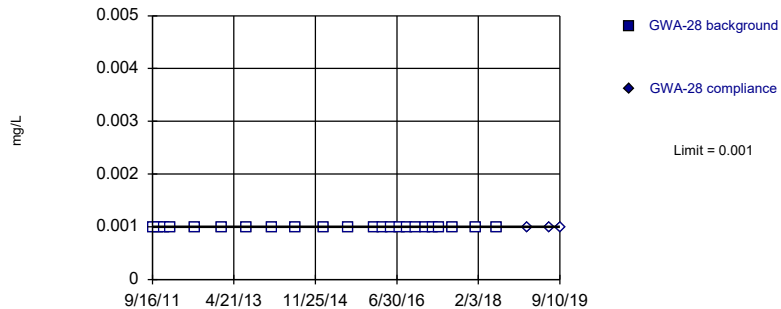


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

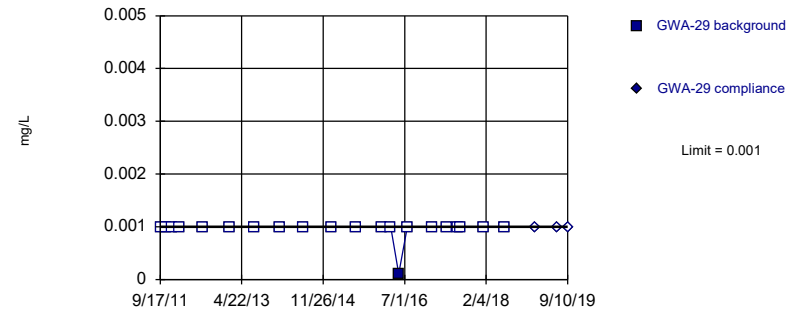


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

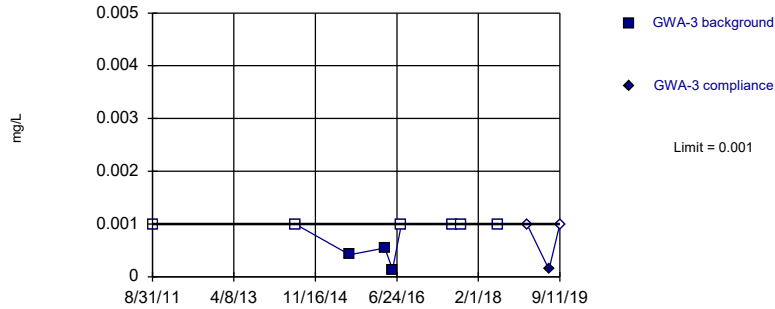


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

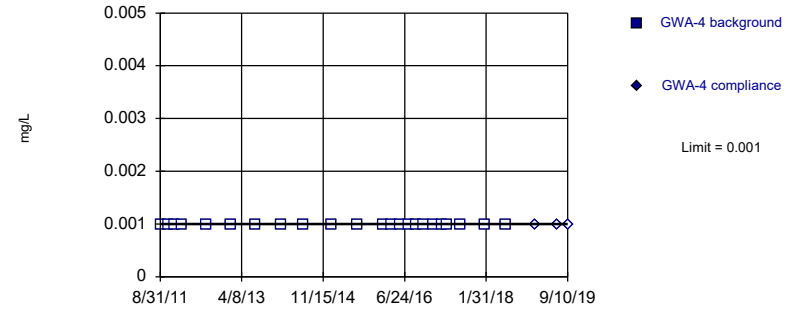


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

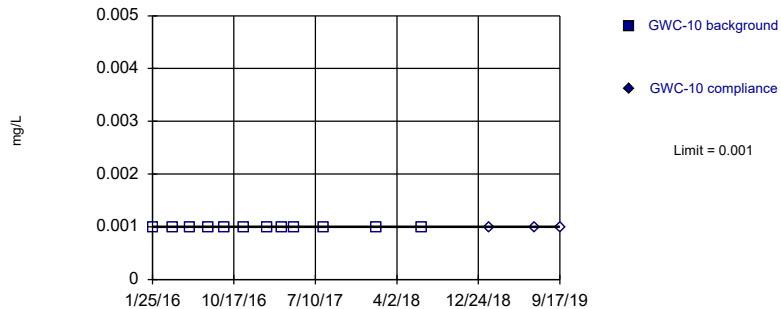


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

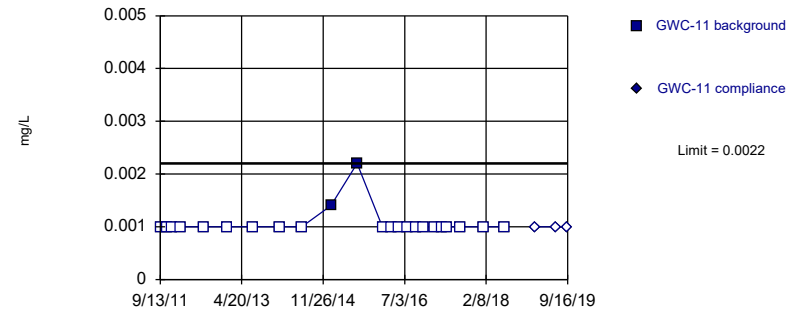


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

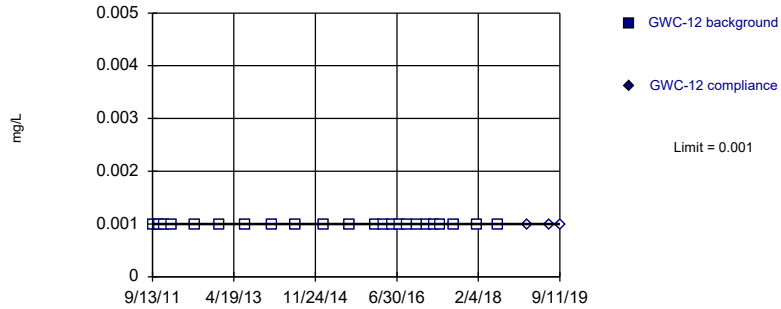


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

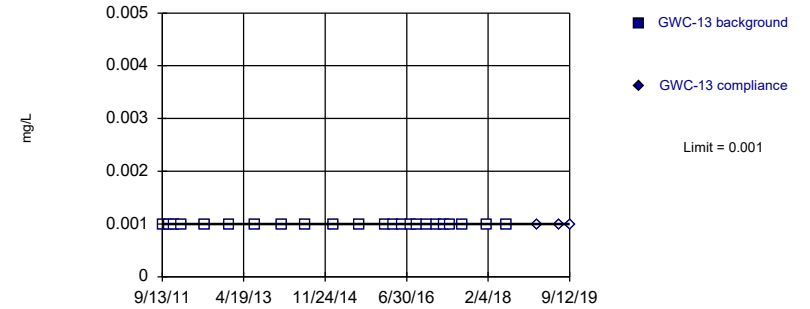


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

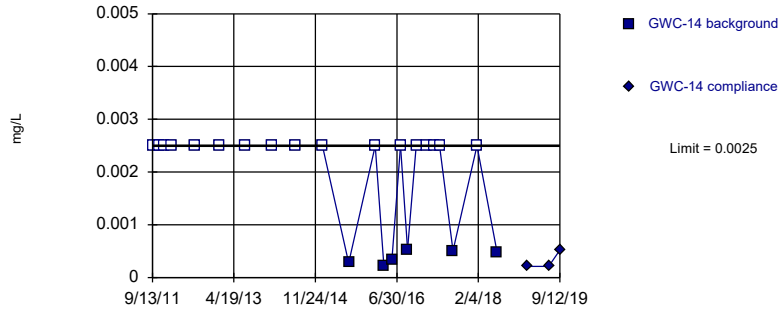


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

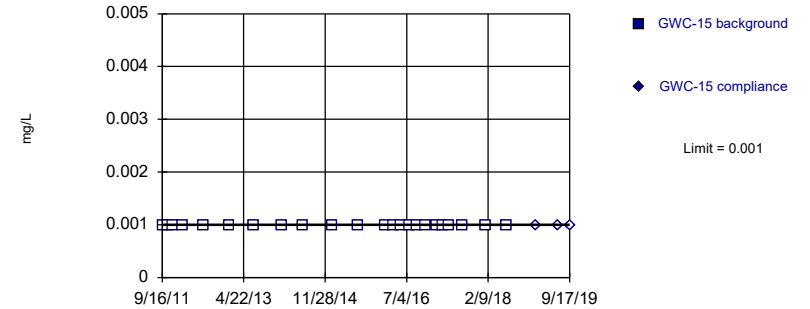


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 73.91% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

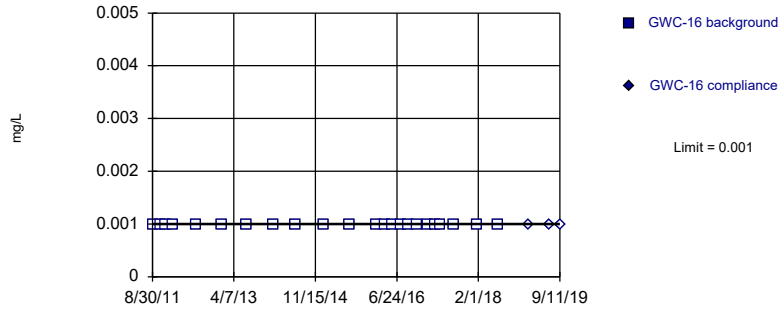


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

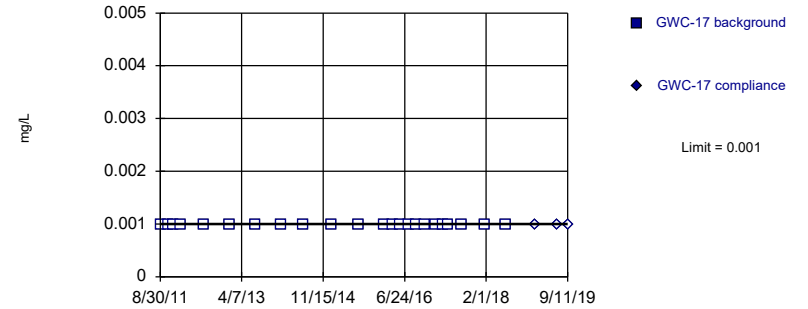


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

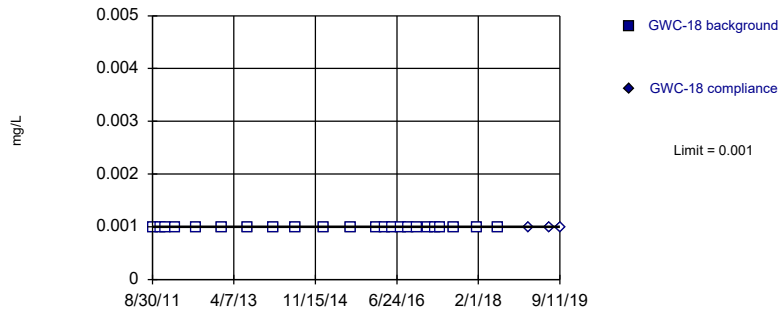


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

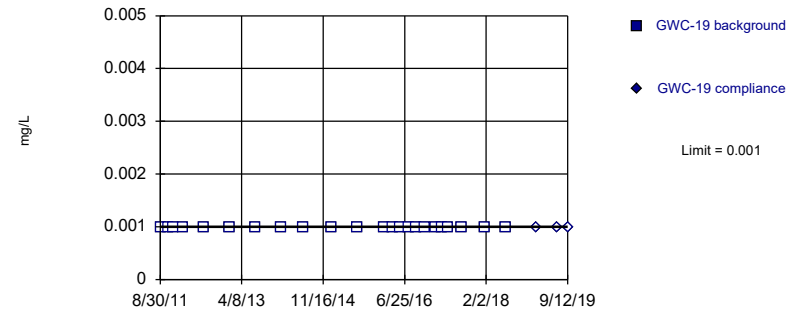


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



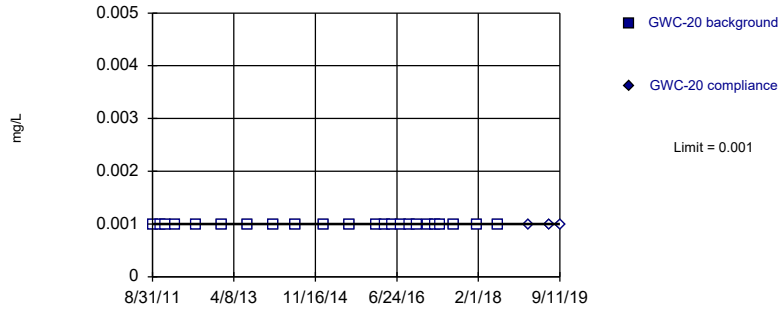
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

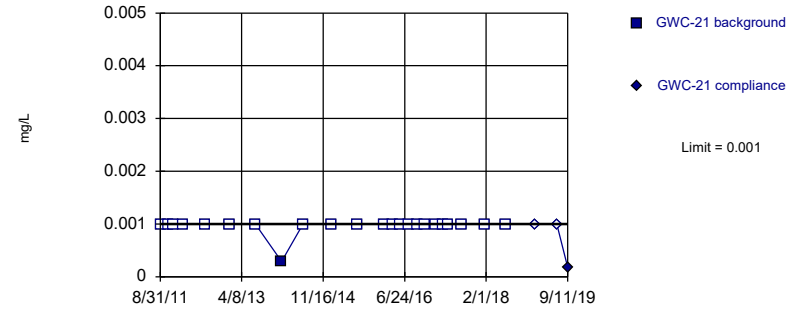


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:52 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

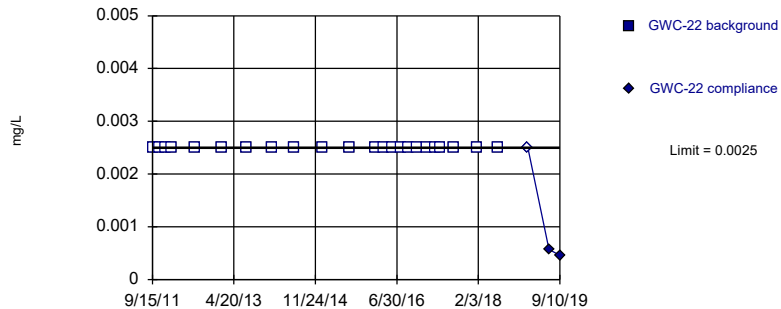


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

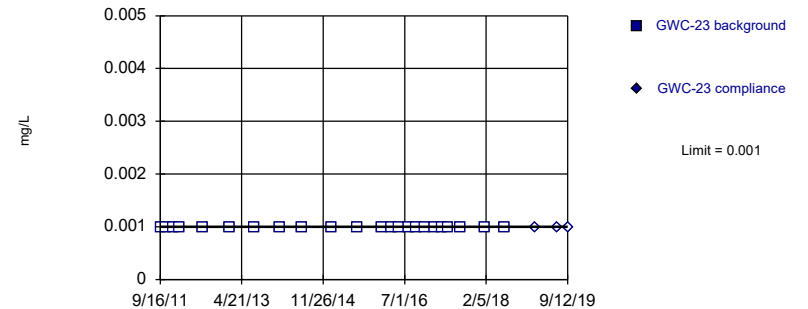


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

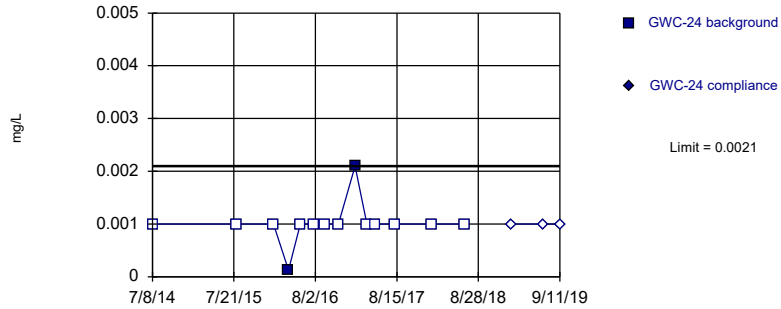


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

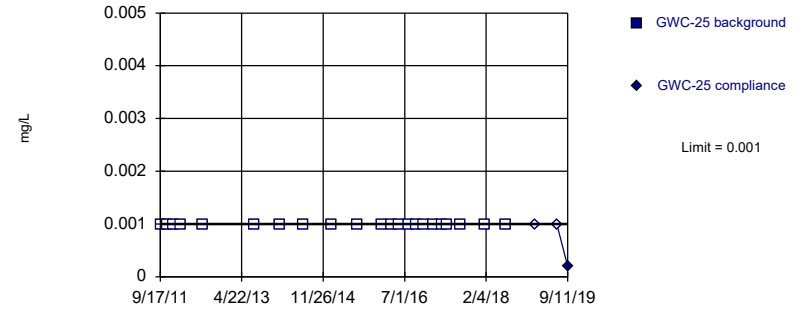


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

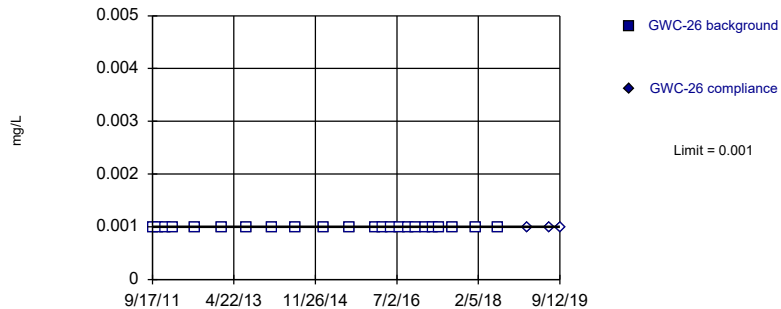


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

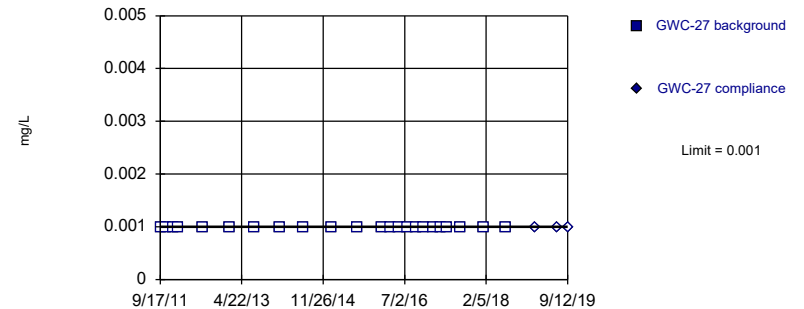


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



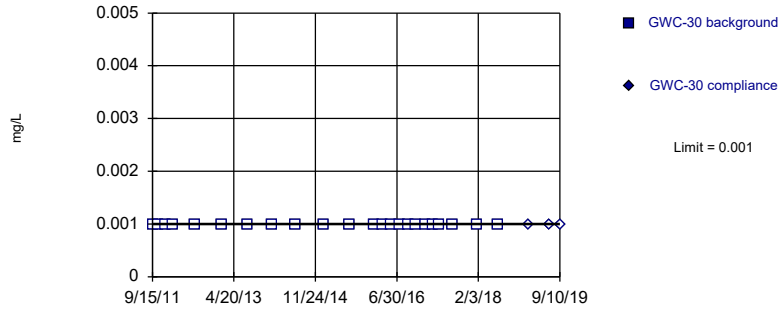
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



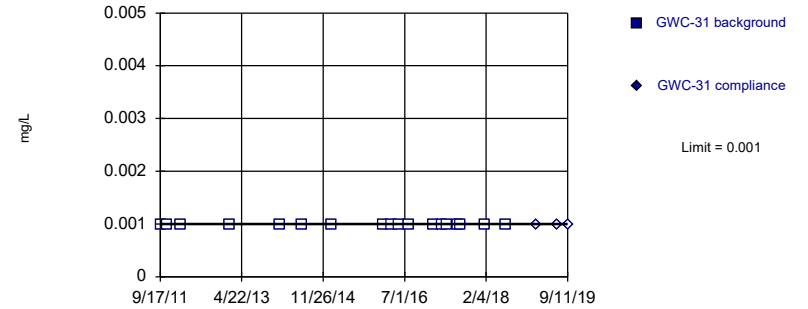
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



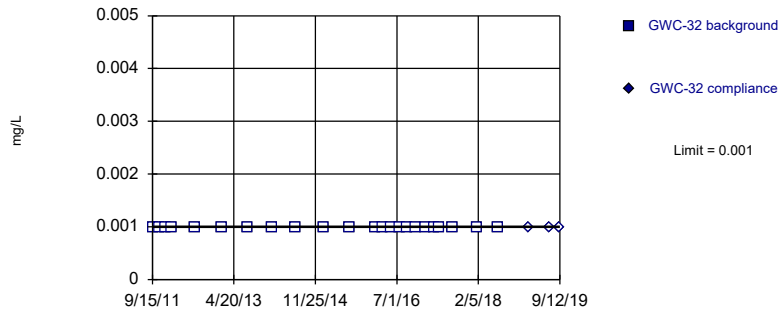
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



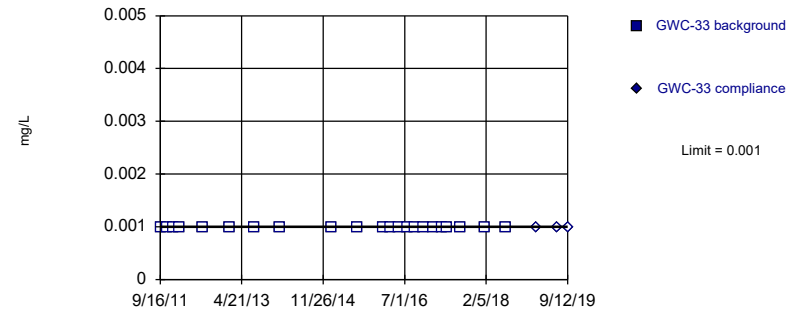
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

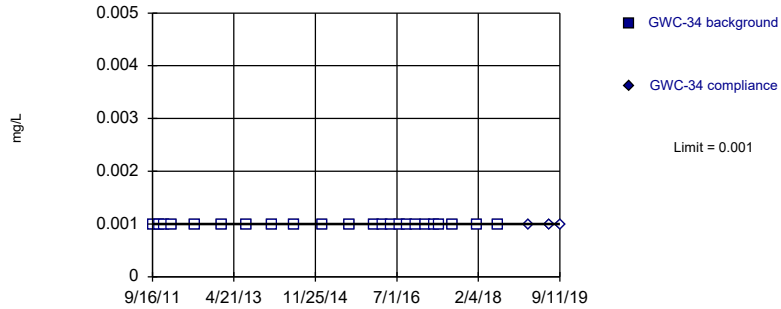


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

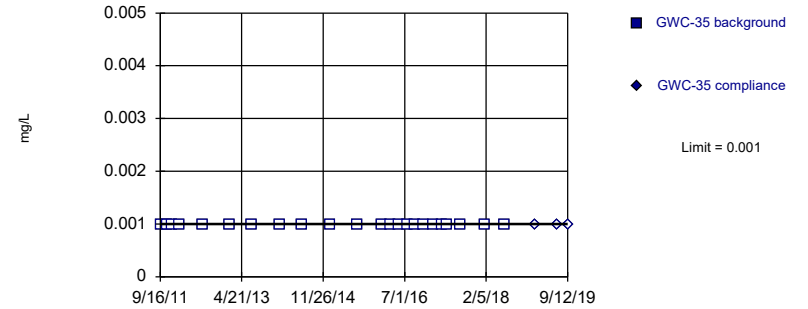


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

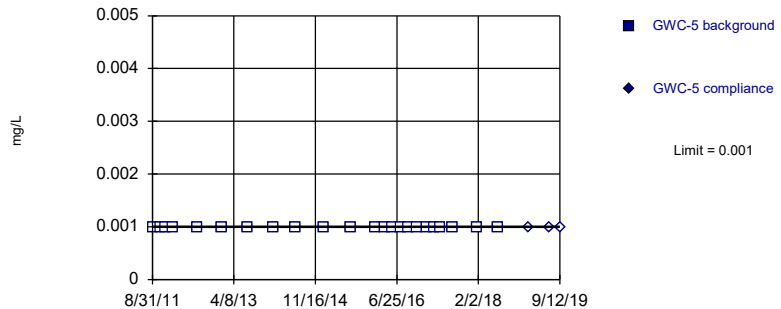


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

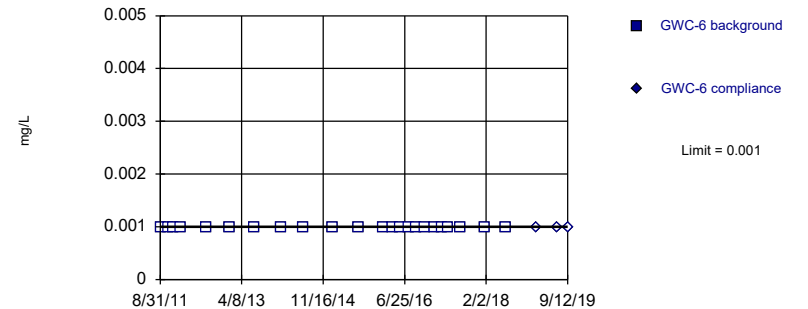


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

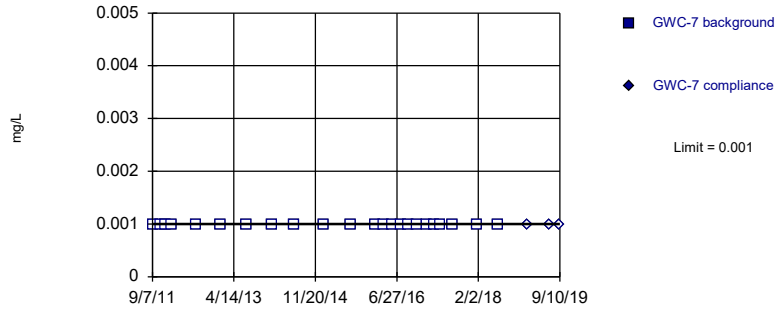


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

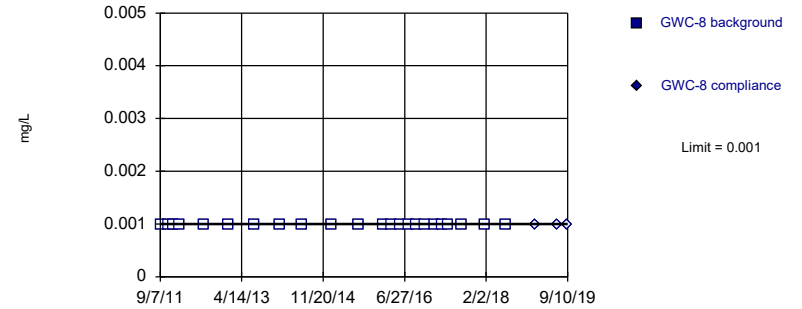


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

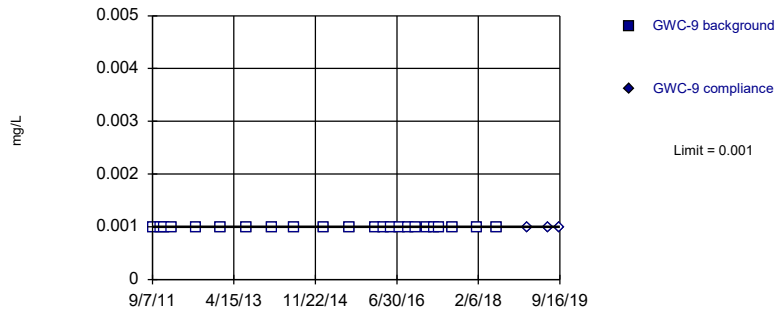


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

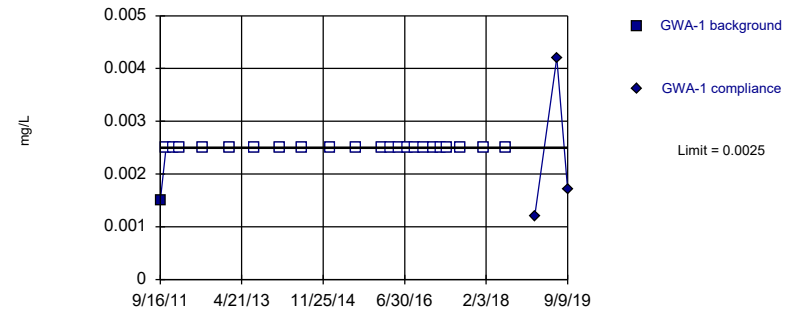


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

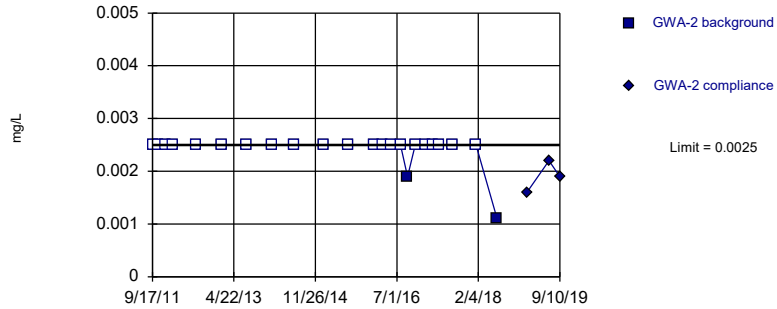


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

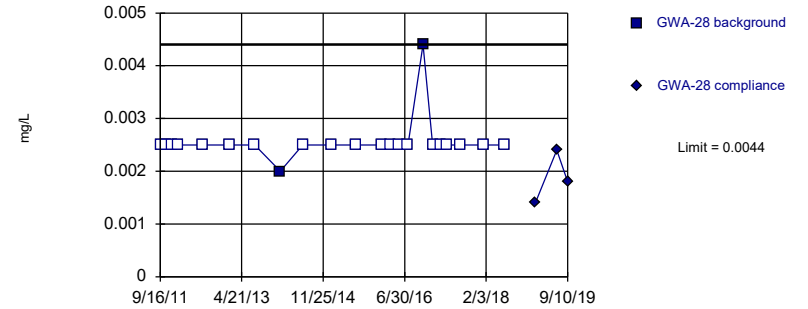


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

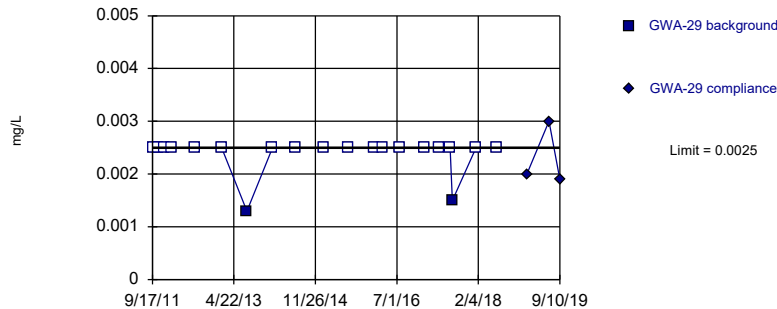


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

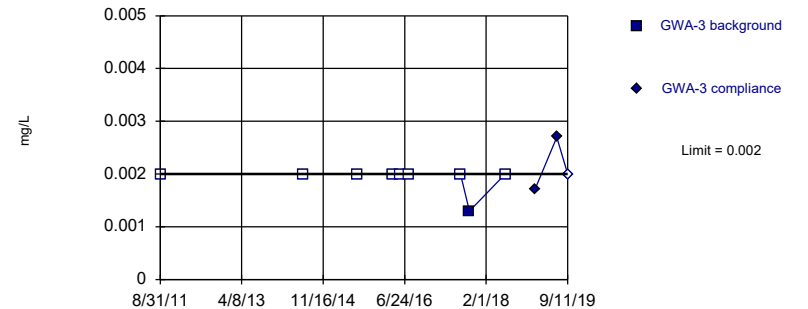


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:53 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

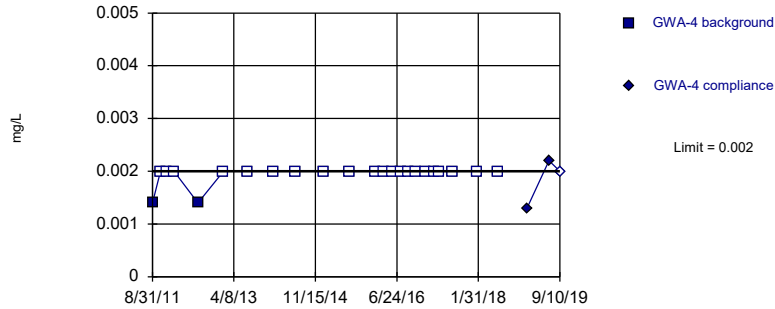
Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 9:53 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

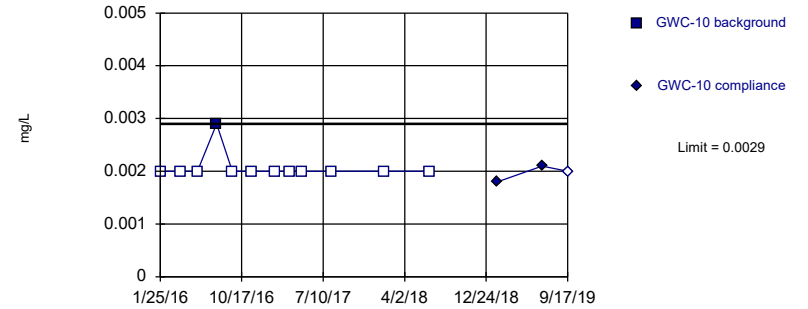
Within Limit  
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 9:53 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

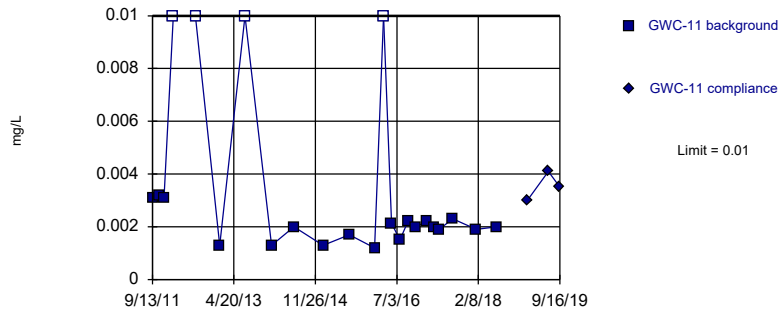
Within Limit  
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

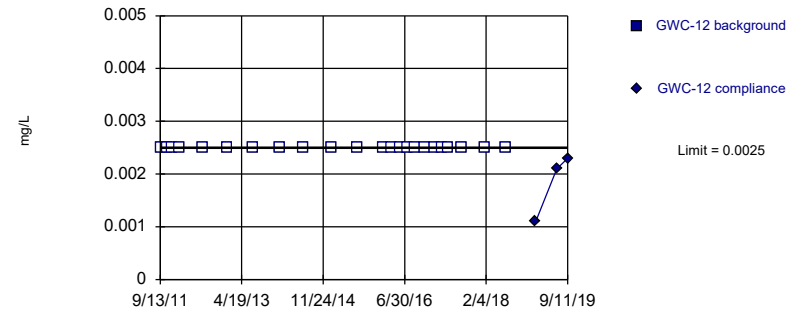
Within Limit  
Prediction Limit  
Intrawell Non-parametric



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 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 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit  
Prediction Limit  
Intrawell Non-parametric

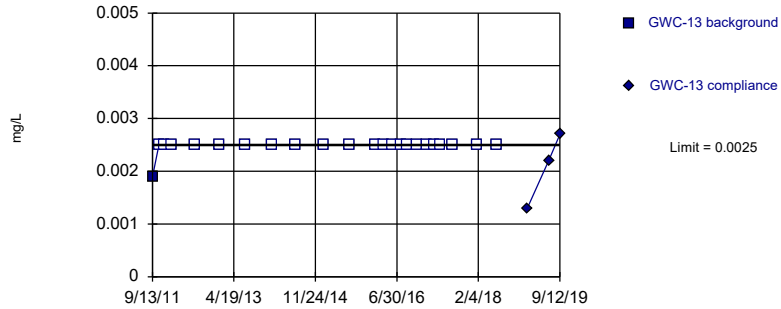


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

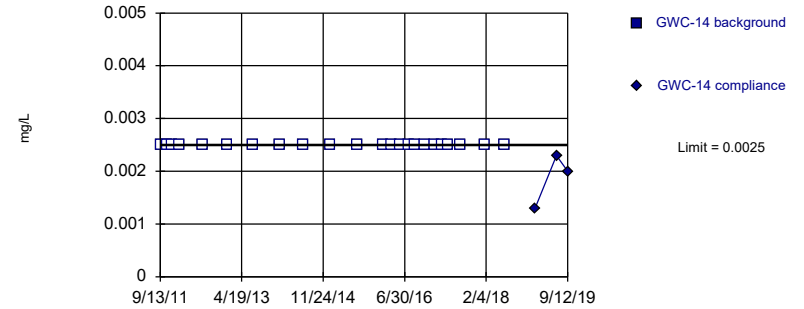


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

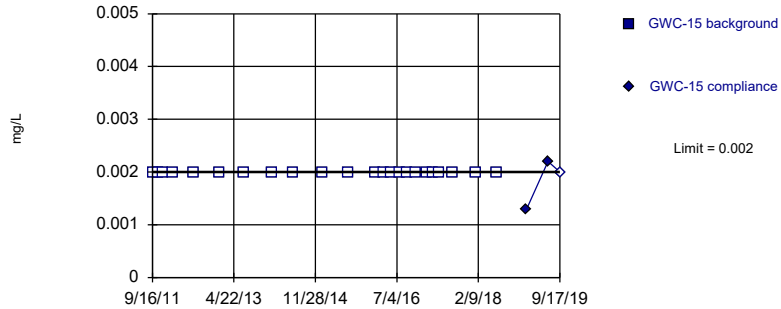


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

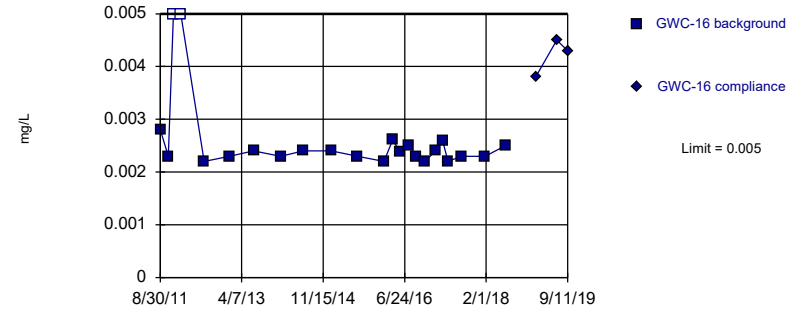


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



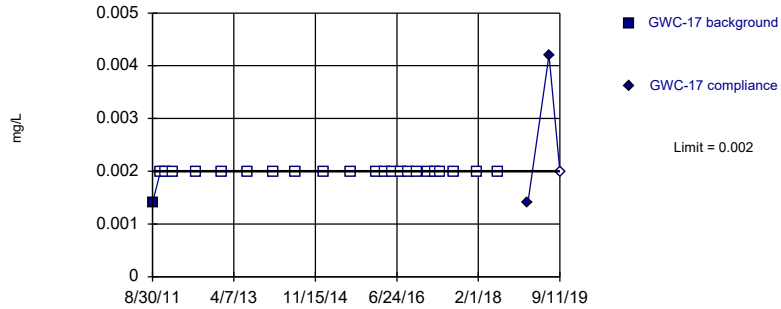
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 8.696% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

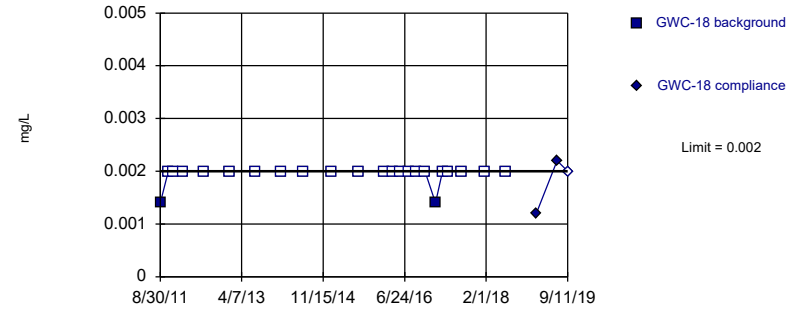


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

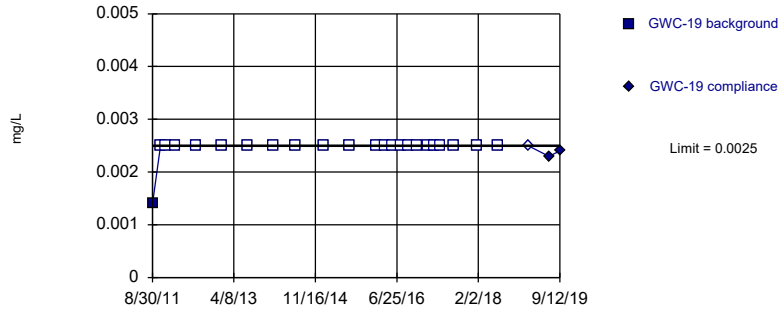


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

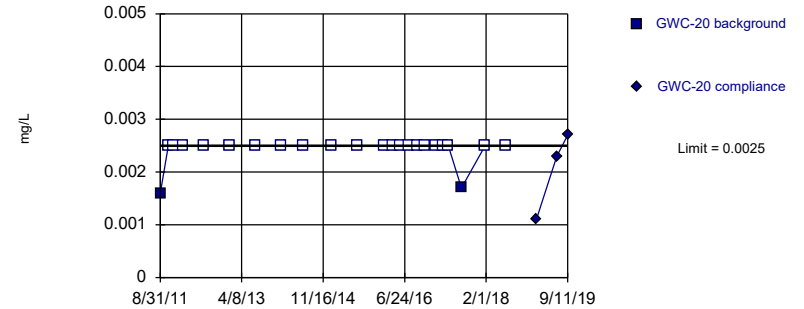


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

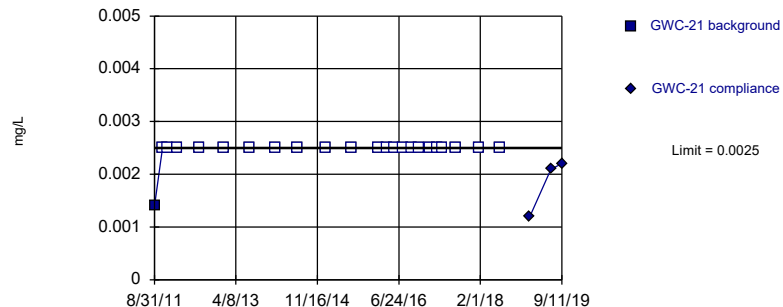


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

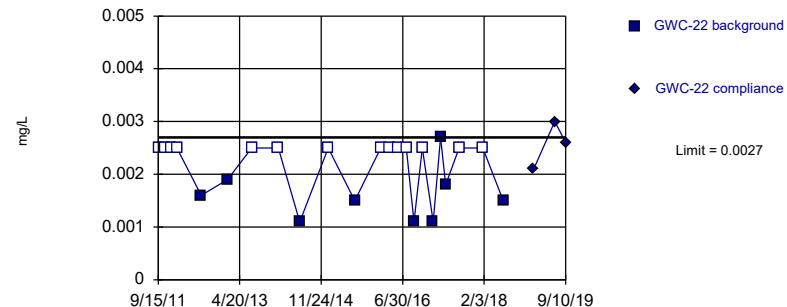


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

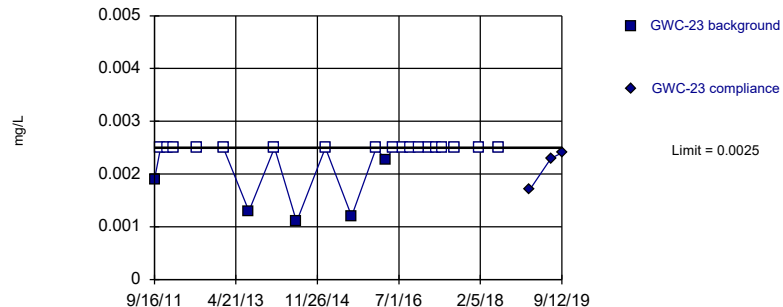


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 60.87% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

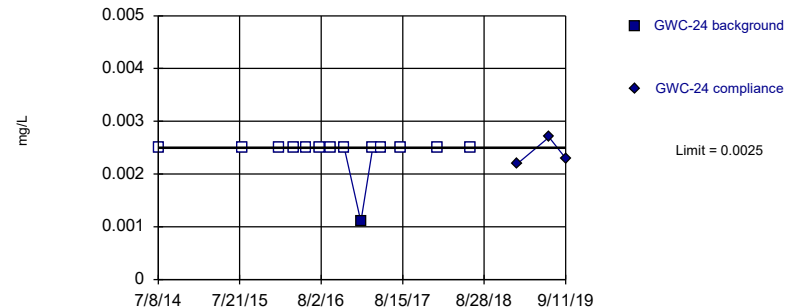


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

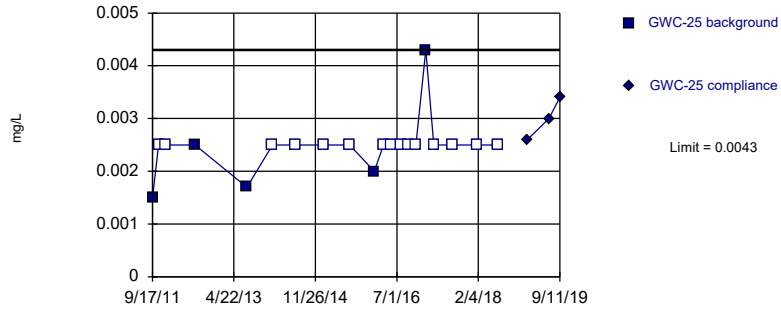


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

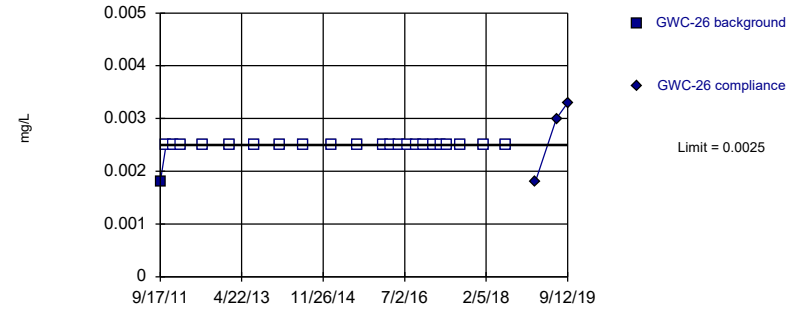


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

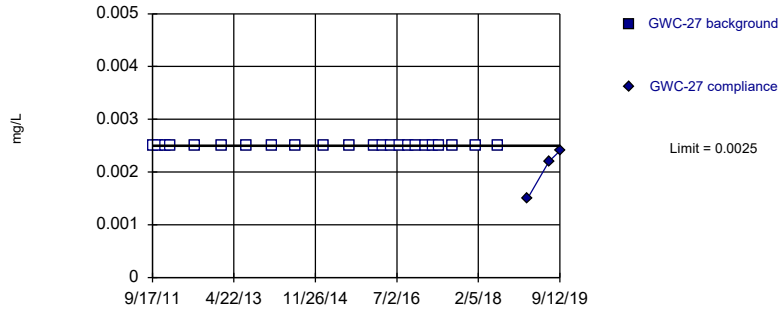


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

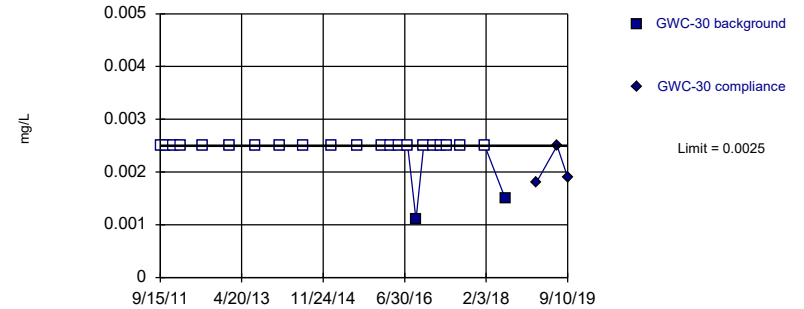


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

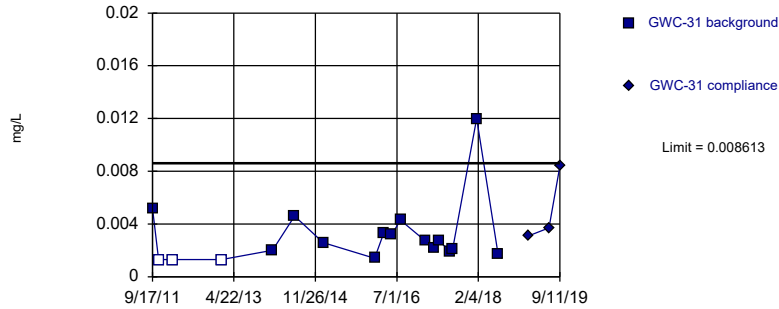


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

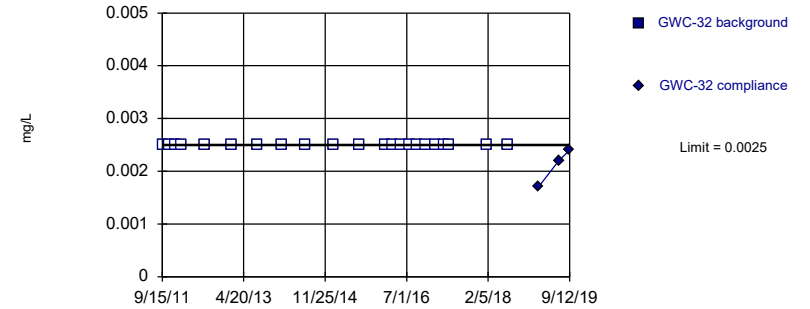


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.991, Std. Dev.=0.575, n=18, 16.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9177, critical = 0.858. Kappa = 2.15 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

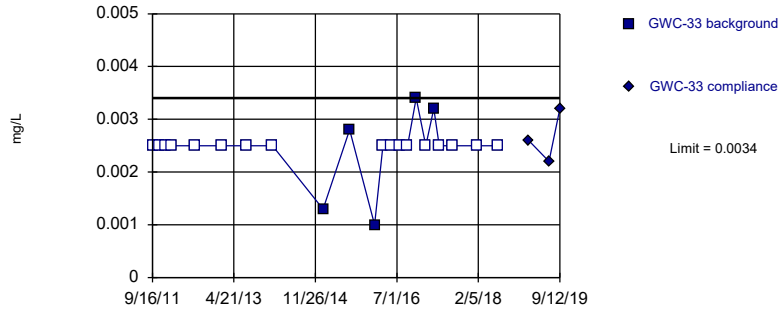


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

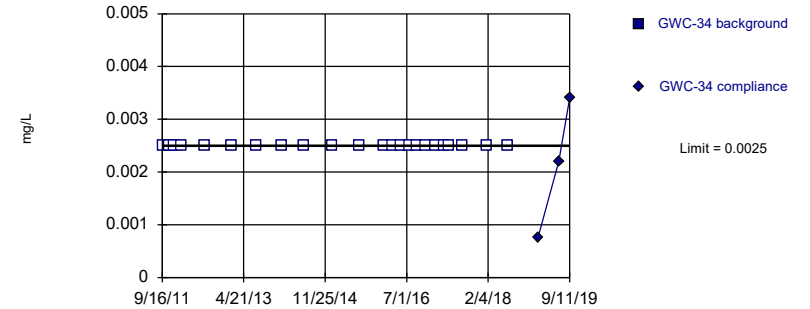


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 77.27% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

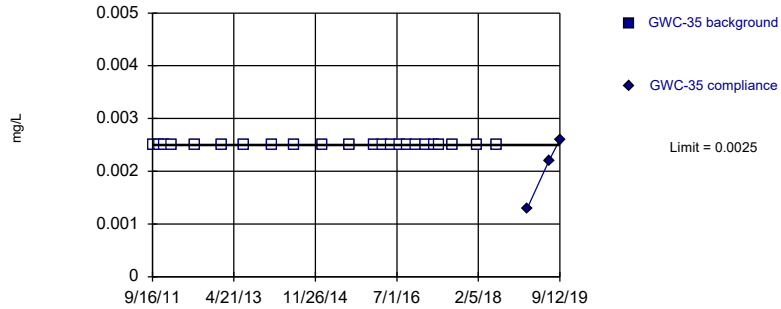


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:54 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

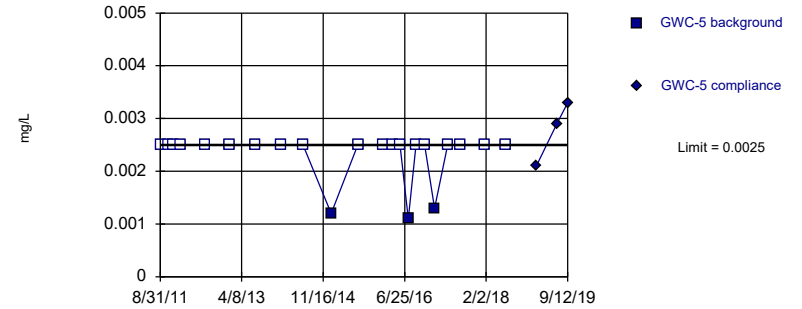


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

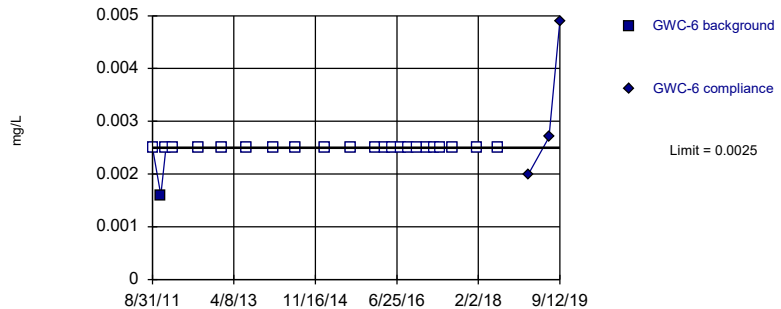


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

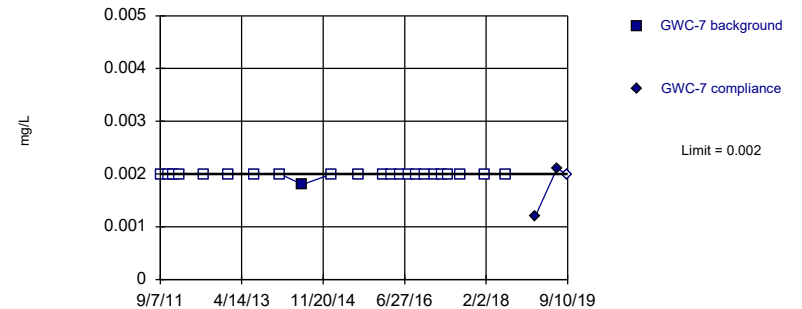


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

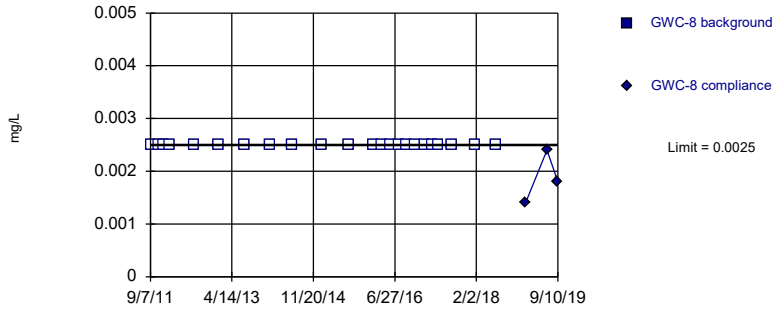


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

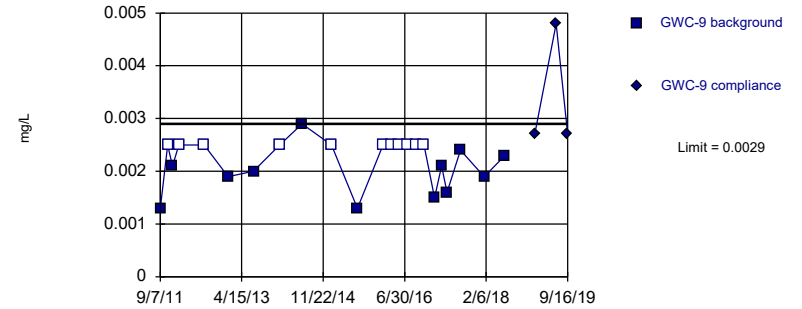


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

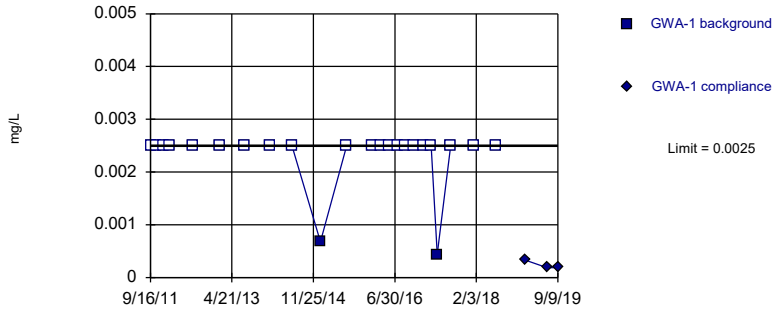


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 47.83% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

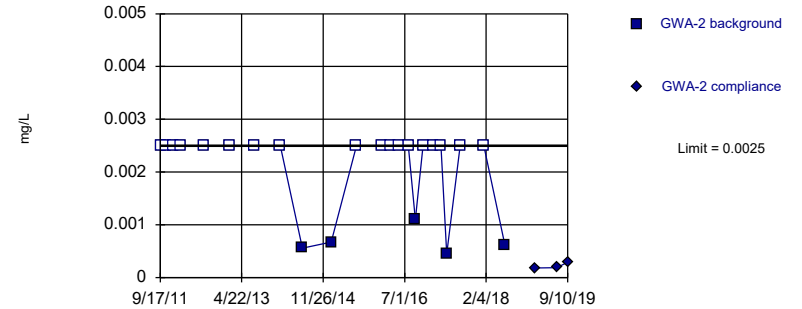


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

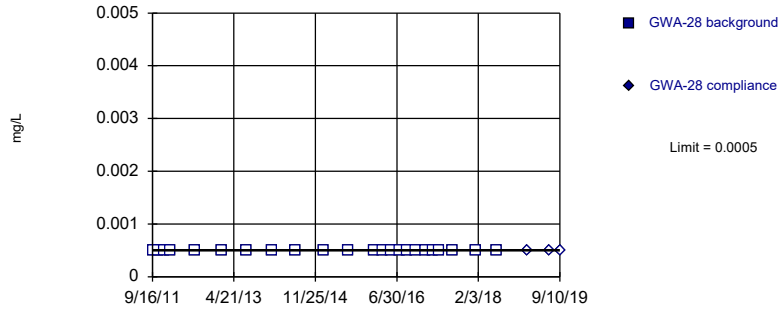


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

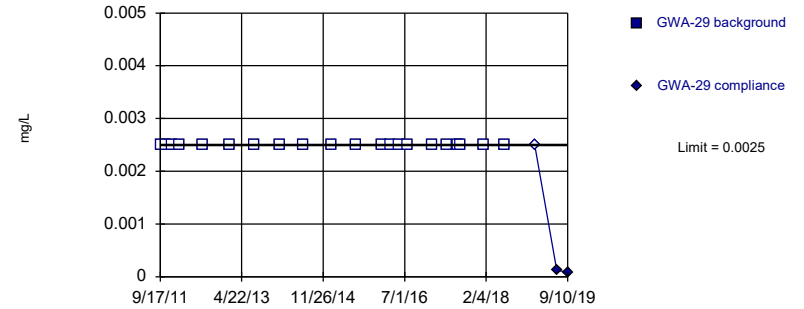


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

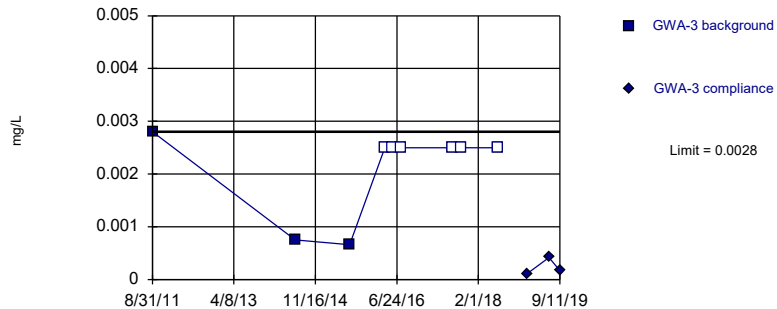


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

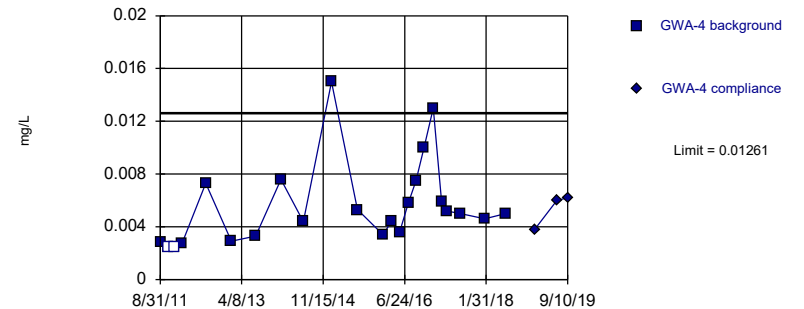


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

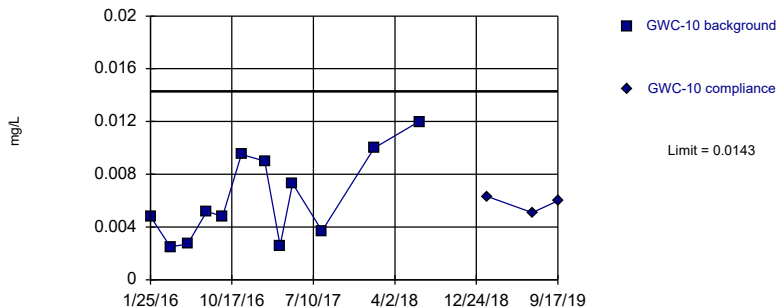


Background Data Summary (based on square root transformation): Mean=0.07262, Std. Dev.=0.01959, n=23, 8.696% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8982, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

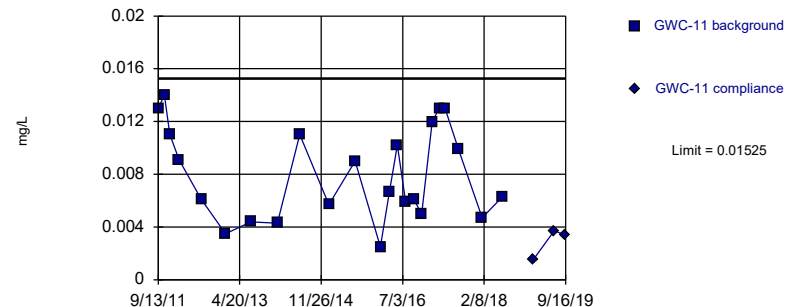


Background Data Summary: Mean=0.006177, Std. Dev.=0.003274, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9058, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



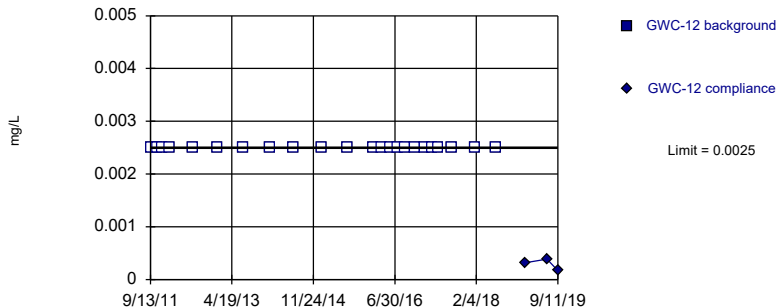
Background Data Summary: Mean=0.008102, Std. Dev.=0.00353, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9292, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



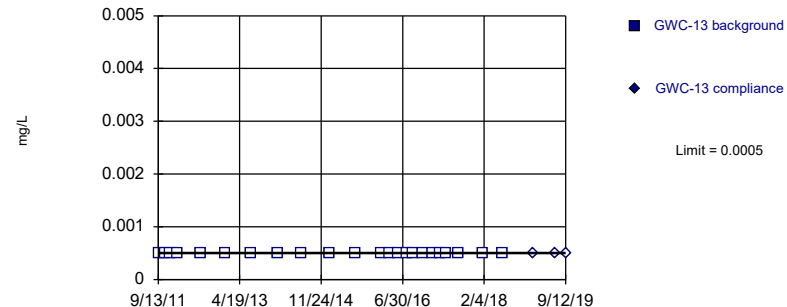
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



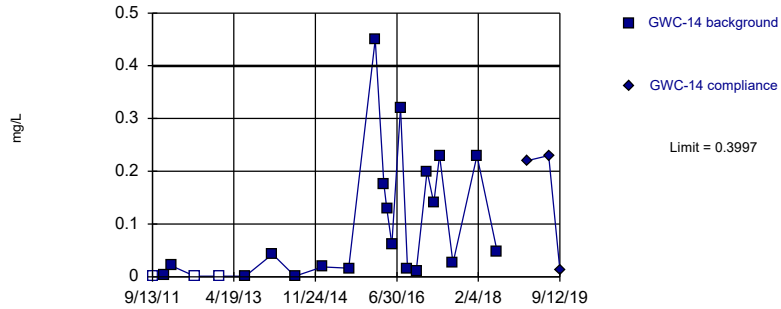
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Parametric

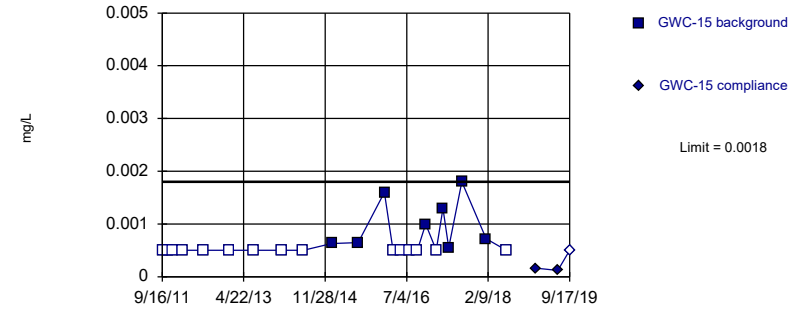


Background Data Summary (based on square root transformation): Mean=0.2391, Std. Dev.=0.1942, n=23, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8905, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

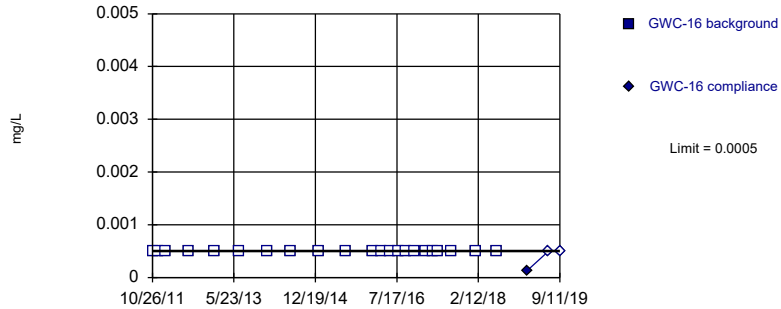


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 65.22% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

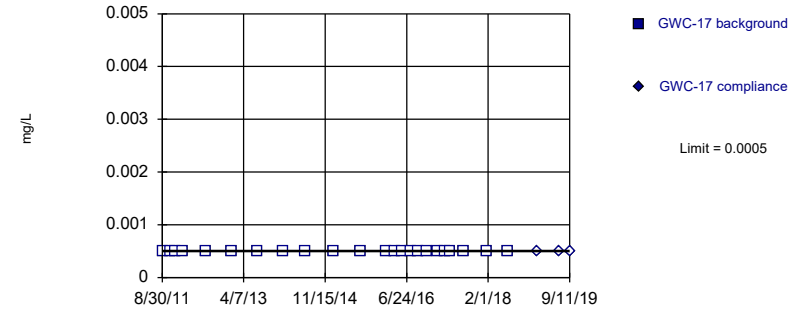


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

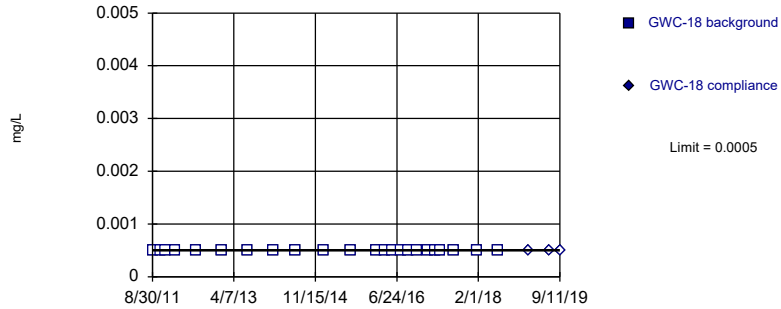


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

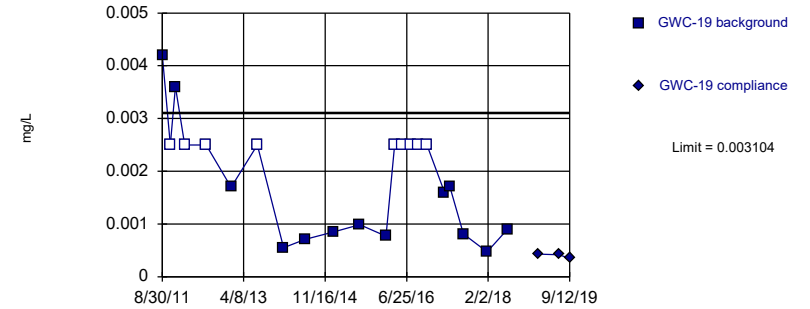


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

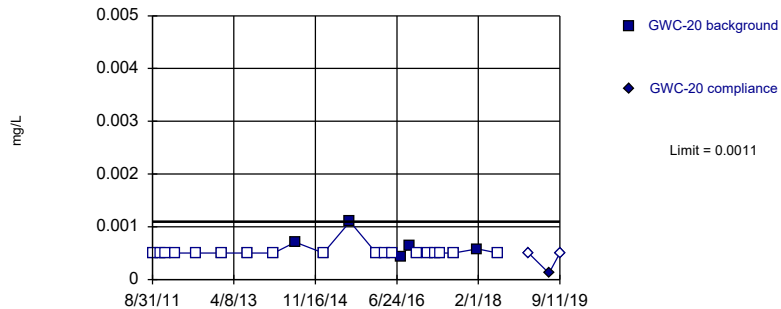


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001198, Std. Dev.=0.000933, n=22, 40.91% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8901, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

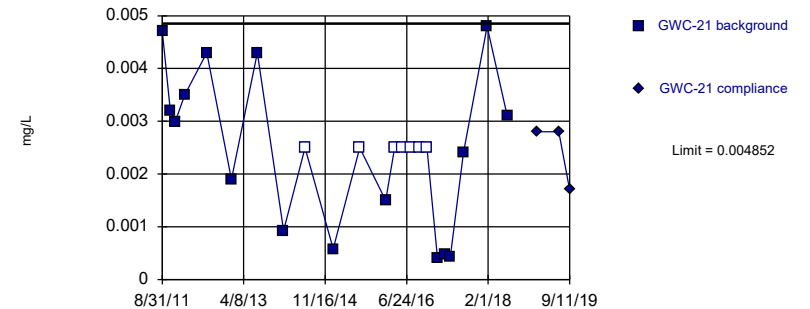


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:55 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

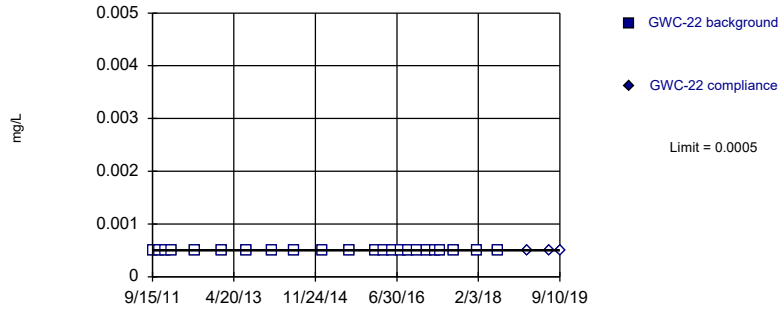
Prediction Limit  
Intrawell Parametric



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 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

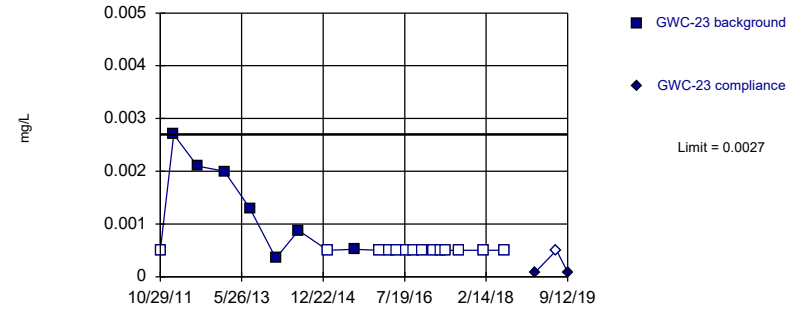
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. 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 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

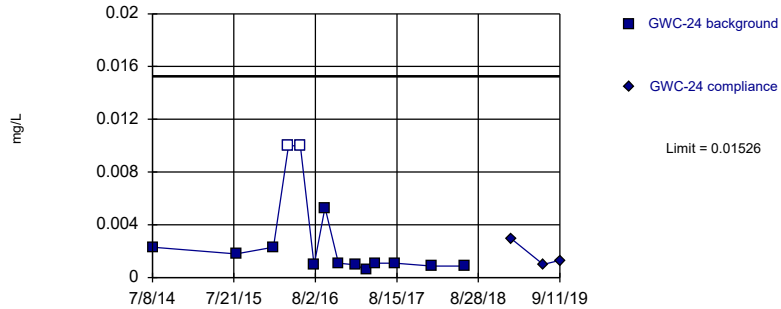
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

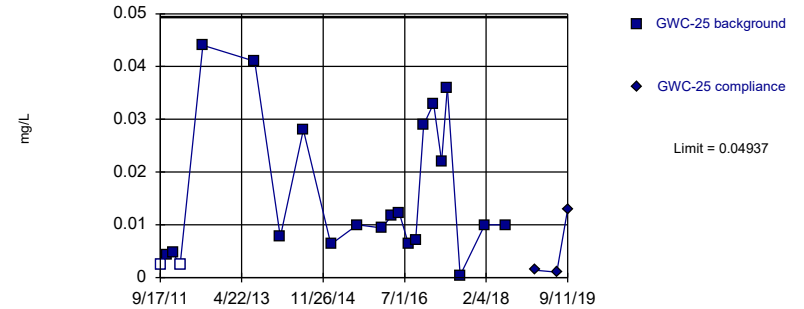
Within Limit Prediction Limit  
Intrawell Parametric



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 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit Prediction Limit  
Intrawell Parametric

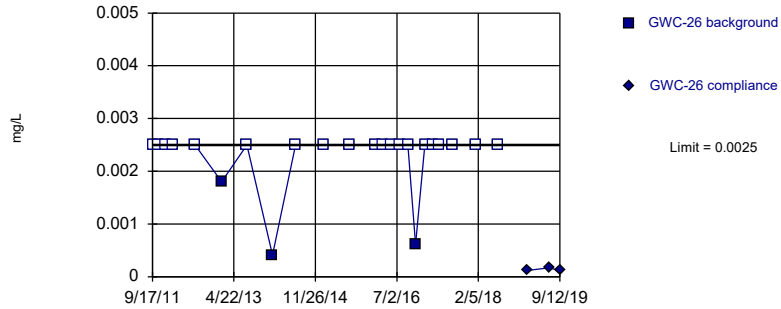


Background Data Summary (based on square root transformation): Mean=0.1123, Std. Dev.=0.05377, n=22, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

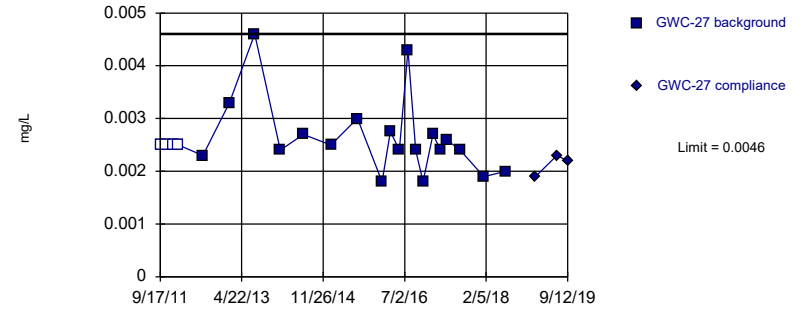


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

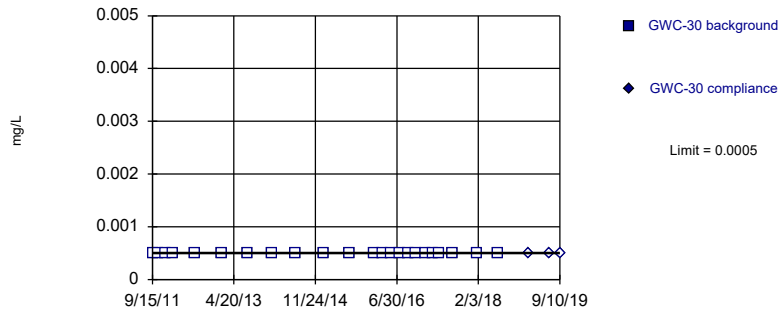


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 17.39% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

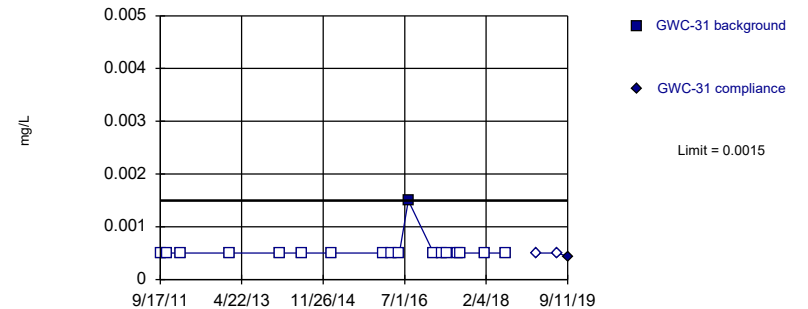


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

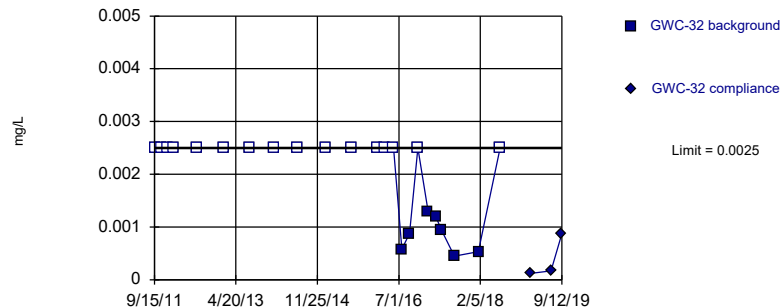


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

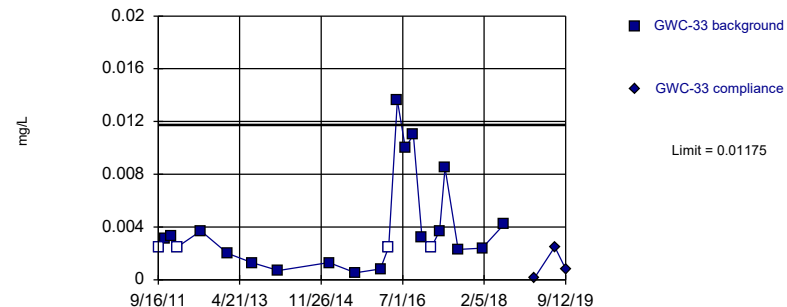


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 69.57% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

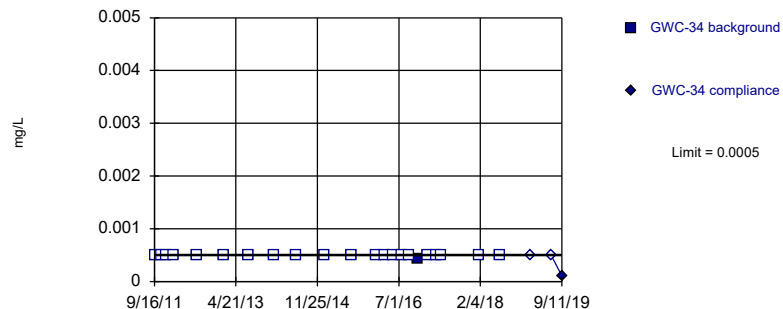


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05328, Std. Dev.=0.02697, n=22, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8812, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

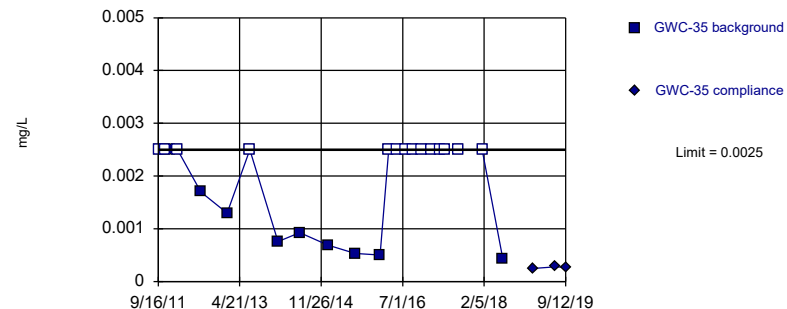


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



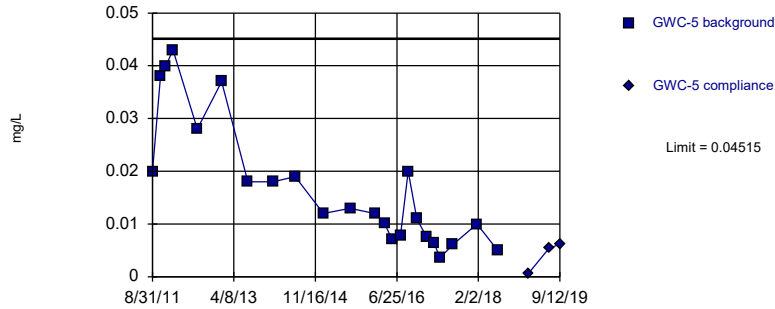
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 60.87% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

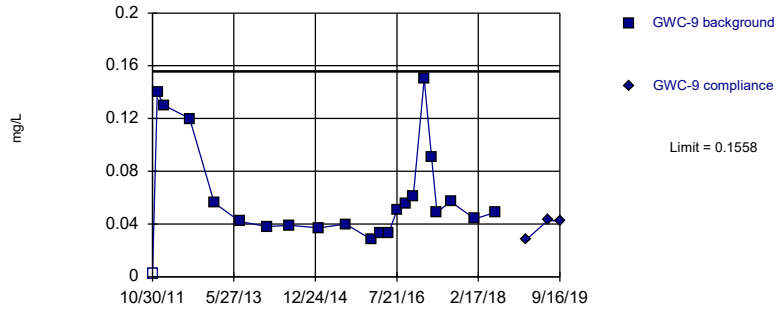
Prediction Limit

Intrawell Parametric



Within Limit

Prediction Limit  
Intrawell Parametric

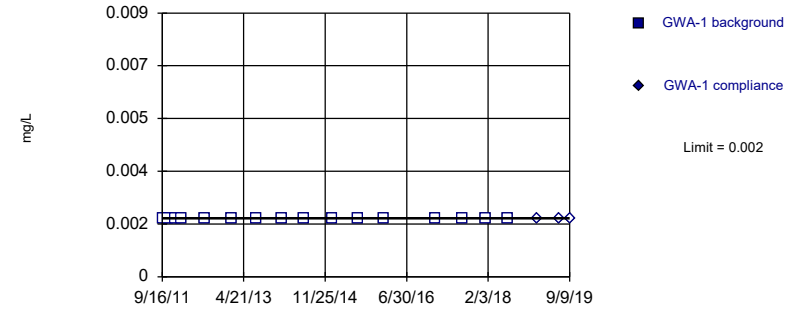


Background Data Summary (based on square root transformation): Mean=0.2353, Std. Dev.=0.07802, n=22, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8952, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

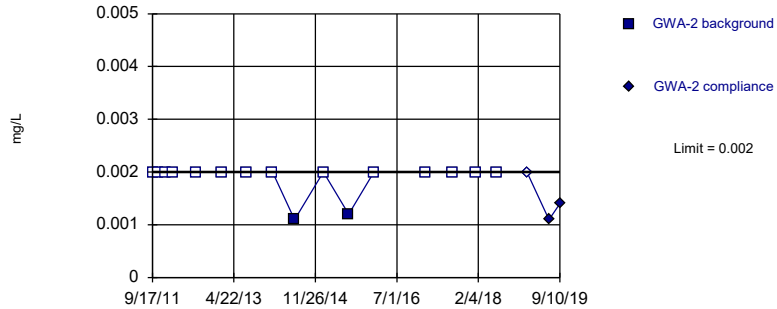


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

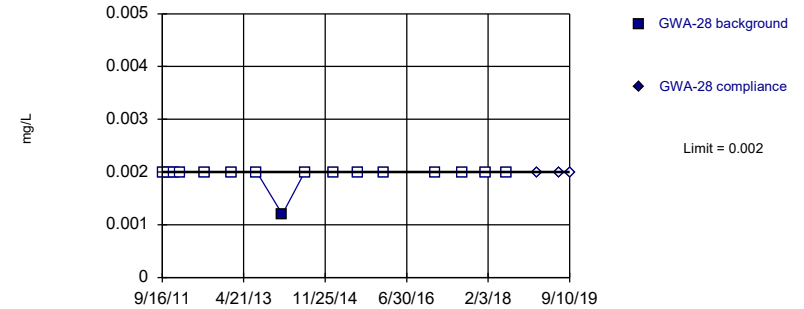


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

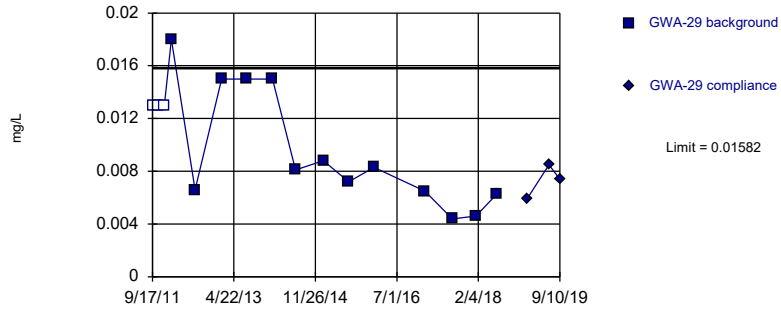


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

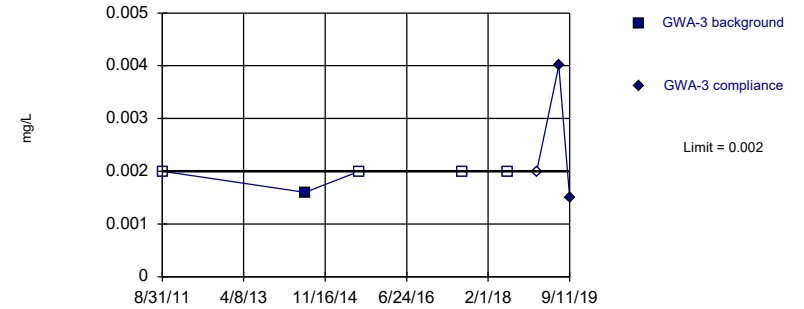


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.007974, Std. Dev.=0.003538, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9107, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Copper Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

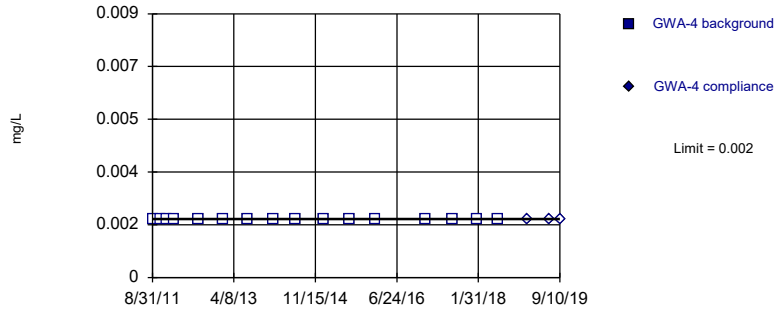


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

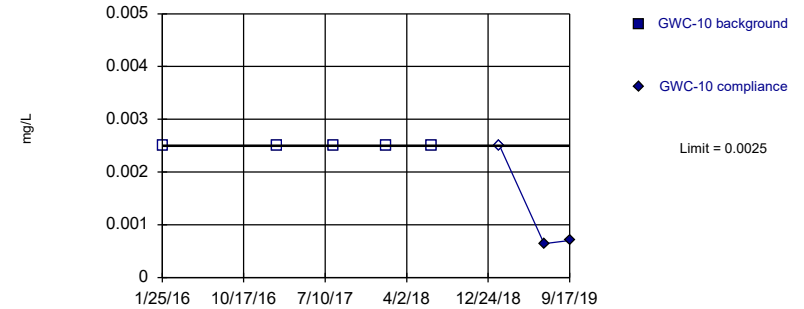


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



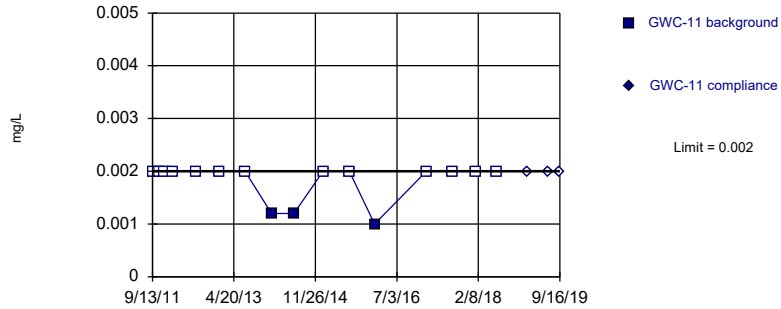
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

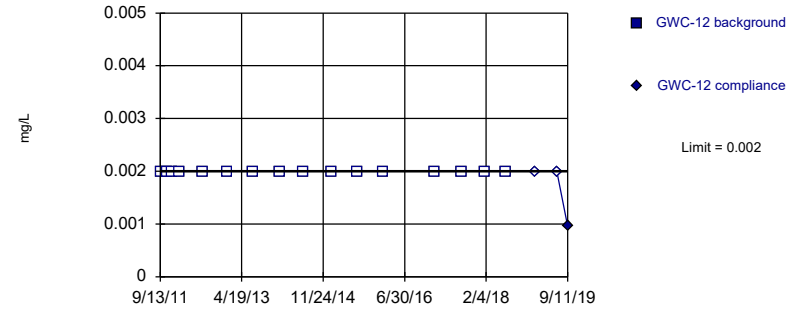


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:56 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

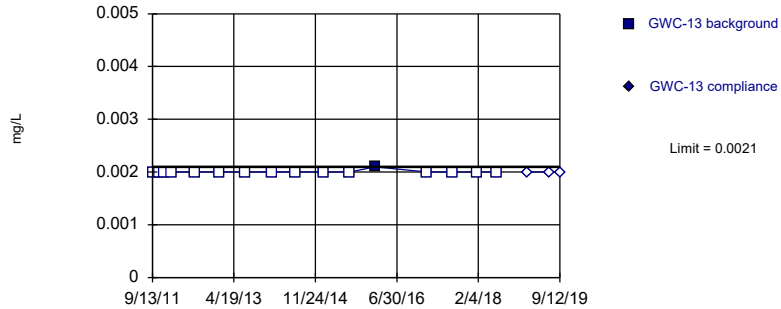


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

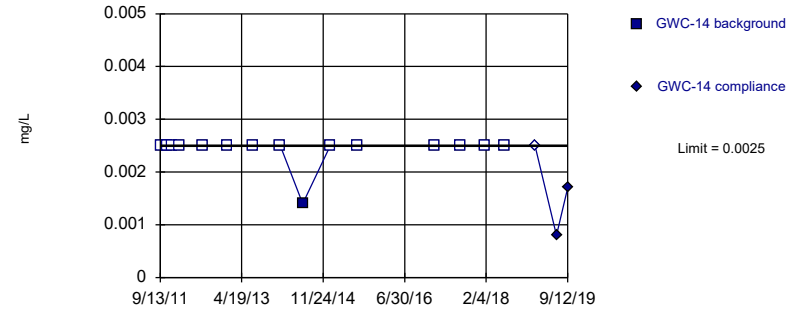


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



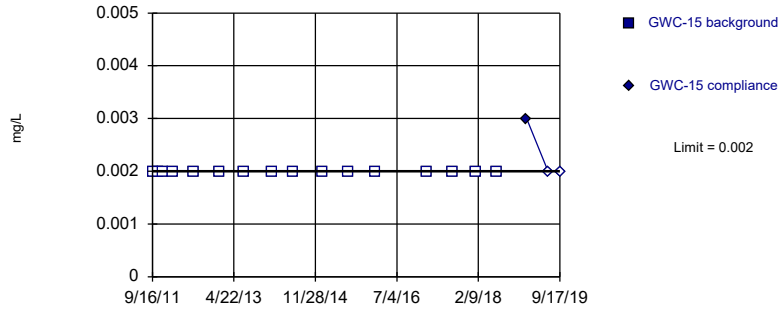
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



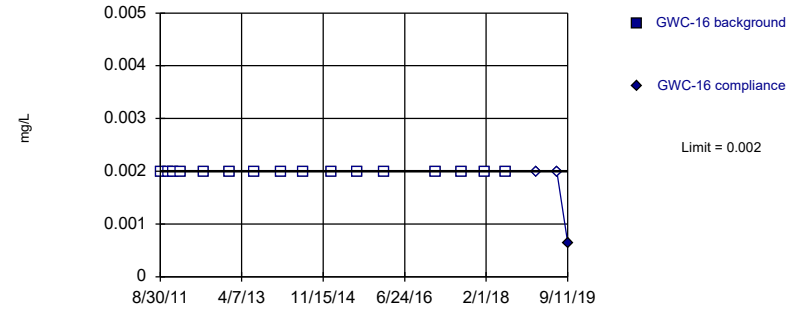
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



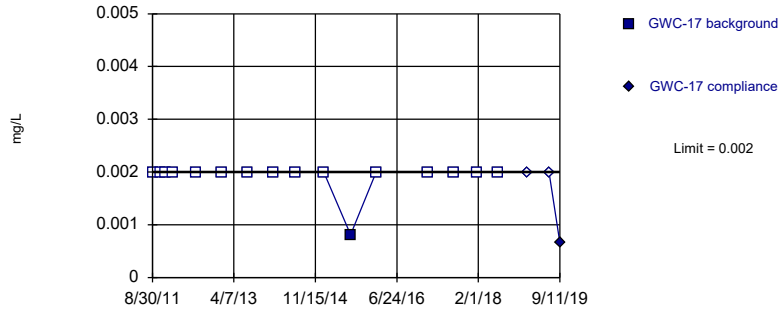
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



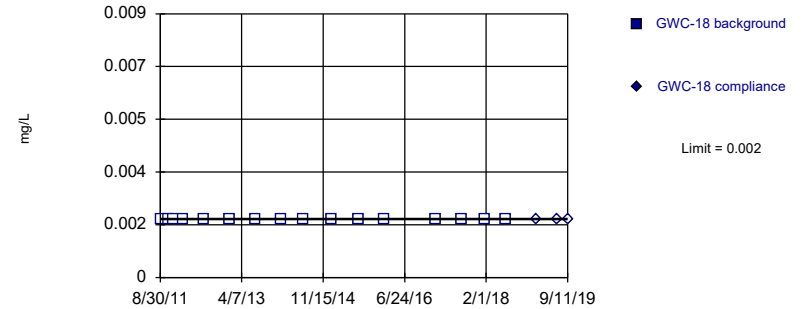
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

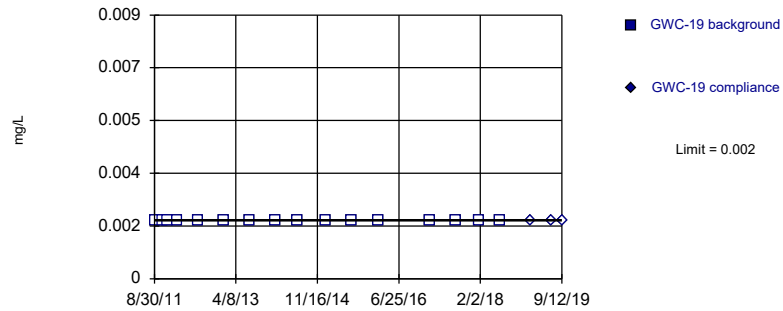


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

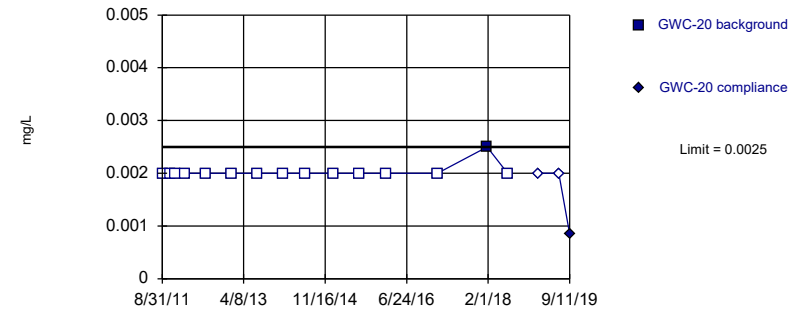


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

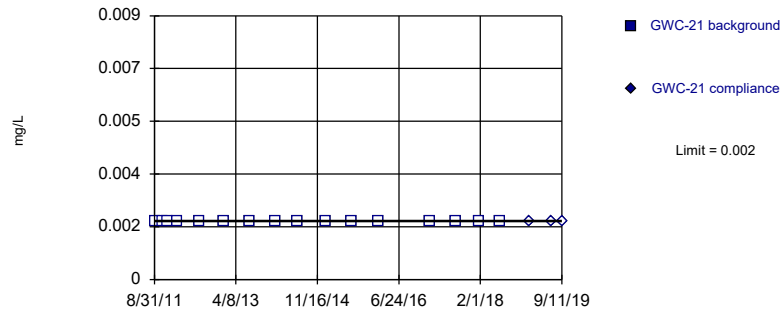


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

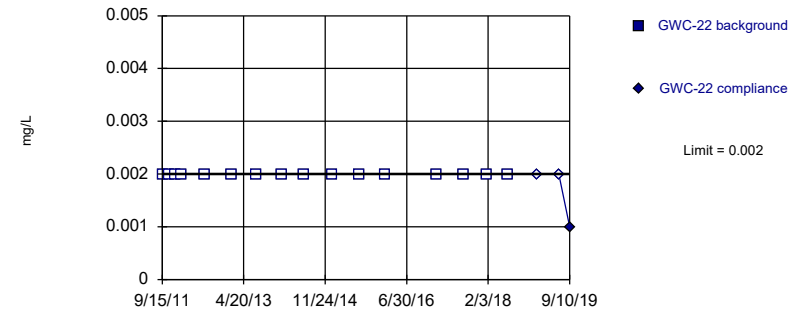


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

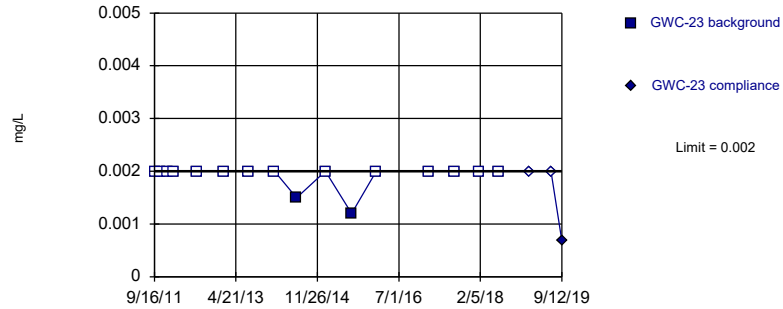


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

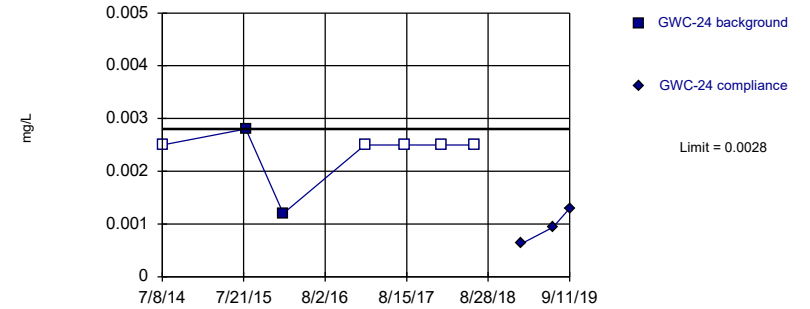


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

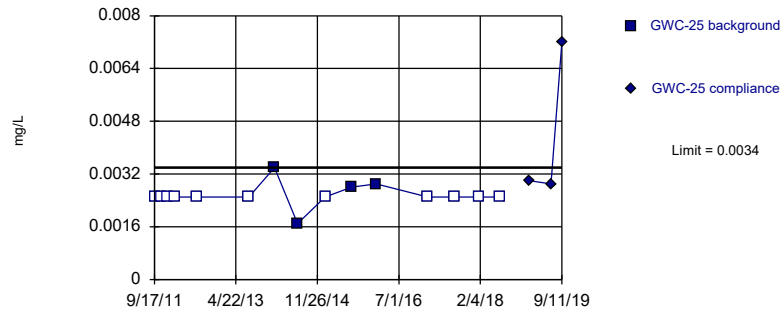


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

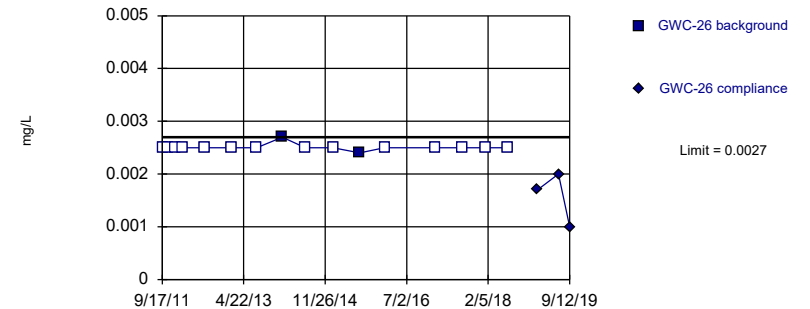


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

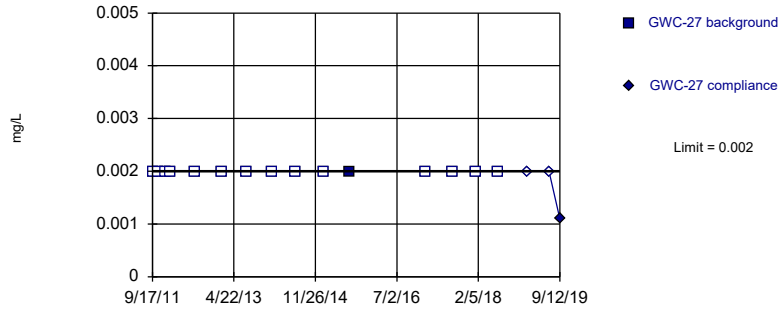


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

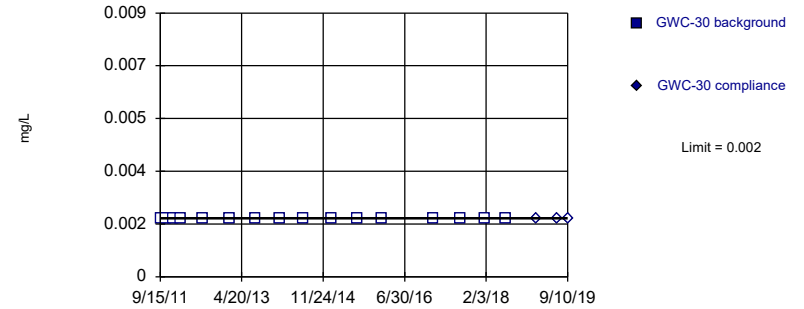


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

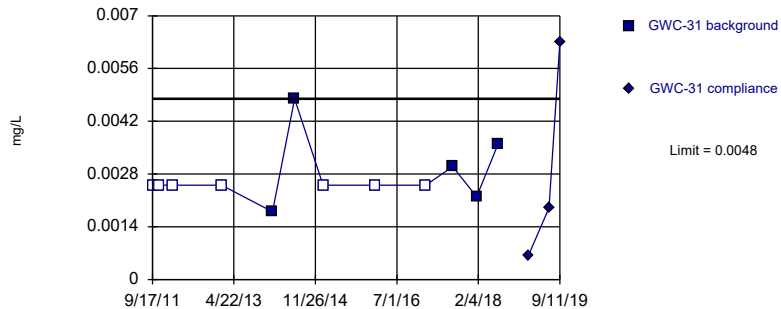


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

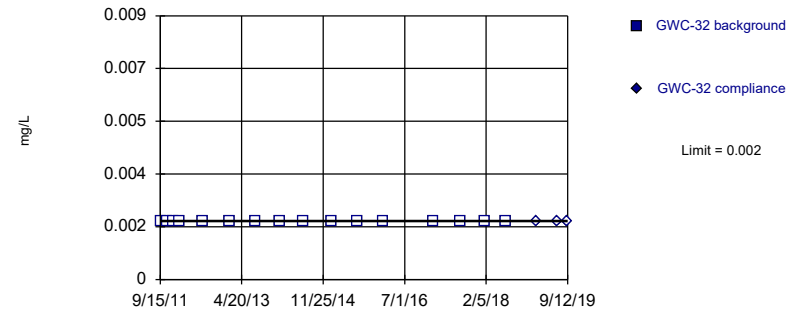


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

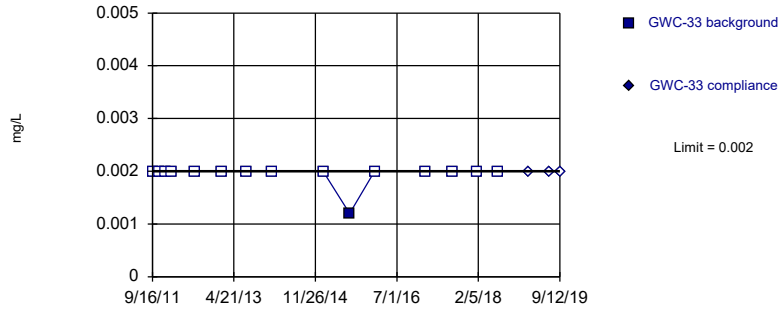


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

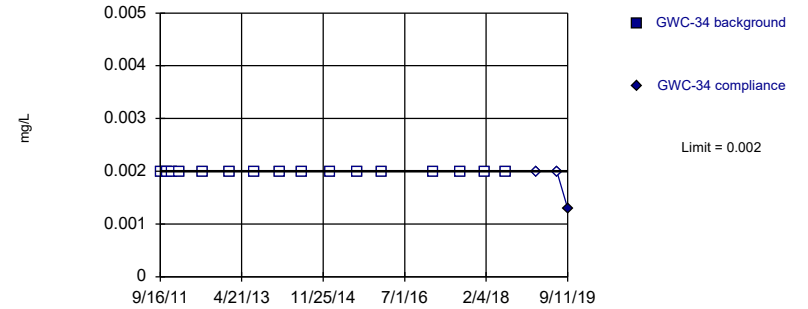


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

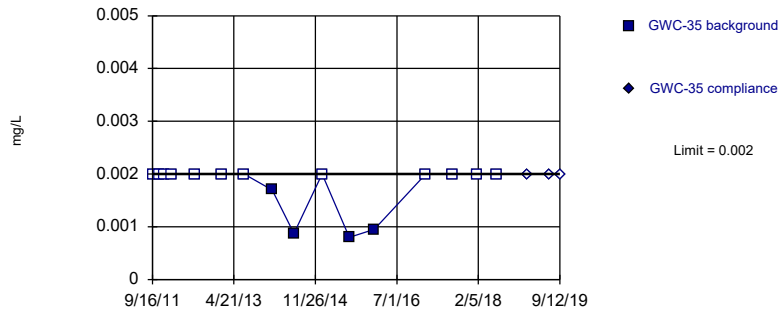


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

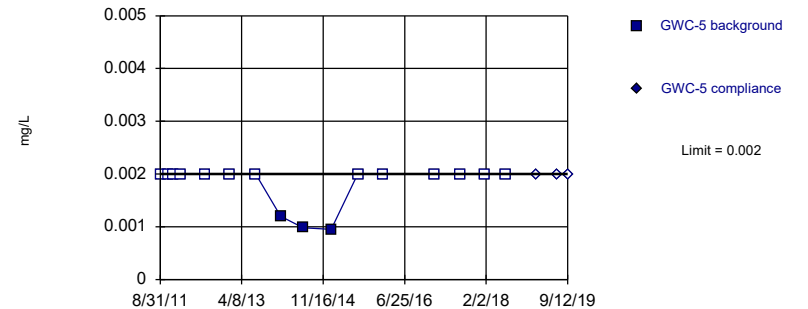


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

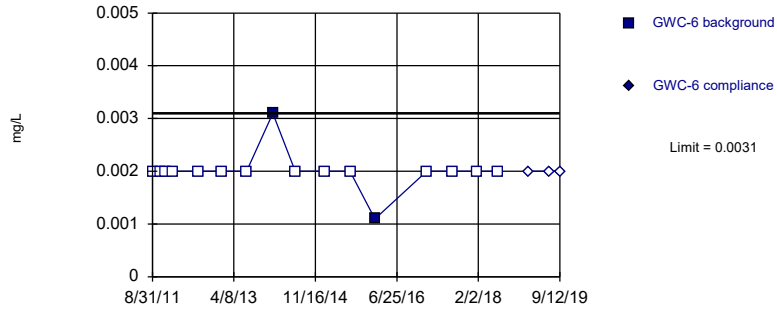


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

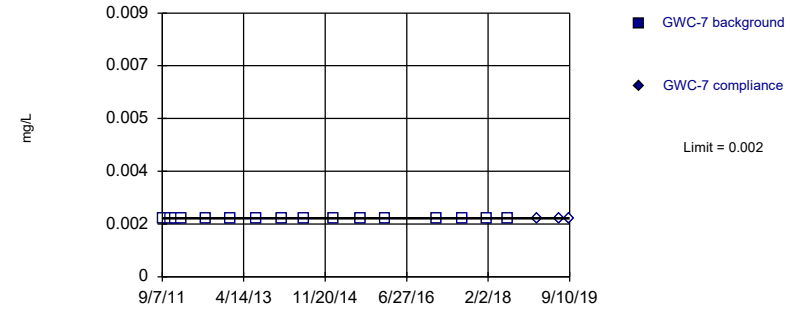


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

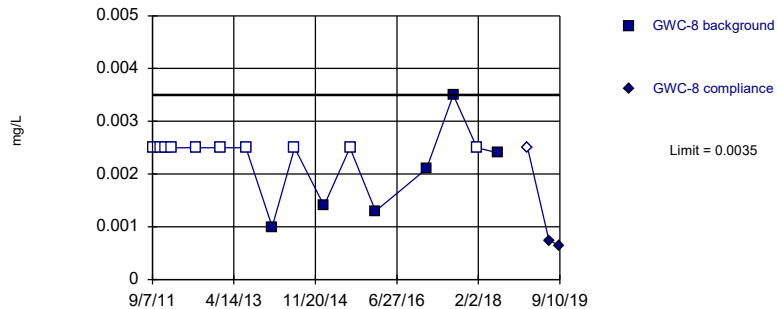


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

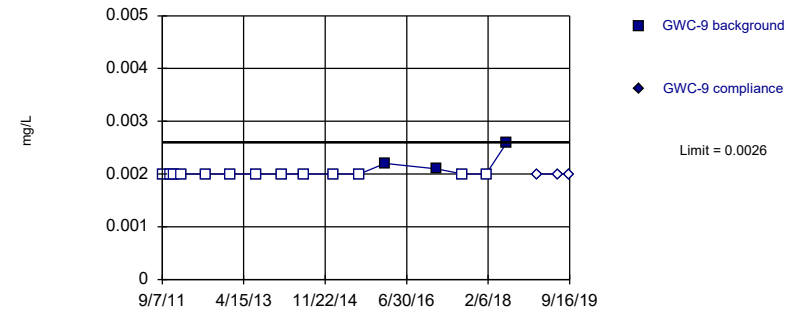


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

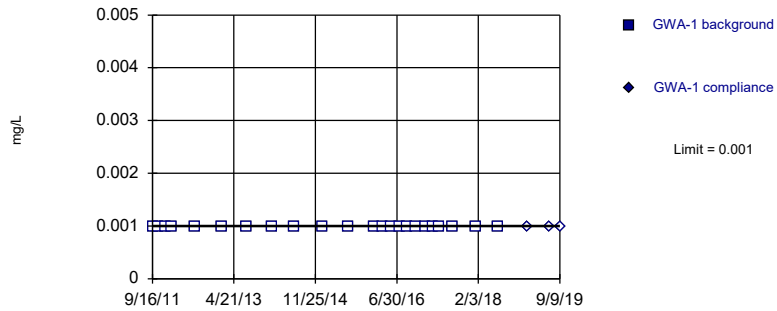


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

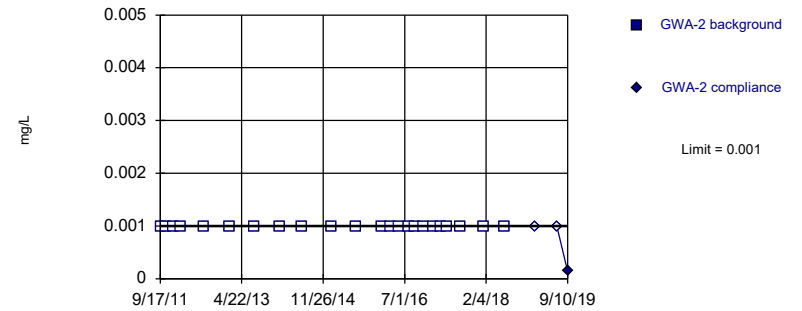


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

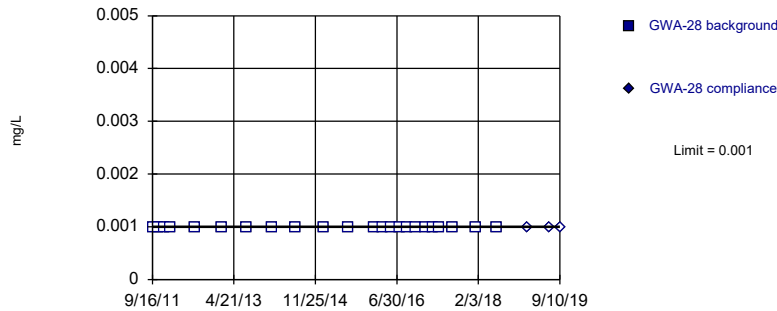


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

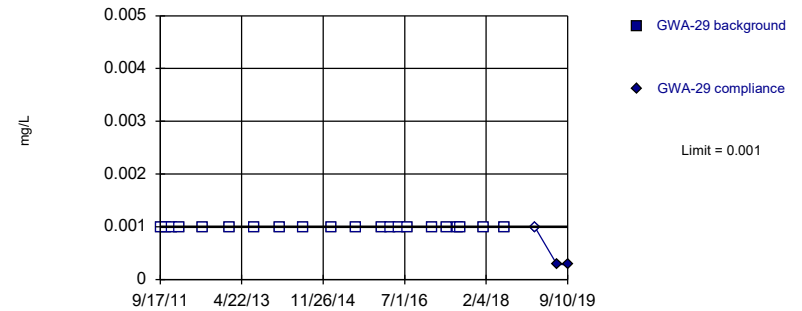


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - 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%. 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).

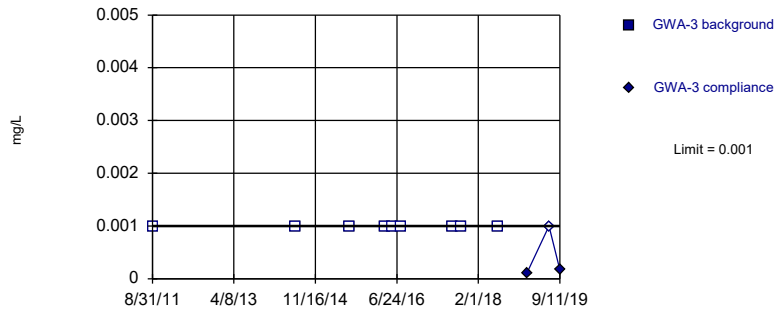
Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



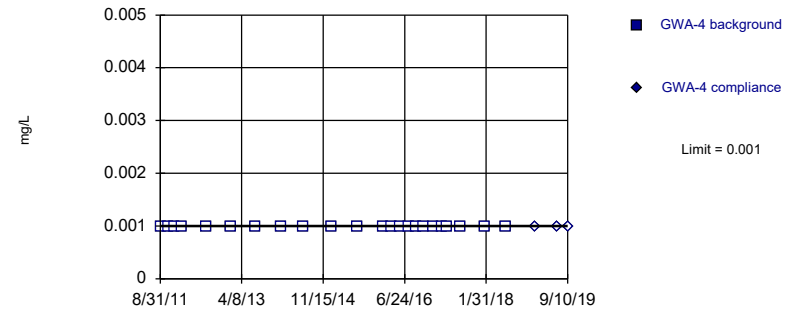
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



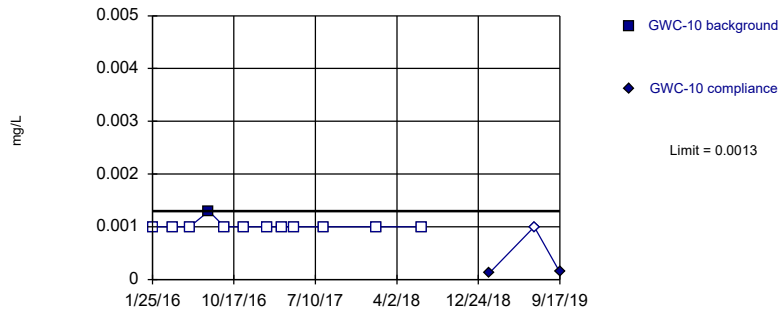
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



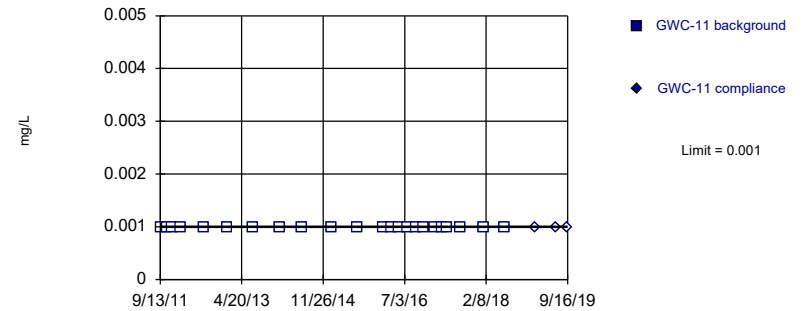
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

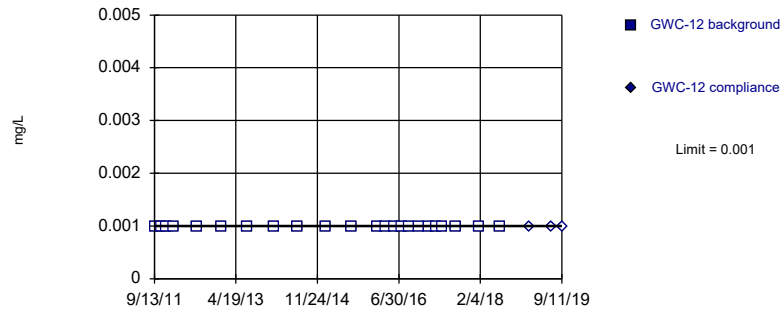


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

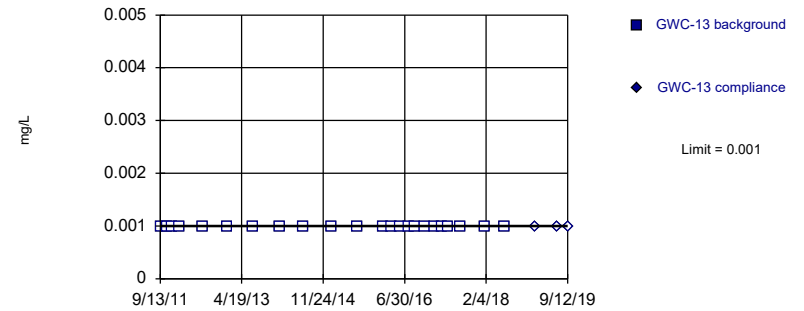


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:57 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

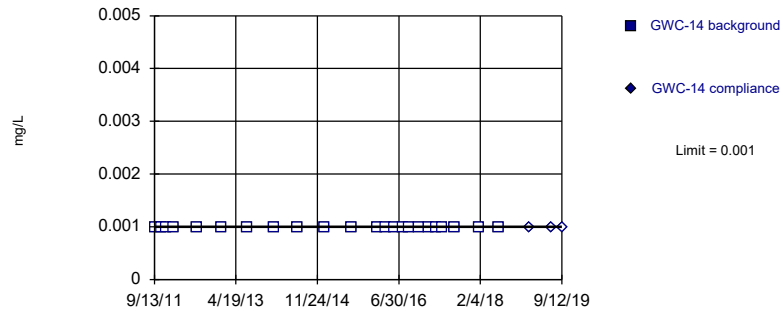


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

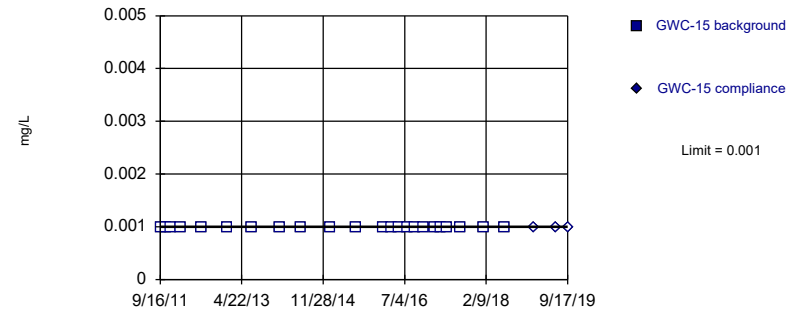


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



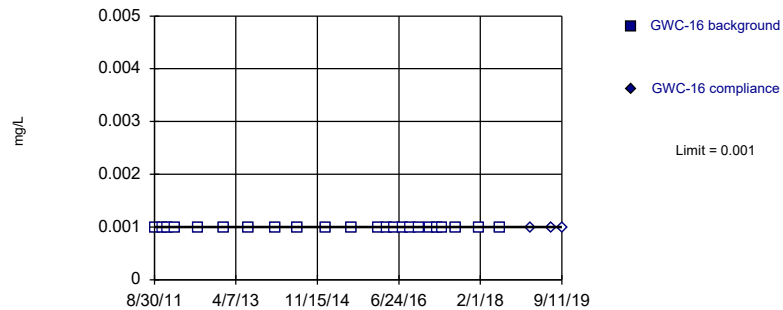
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



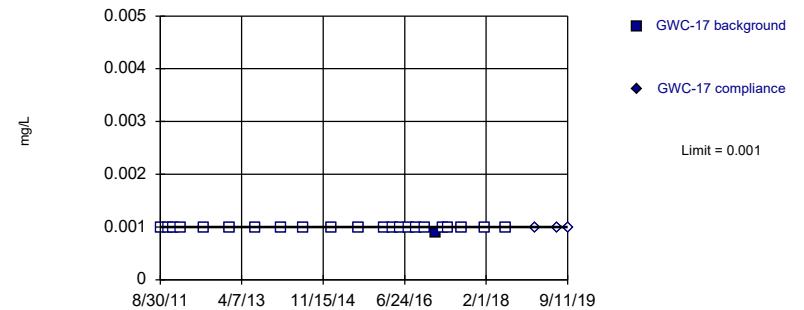
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



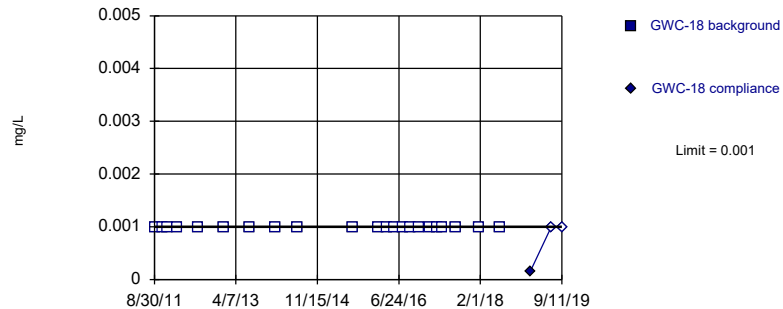
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



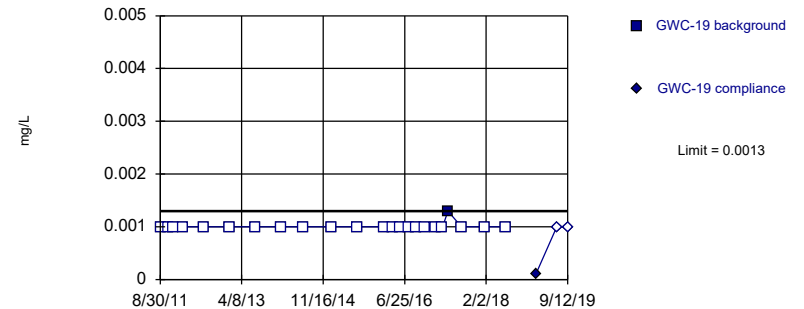
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



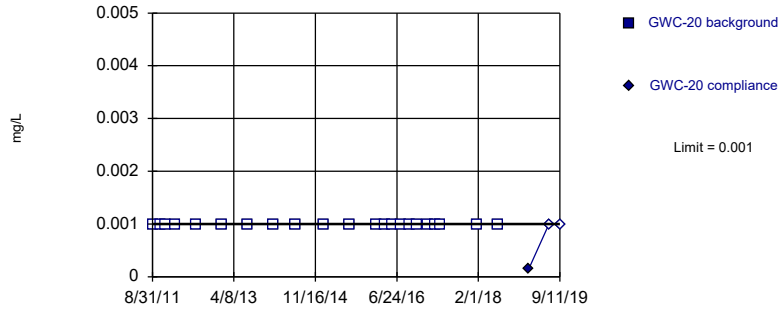
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



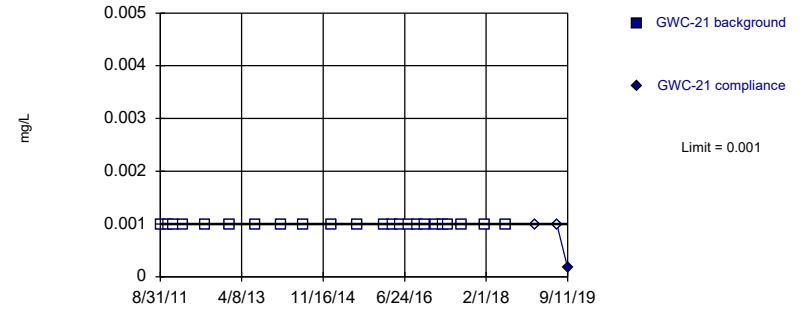
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



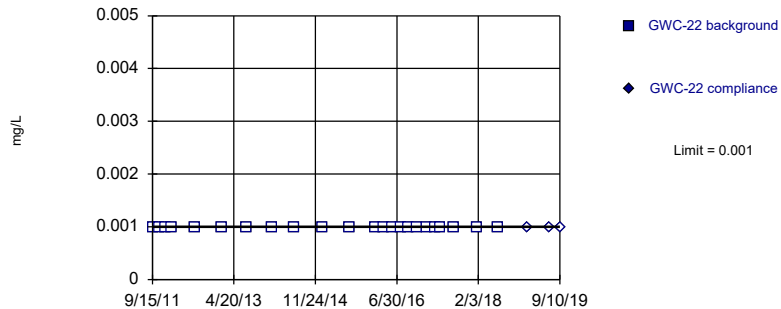
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



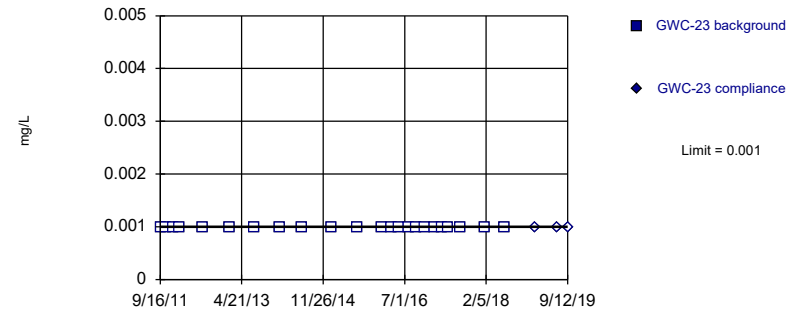
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

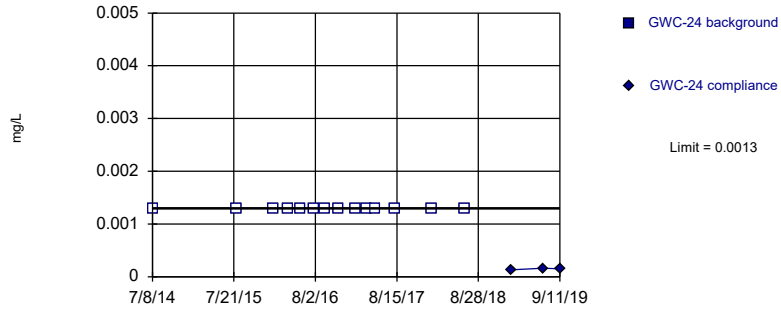


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

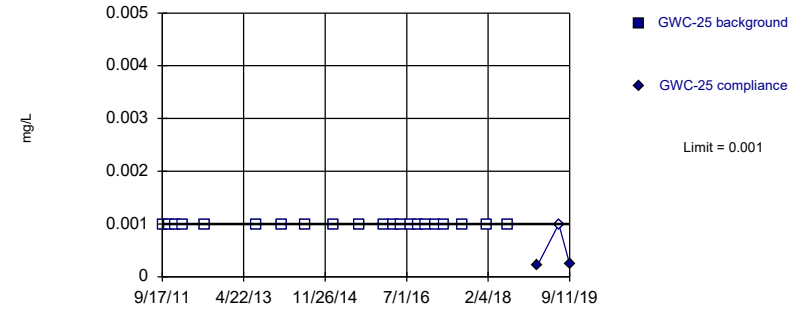


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 14) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

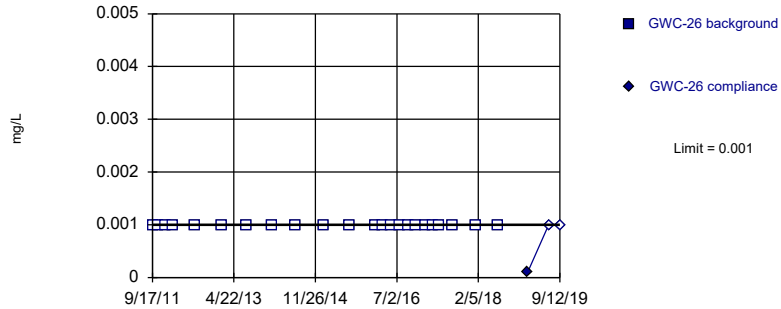


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

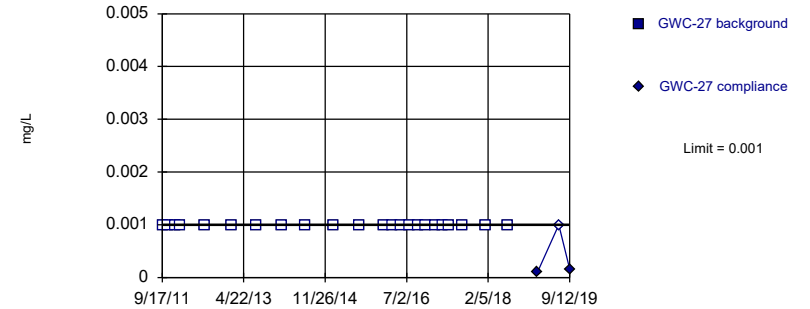


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



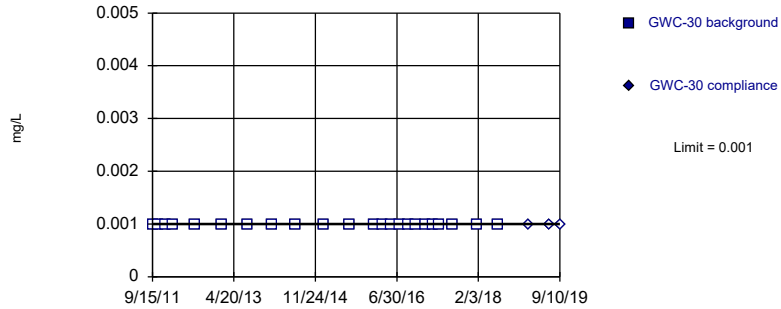
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



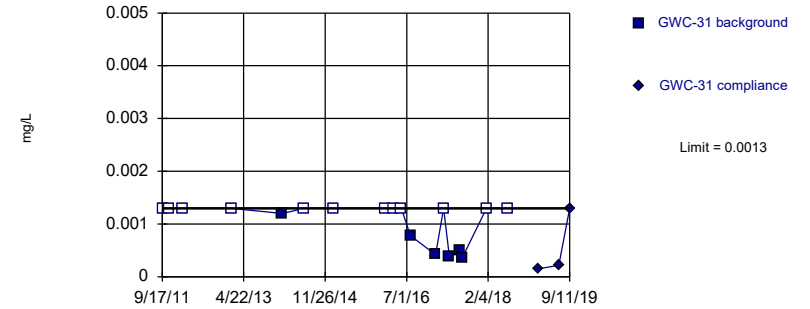
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



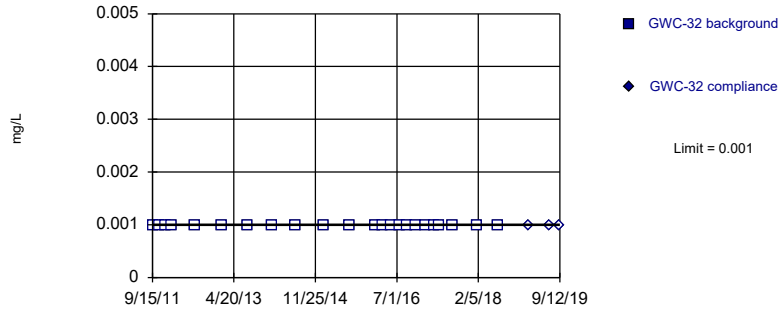
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



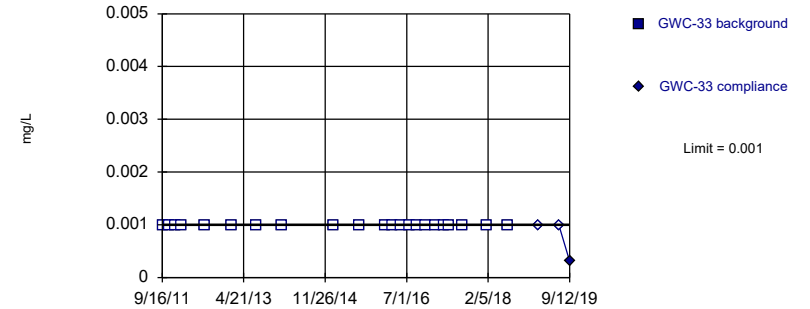
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



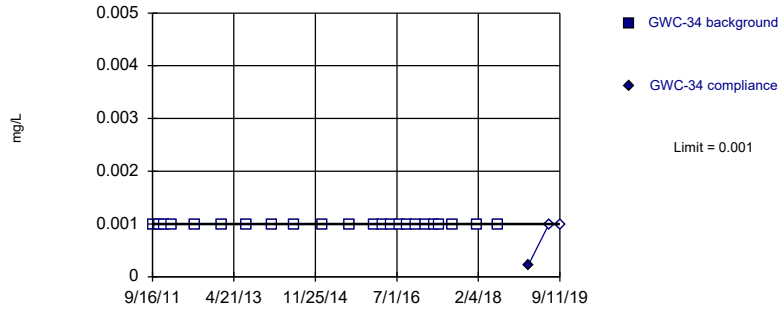
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



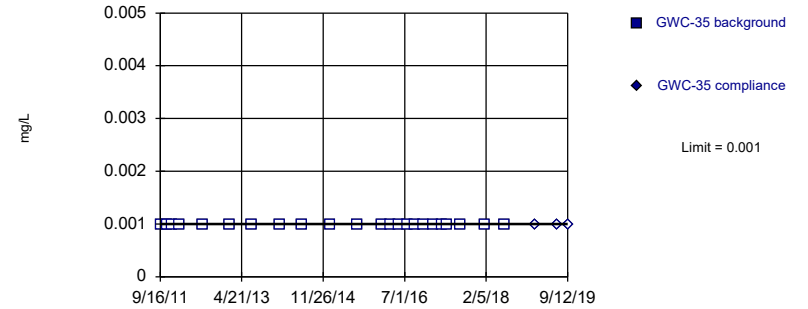
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



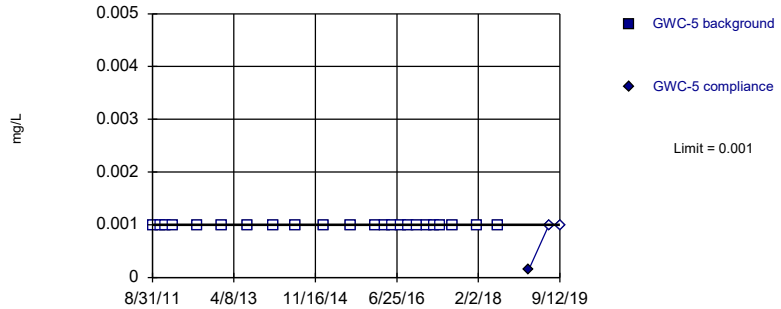
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



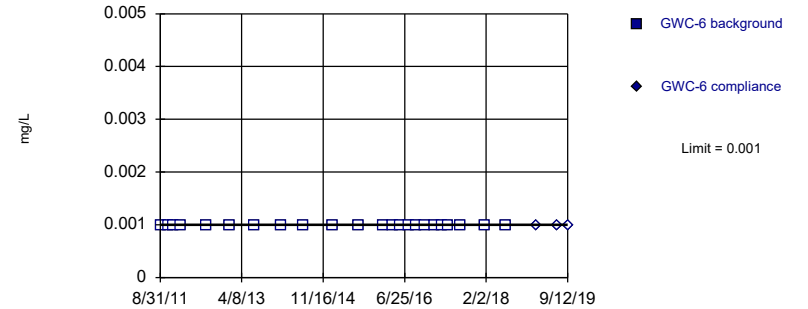
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Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

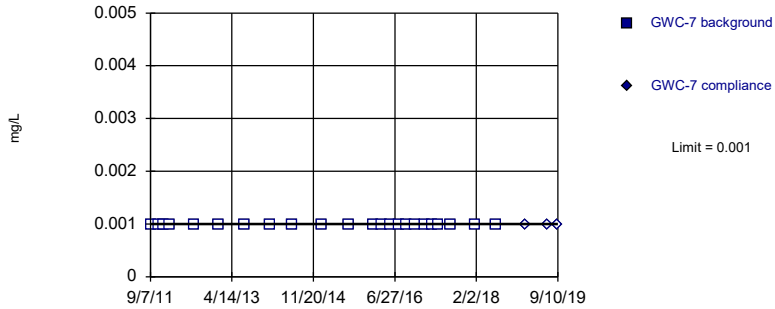


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

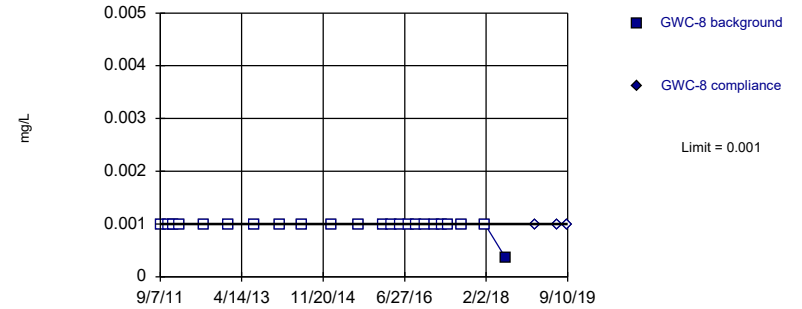


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:58 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

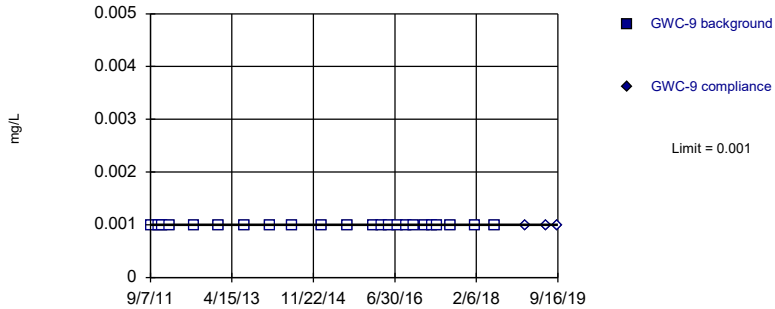


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

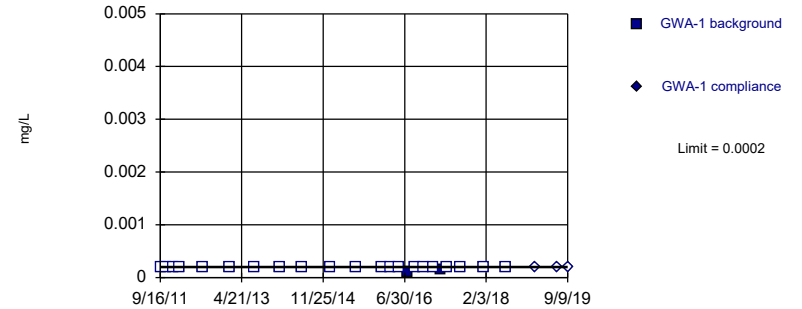


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



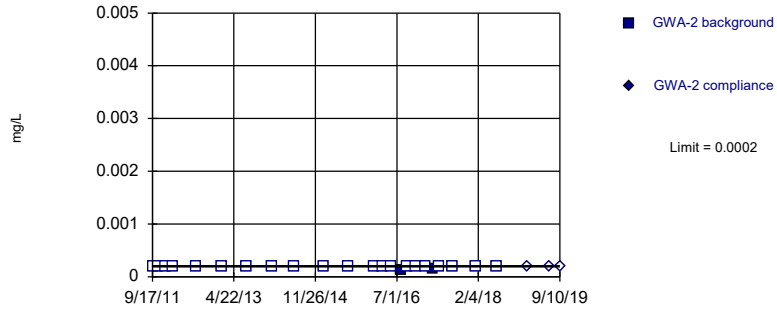
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

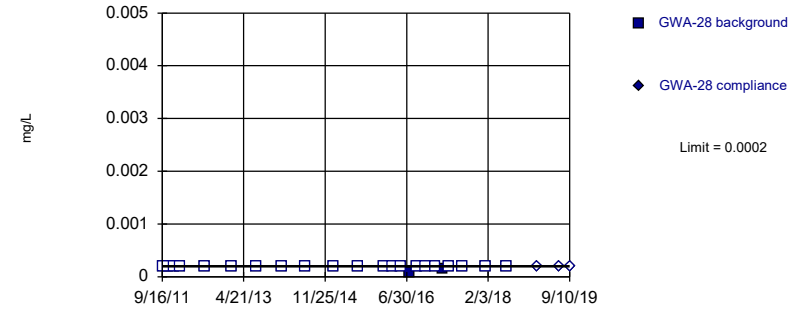


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

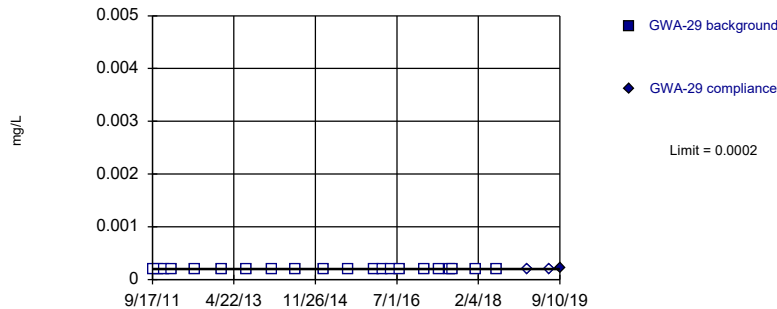


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

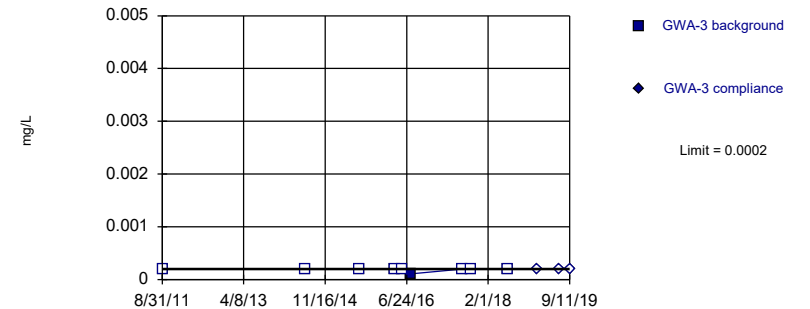


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

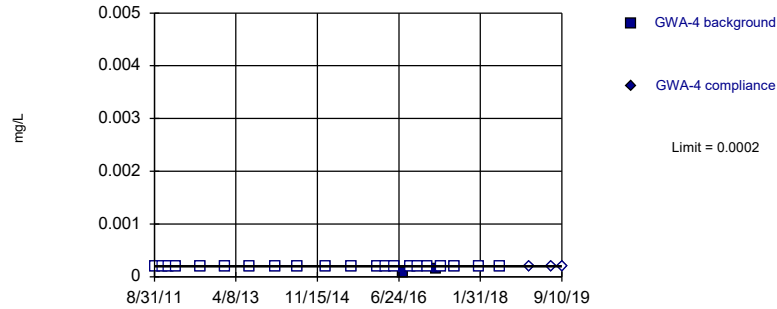


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

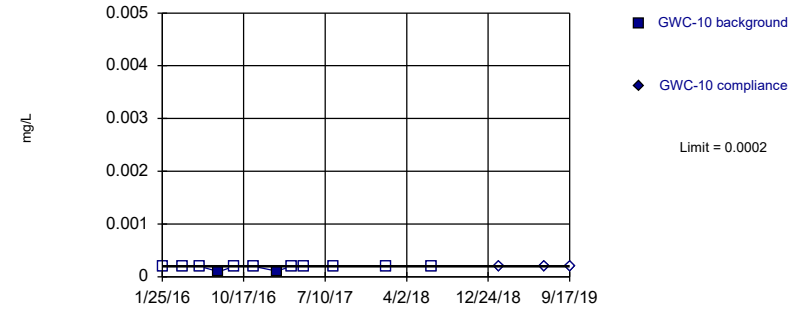


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

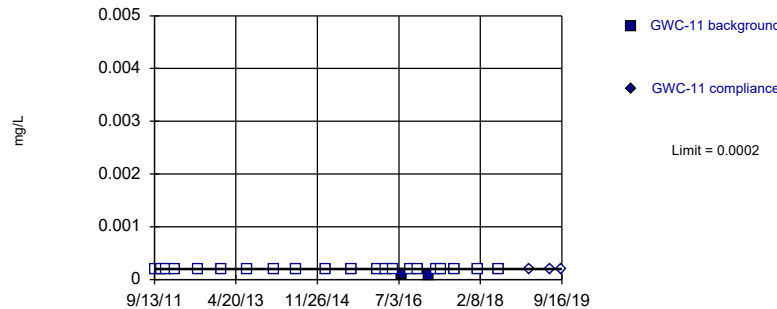


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

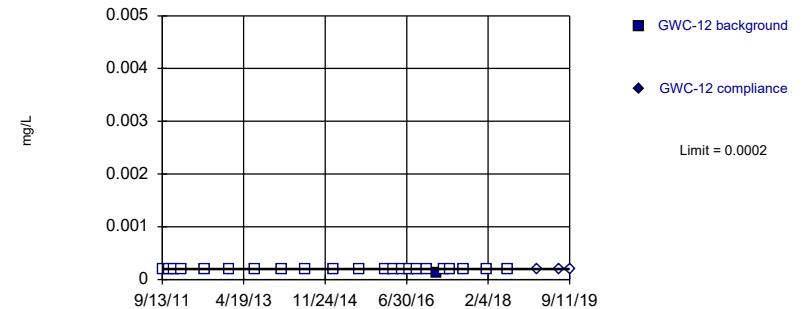


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

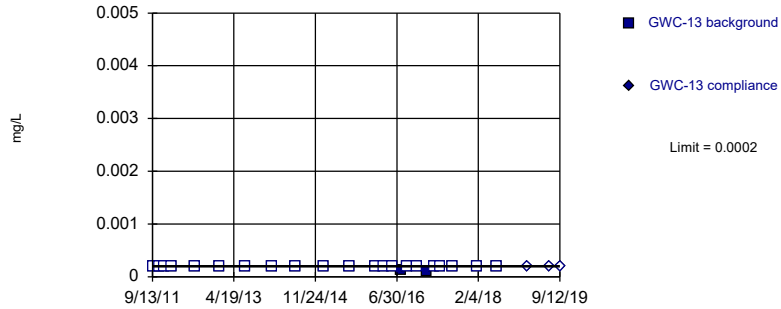


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

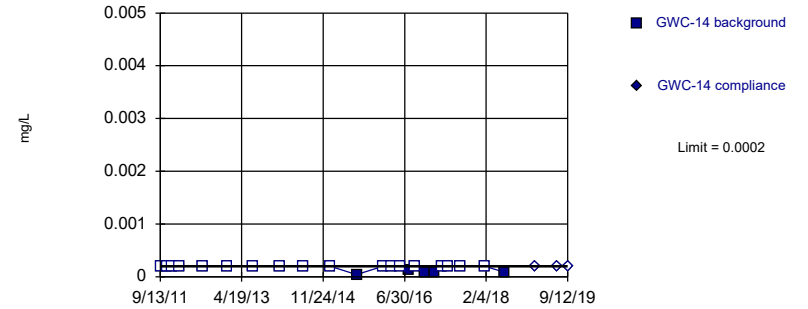


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

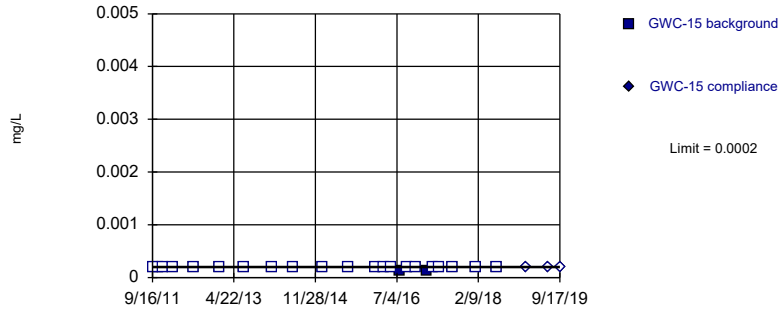


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

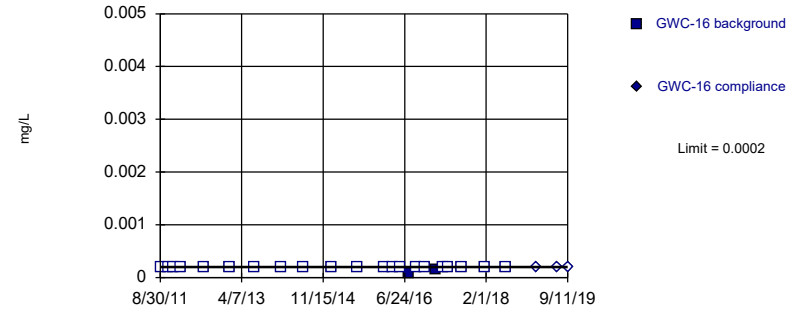


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

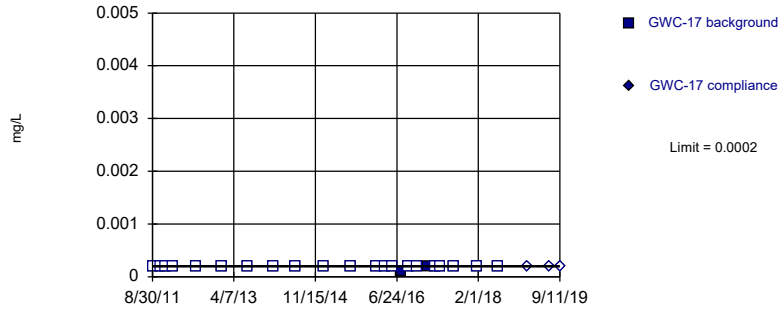


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

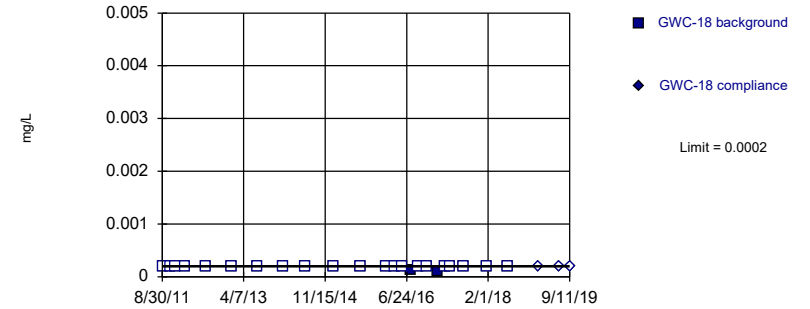


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

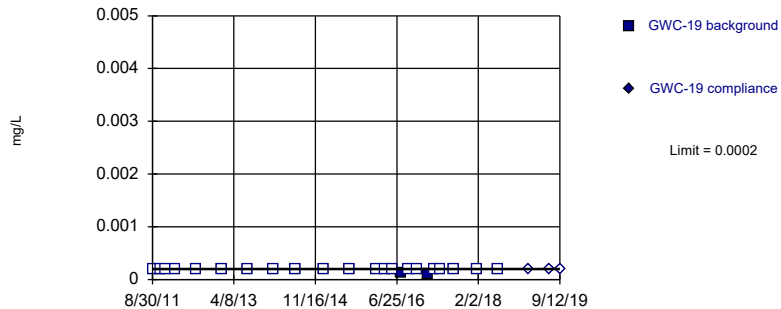


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

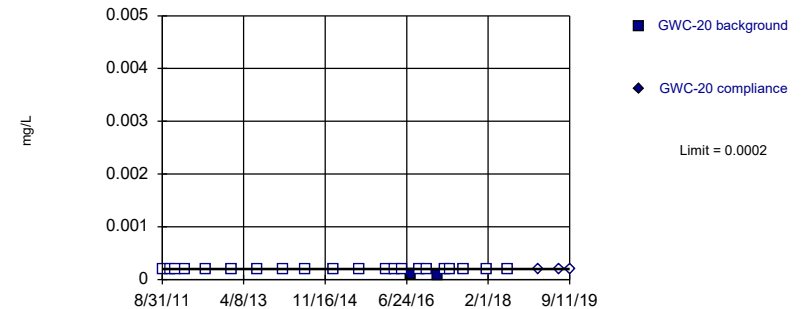


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

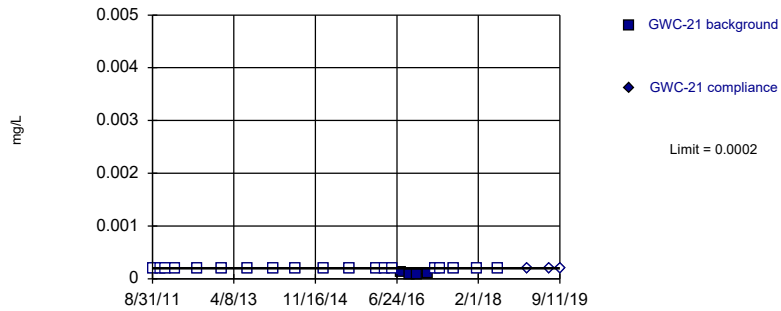


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

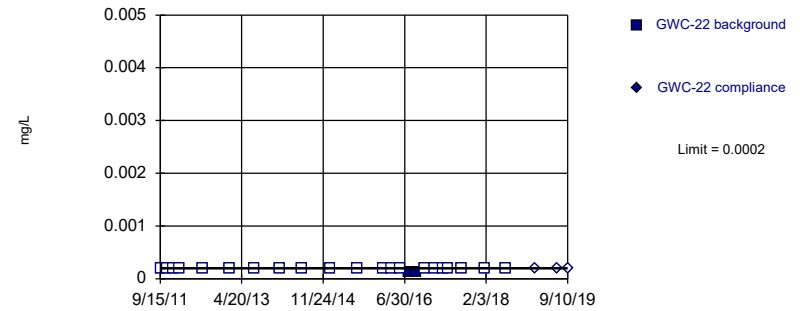


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

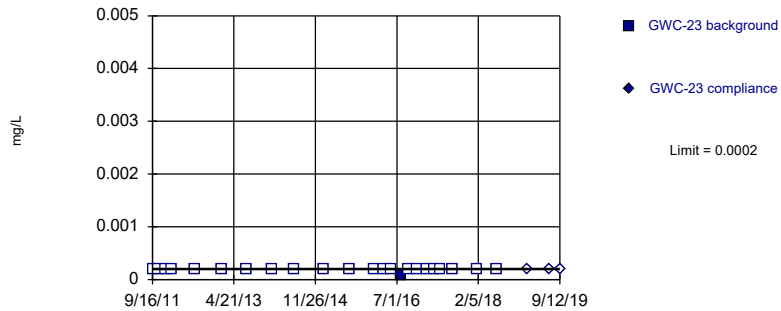


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

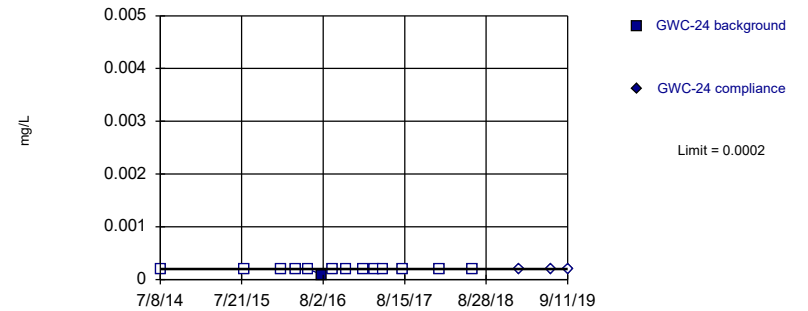


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

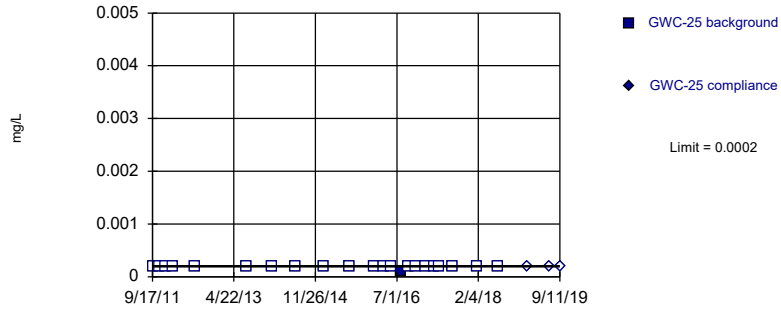


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

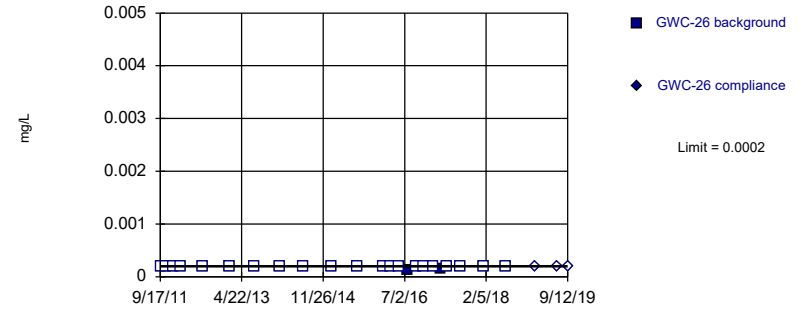


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

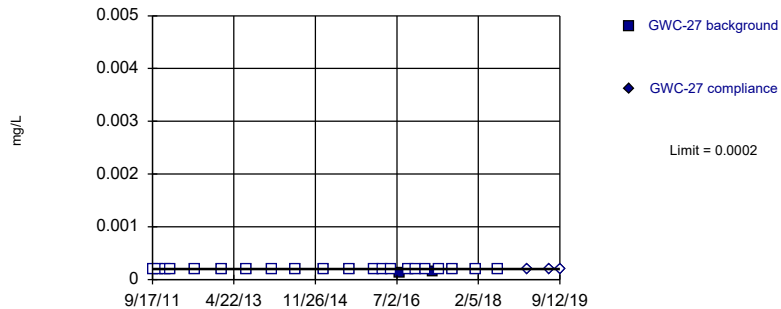


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

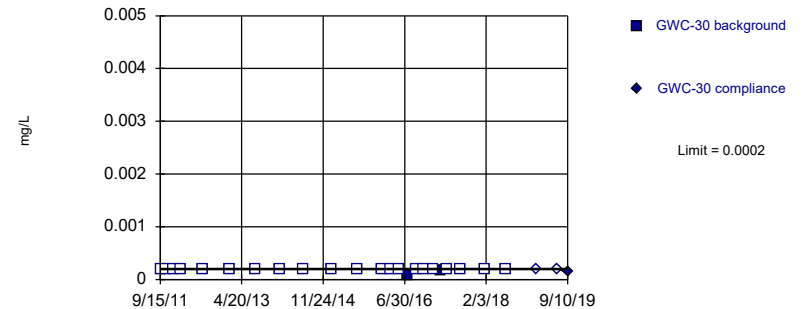


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 9:59 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

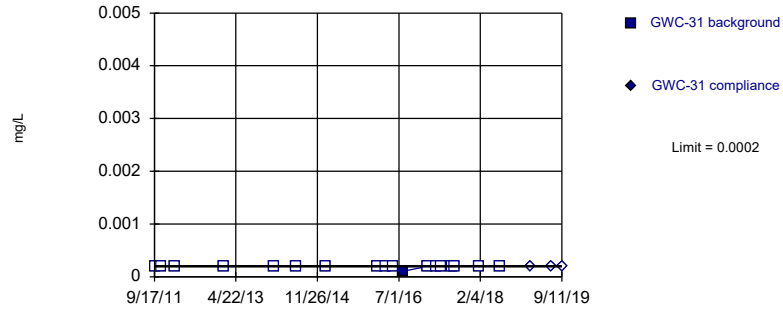


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

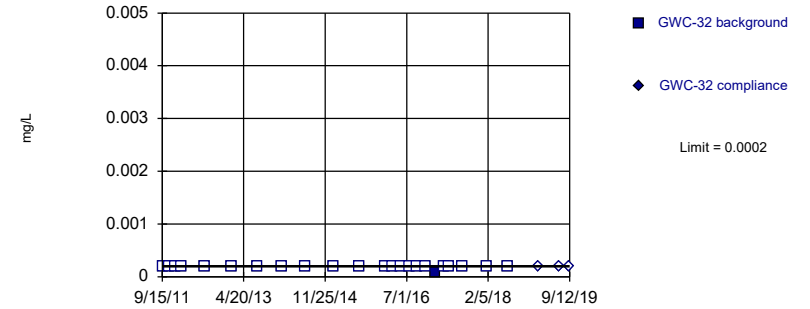


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

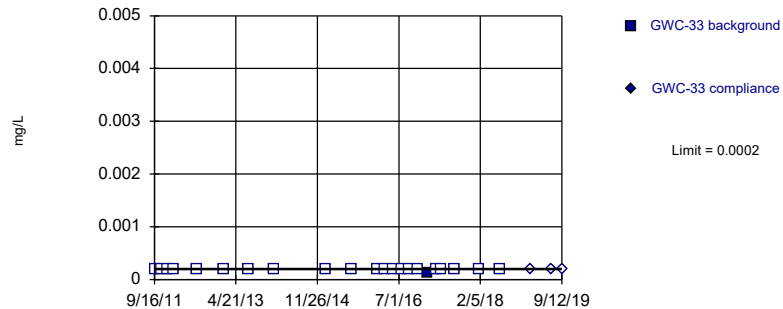


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

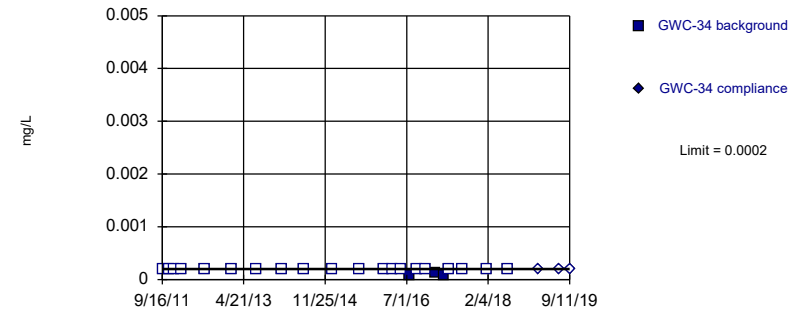


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

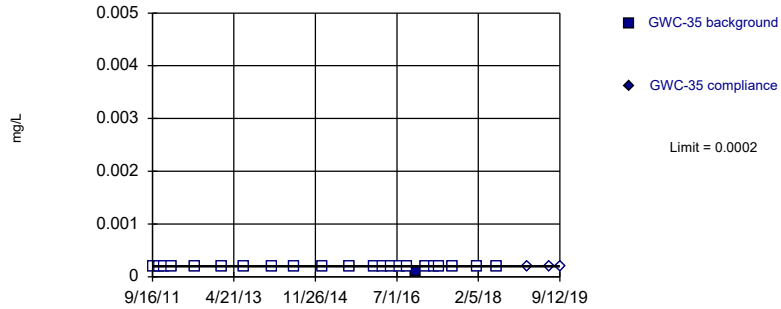


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

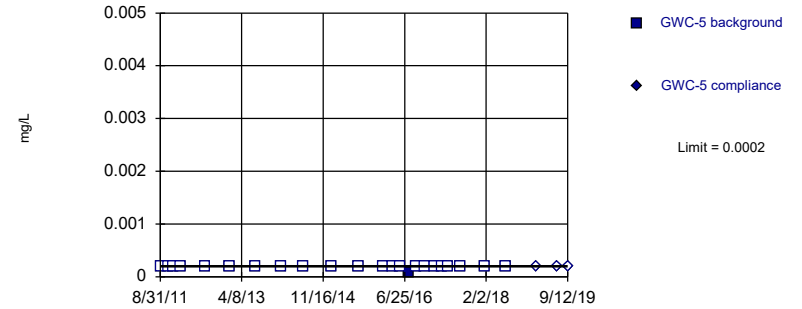


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

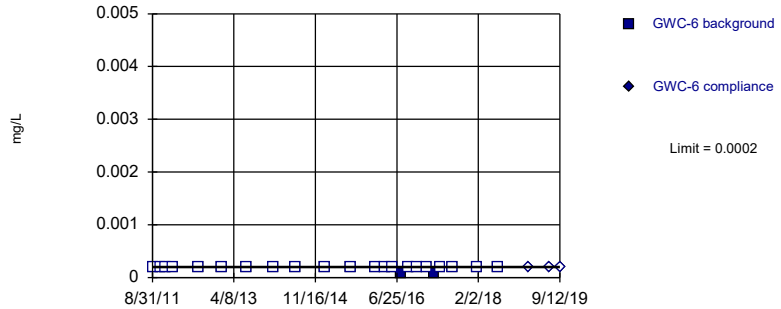


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

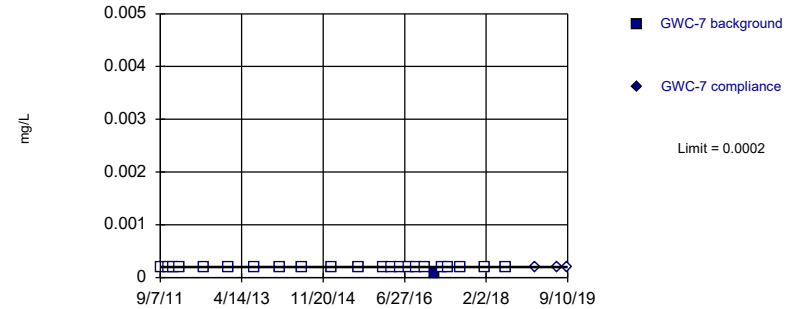


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



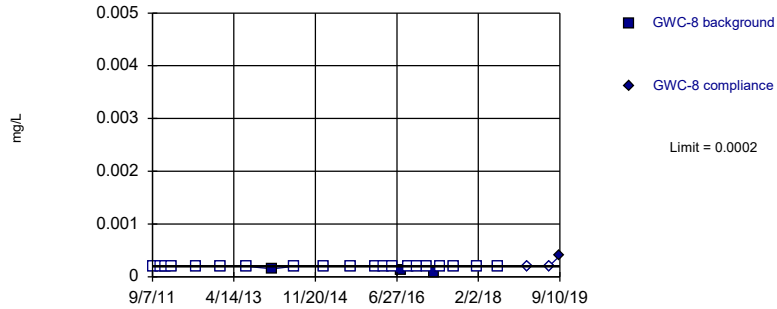
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

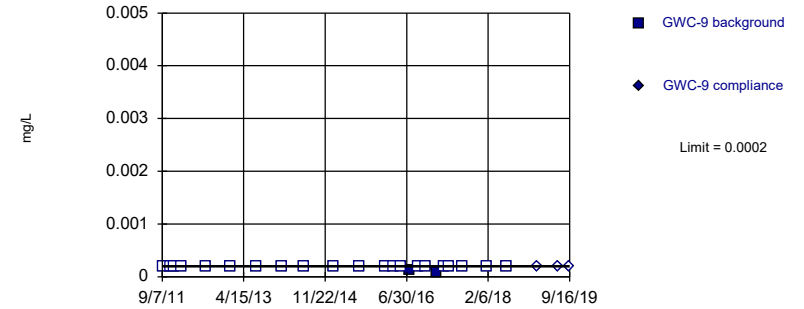


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

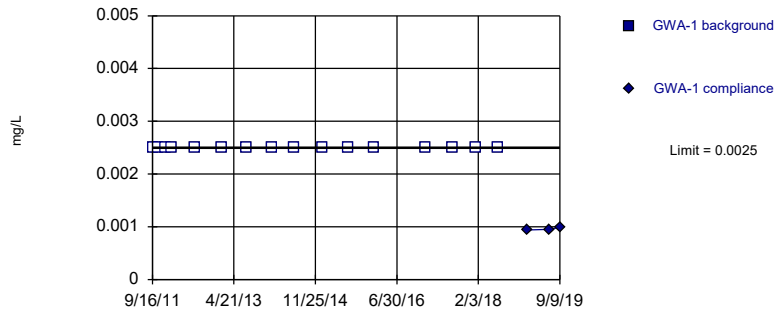


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

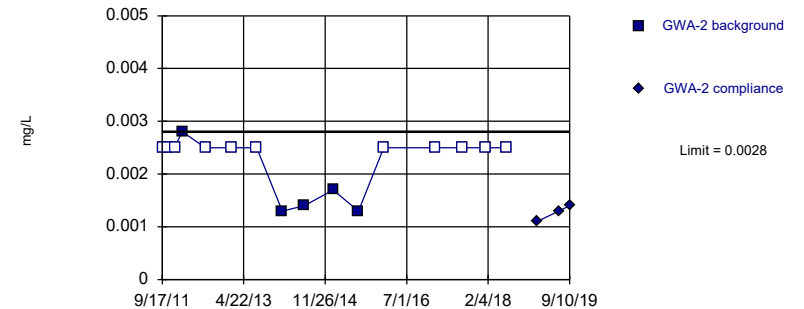


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

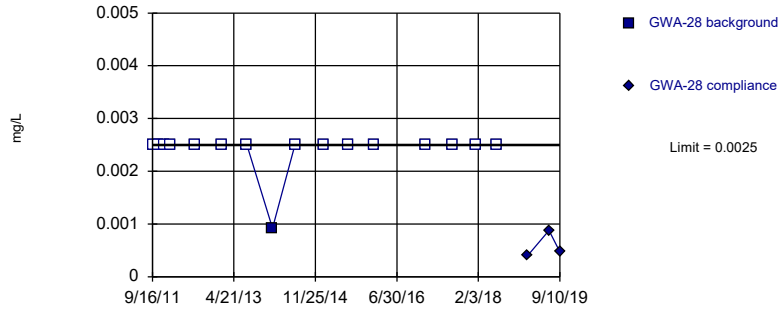


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

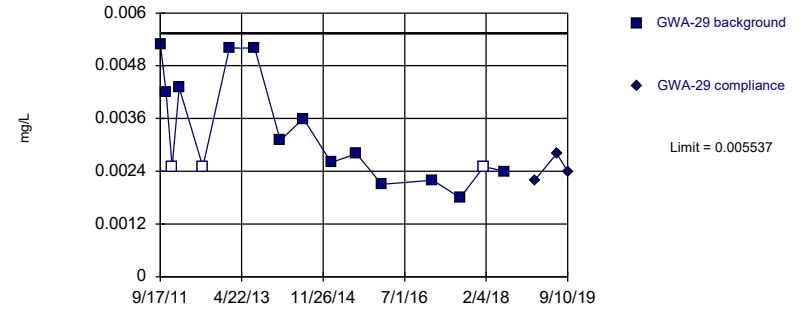


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

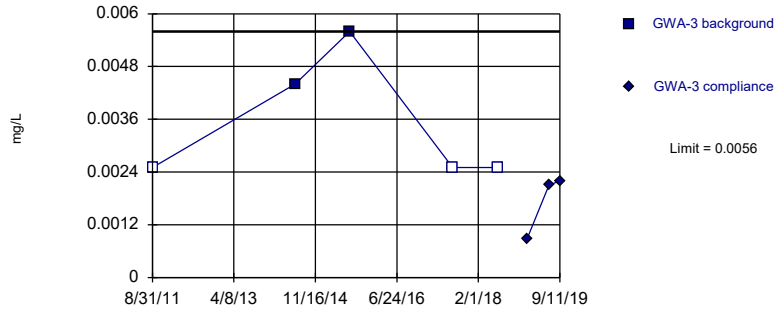


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003044, Std. Dev.=0.001124, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8635, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

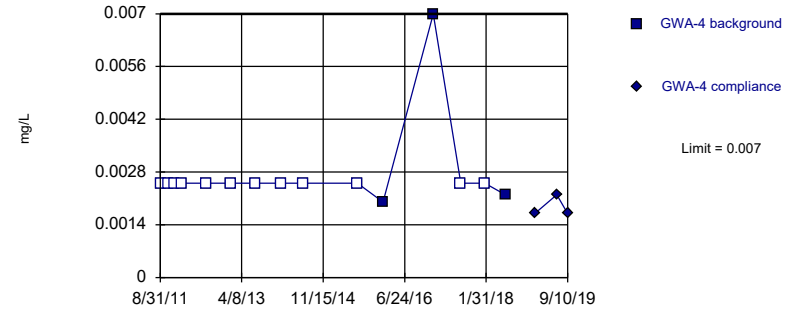


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 60% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

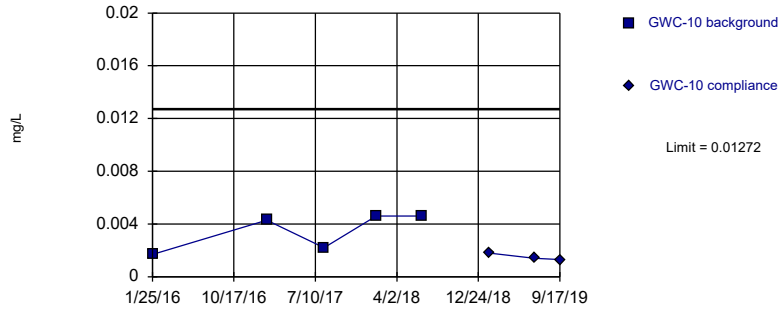


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

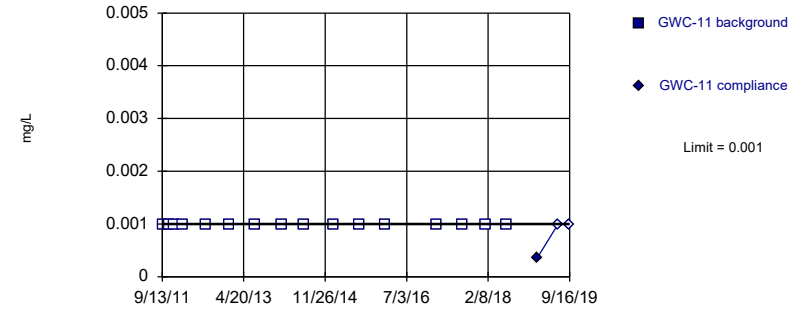


Background Data Summary: Mean=0.00348, Std. Dev.=0.001413, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7865, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



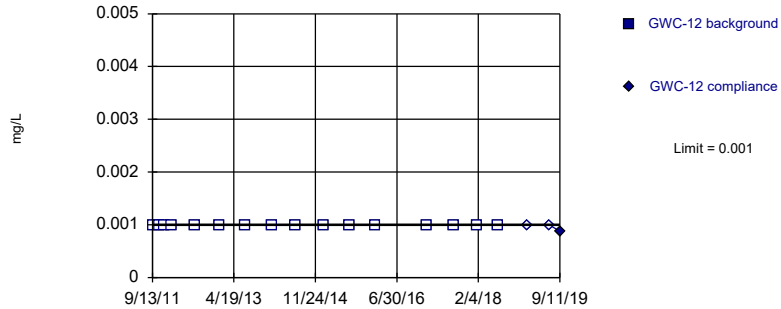
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



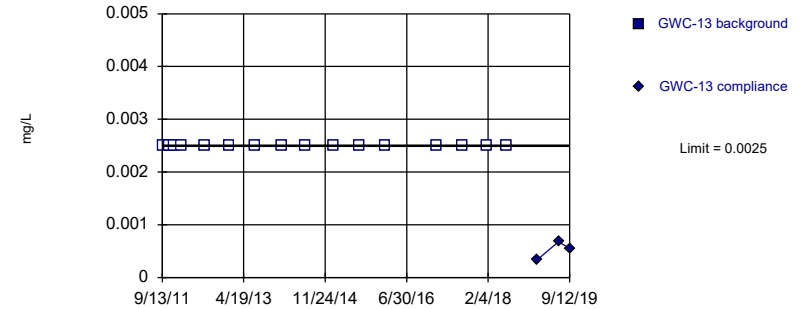
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

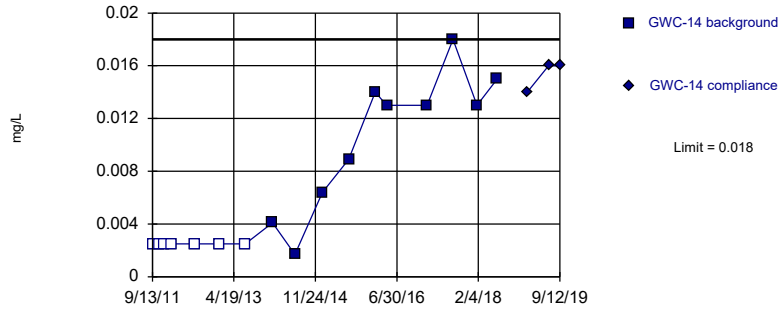


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

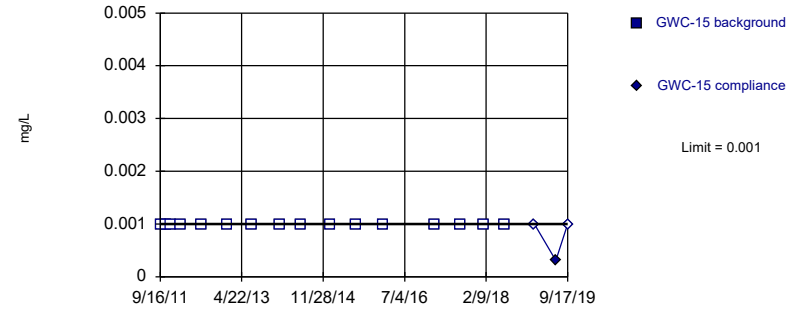


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 41.18% NDs. Well-constituent pair annual alpha = 0.00182. Individual comparison alpha = 0.0009102 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

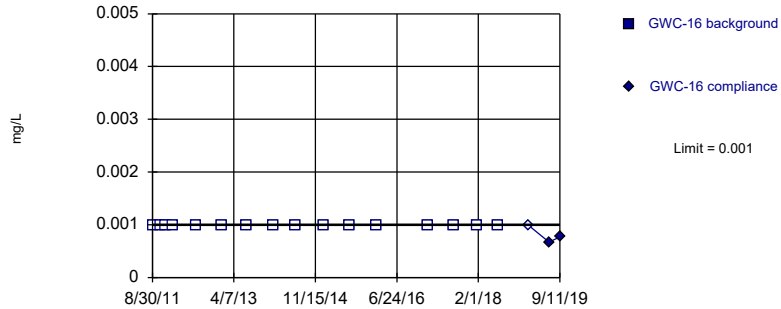


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

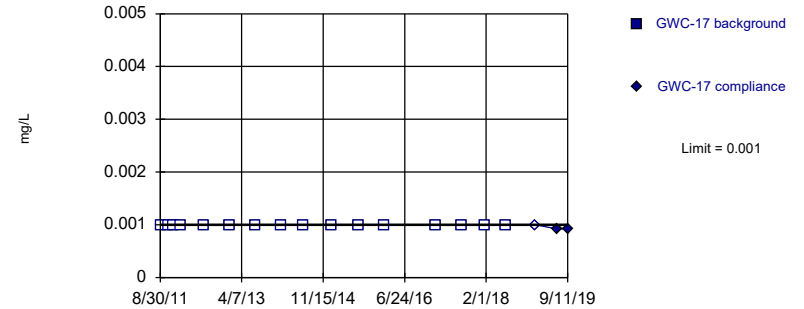


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

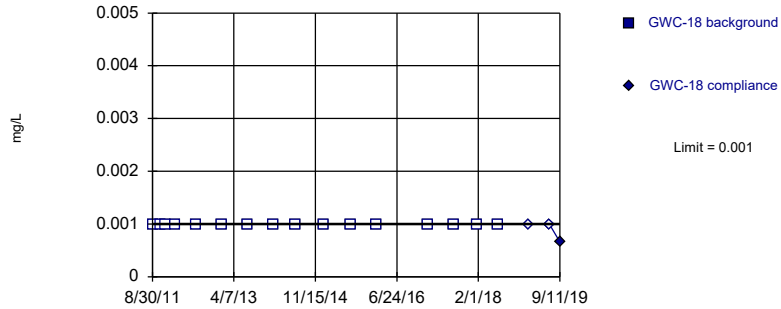


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

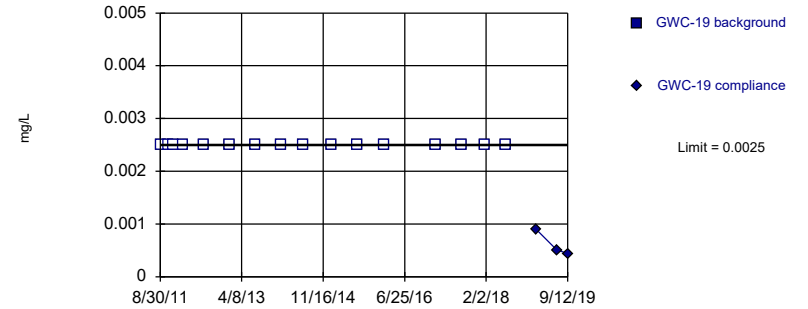


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:00 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

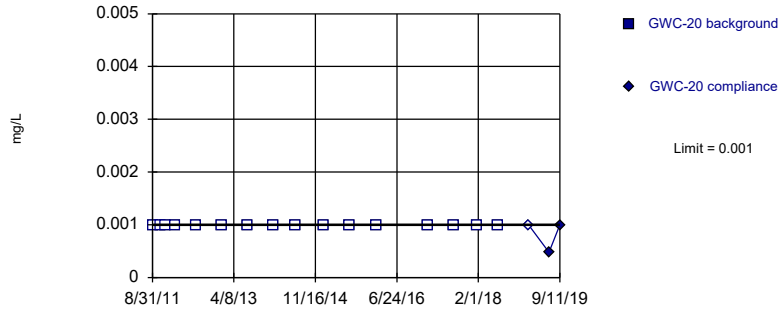


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

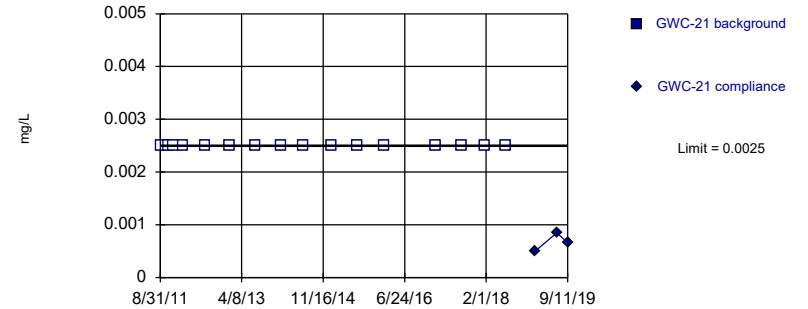


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

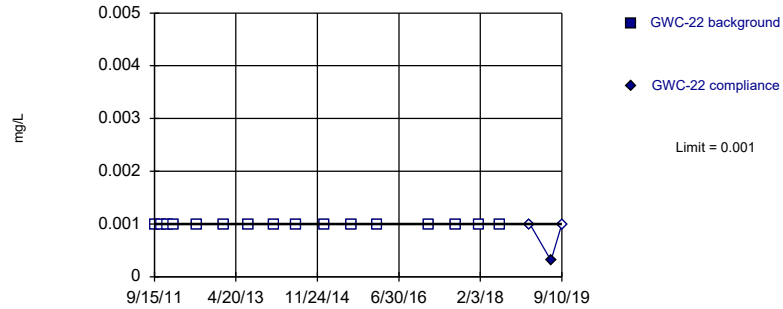


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

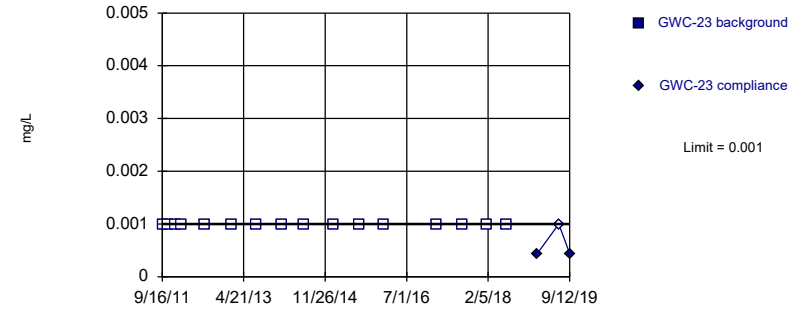


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

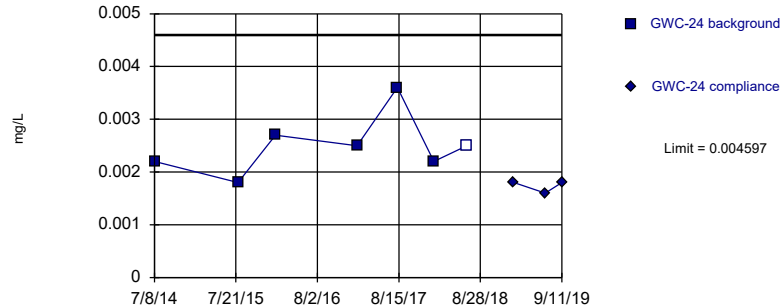


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

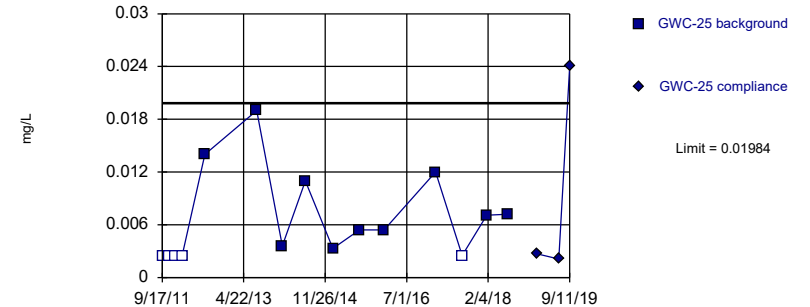


Background Data Summary: Mean=0.0025, Std. Dev.=0.0005657, n=7, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.73. Kappa = 3.706 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

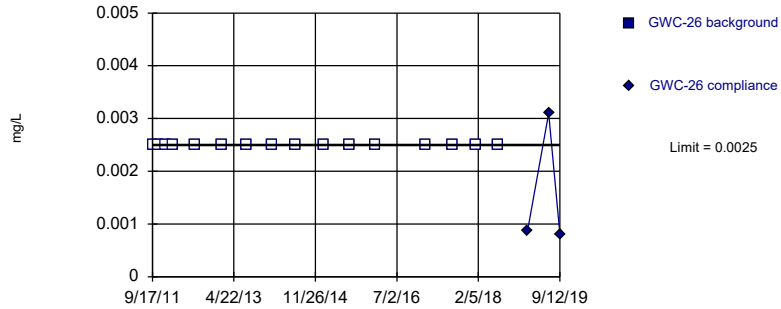


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07554, Std. Dev.=0.0286, n=15, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8657, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

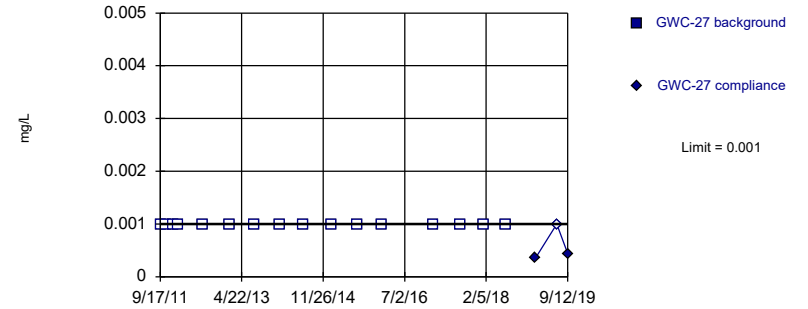


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

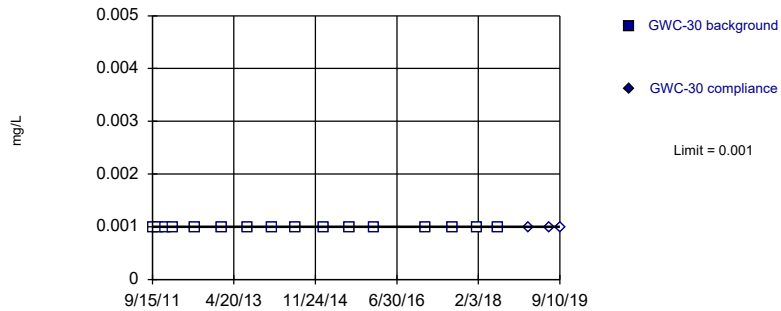


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

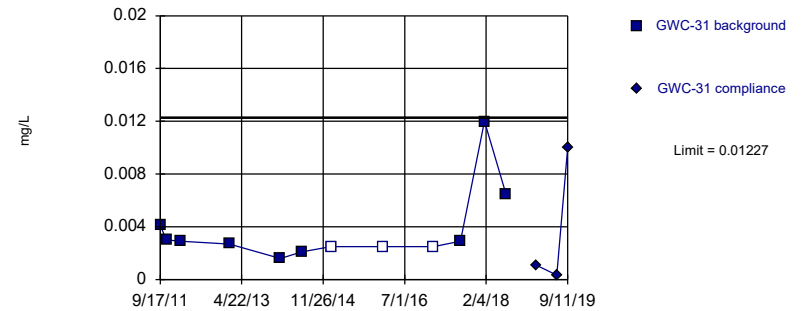


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

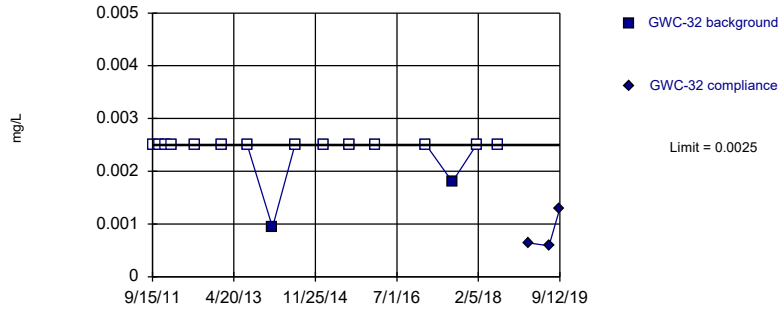


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.856, Std. Dev.=0.5866, n=12, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8392, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

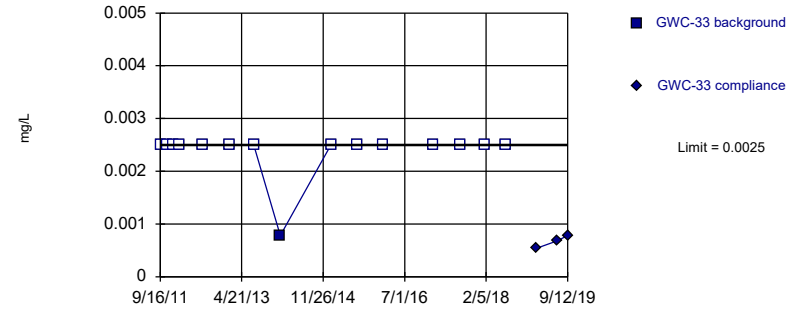


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

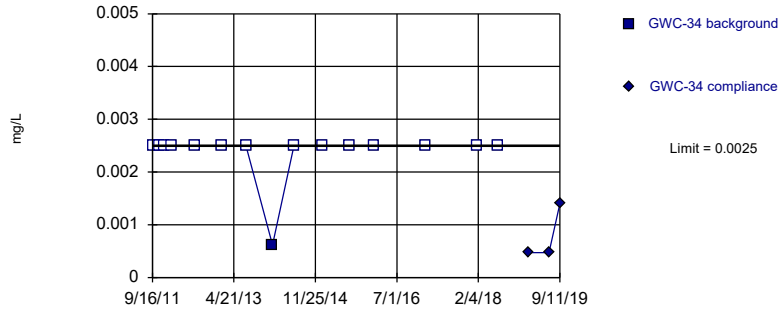


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

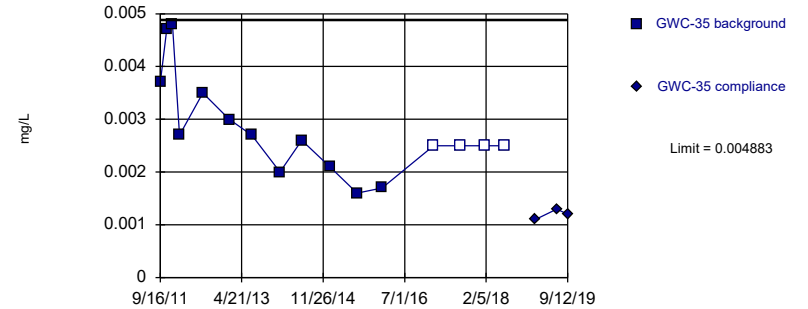


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



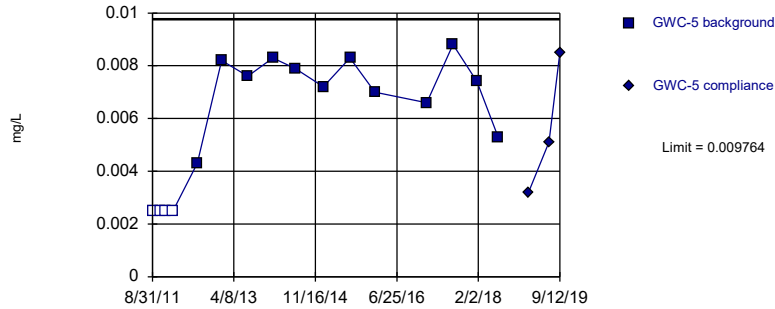
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002608, Std. Dev.=0.001025, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8853, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Parametric

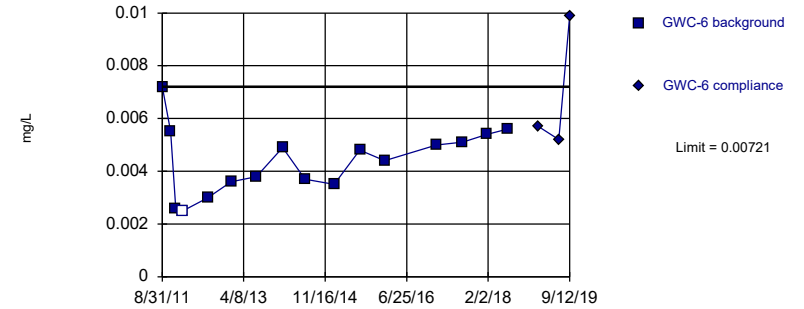


Background Data Summary (based on square transformation) (after Kaplan-Meier Adjustment): Mean=0.00003998, Std. Dev.=0.00002495, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8736, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

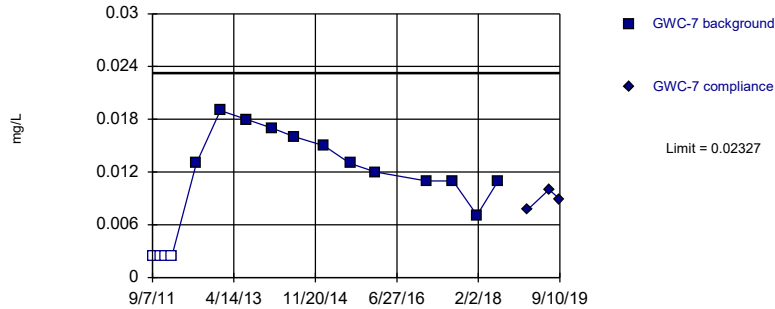


Background Data Summary: Mean=0.004412, Std. Dev.=0.001261, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9588, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

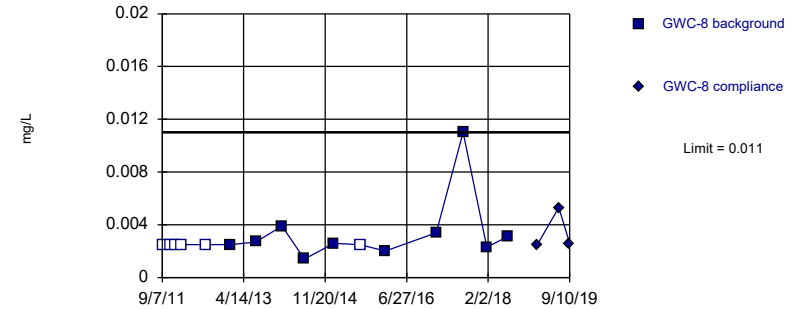


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.009385, Std. Dev.=0.006258, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8939, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



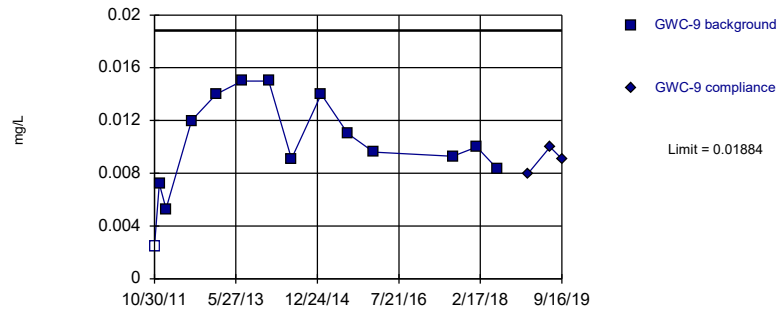
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



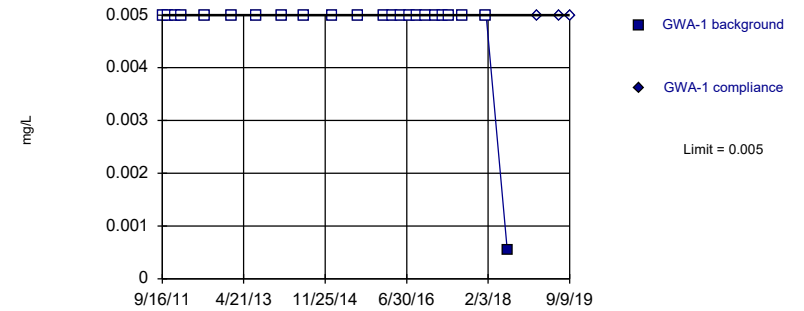
Background Data Summary: Mean=0.01016, Std. Dev.=0.003691, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.825. Kappa = 2.349 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



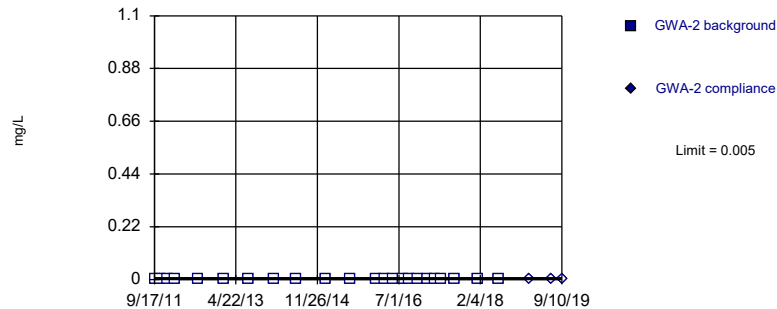
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



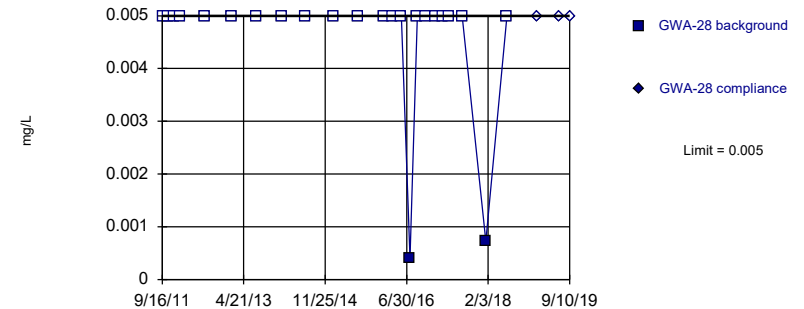
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

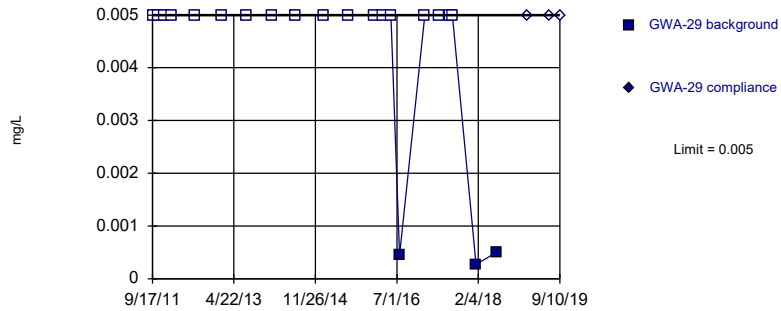


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

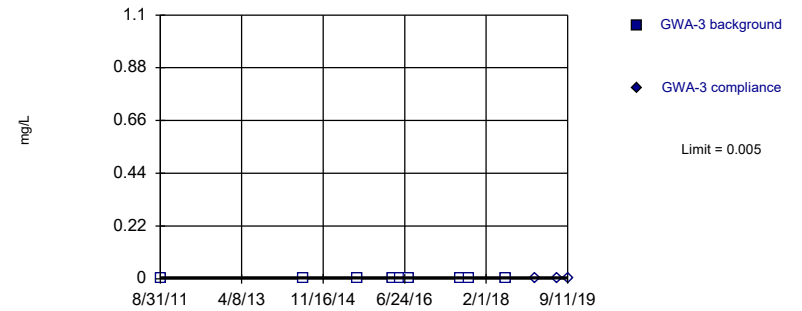


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

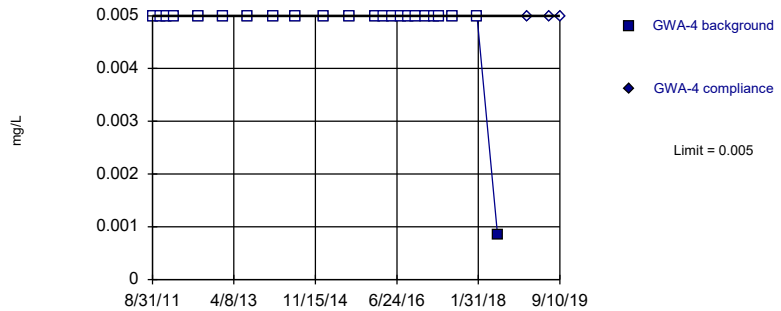


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

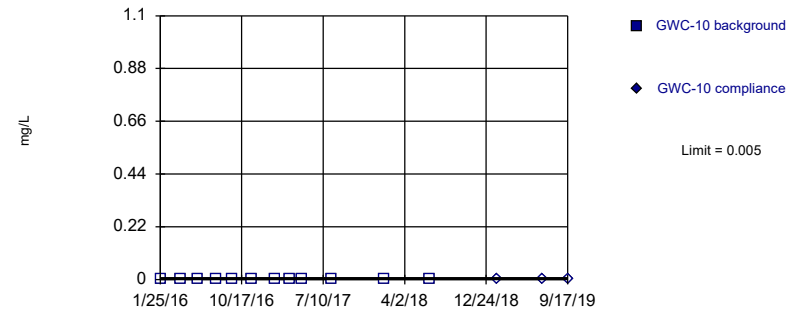


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:01 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

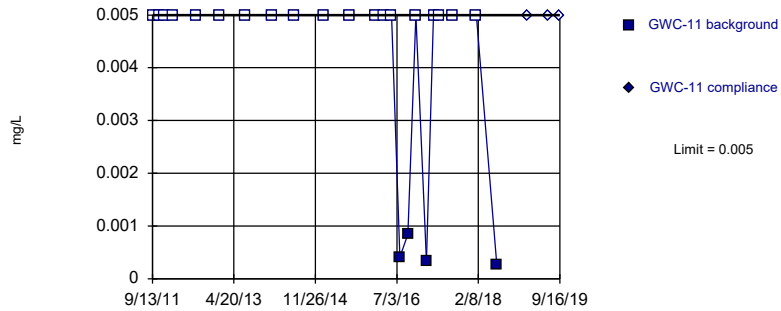


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

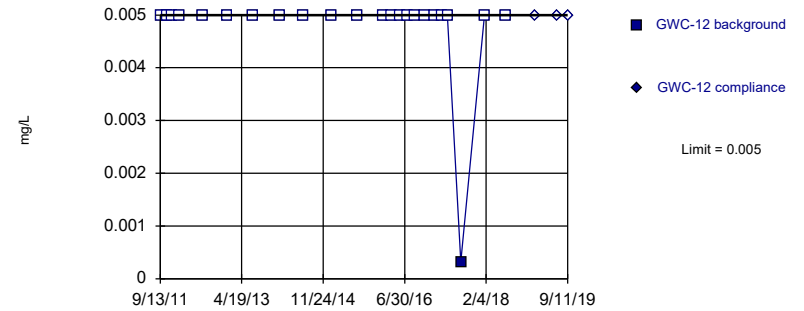


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

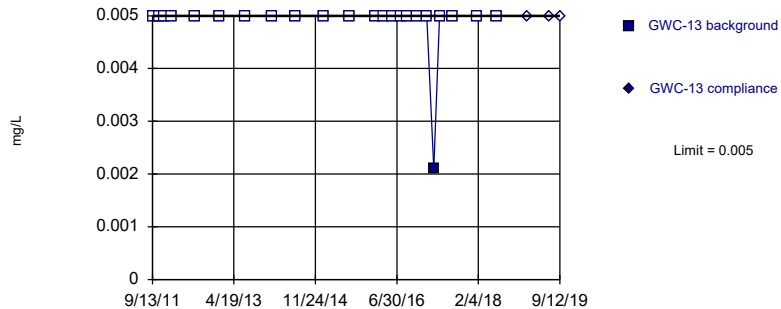


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

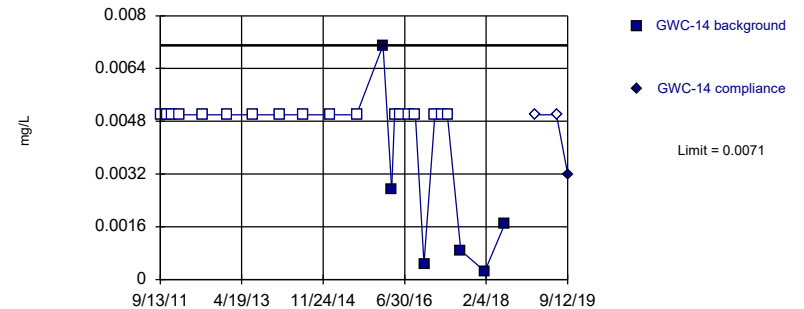


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

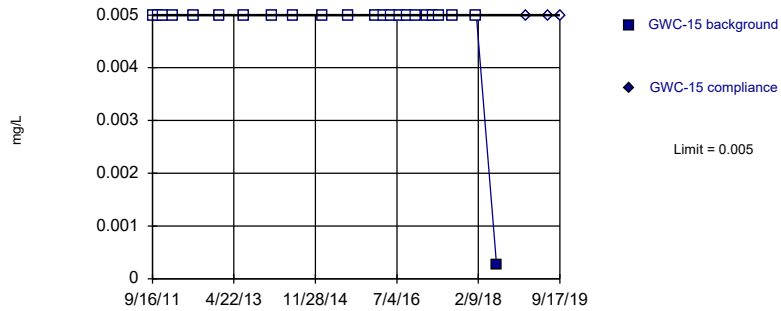


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.0007123. Individual comparison alpha = 0.0003562 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

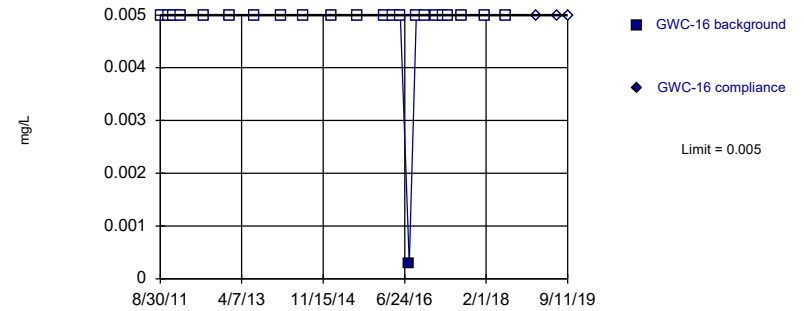


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

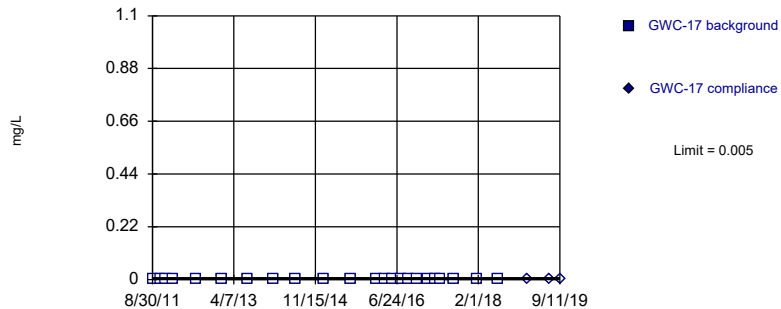


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

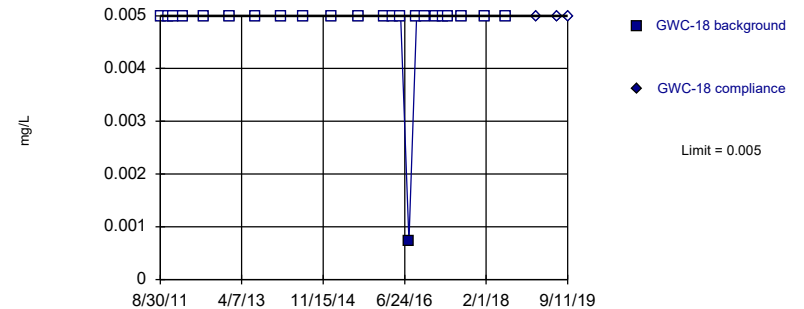


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

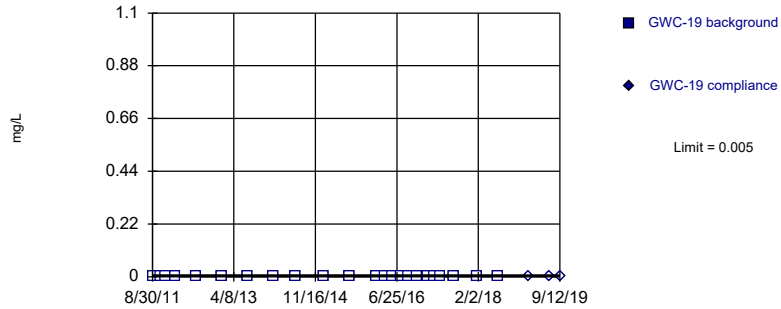
Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

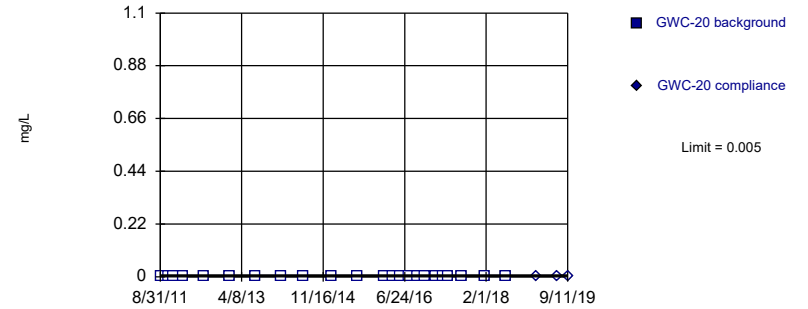
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. 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: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

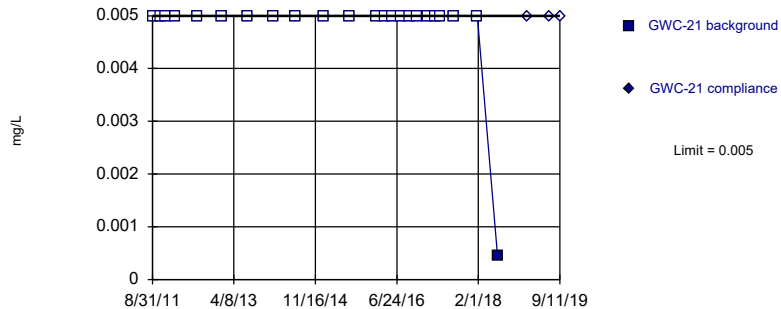
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. 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: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

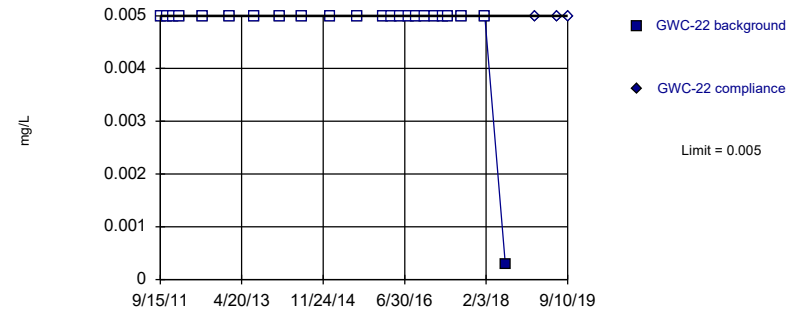
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

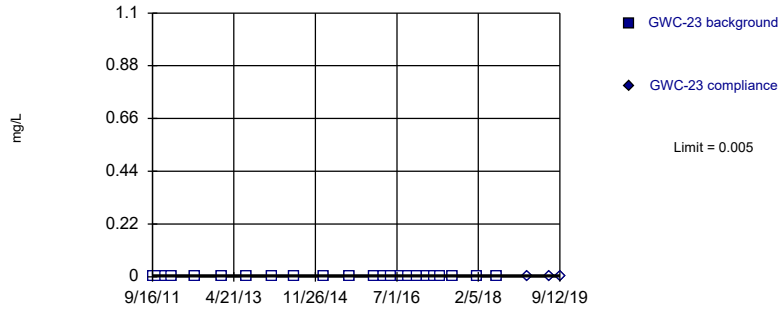
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

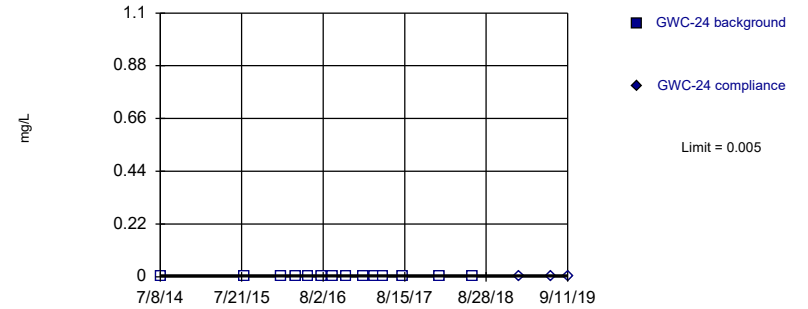
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. 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: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

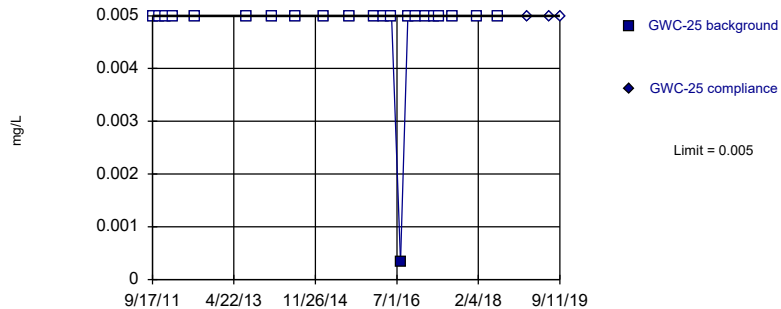
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. 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: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

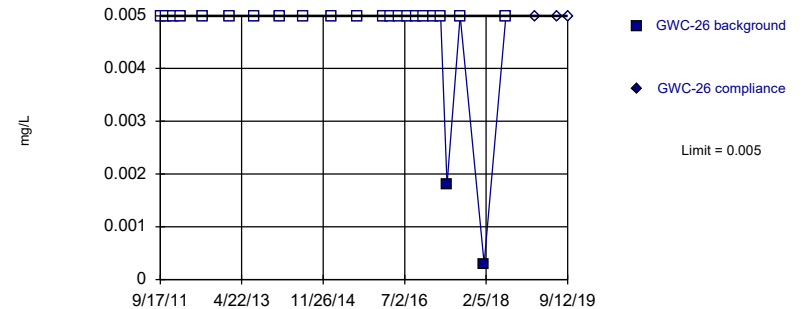
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit Prediction Limit  
 Intrawell Non-parametric

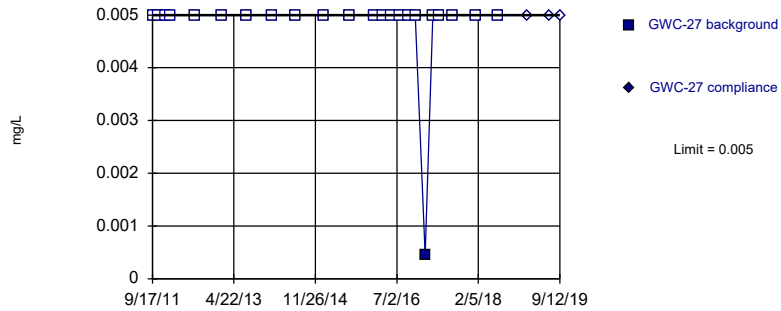


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

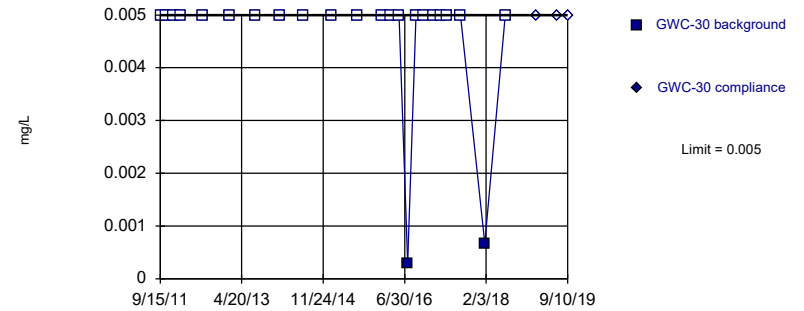


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

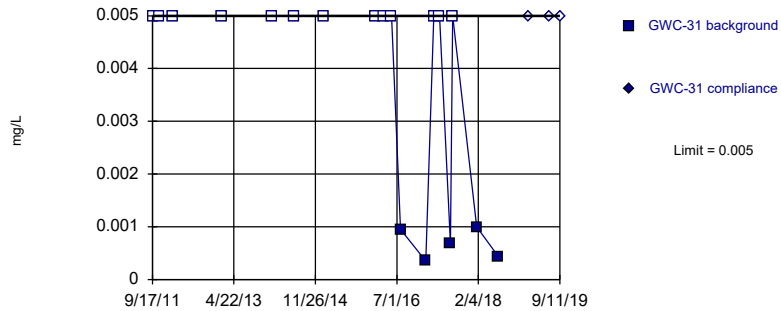


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

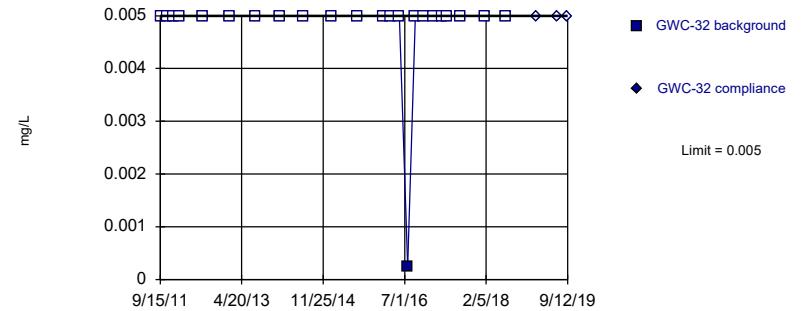


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



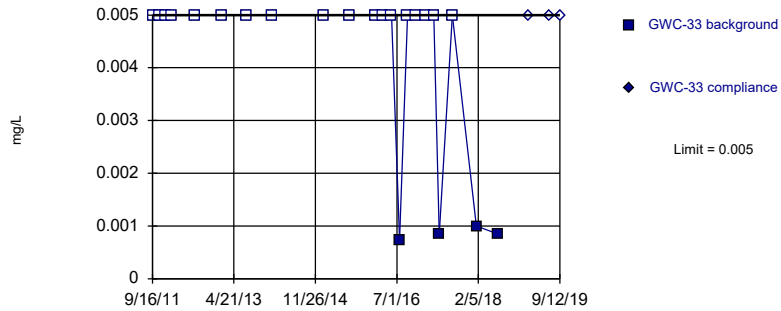
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

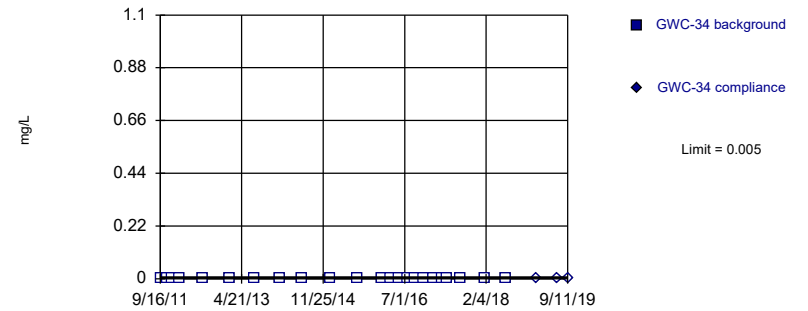


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

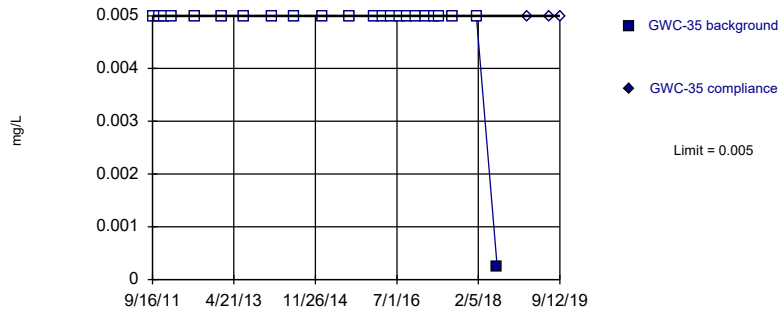


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:02 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

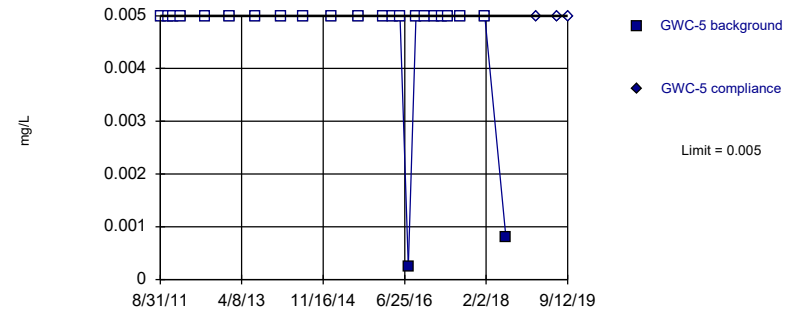


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

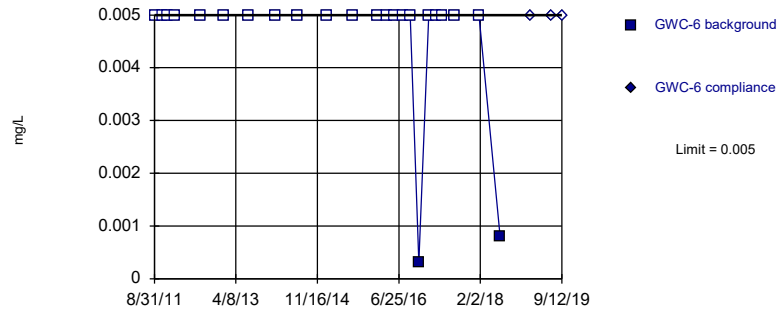


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

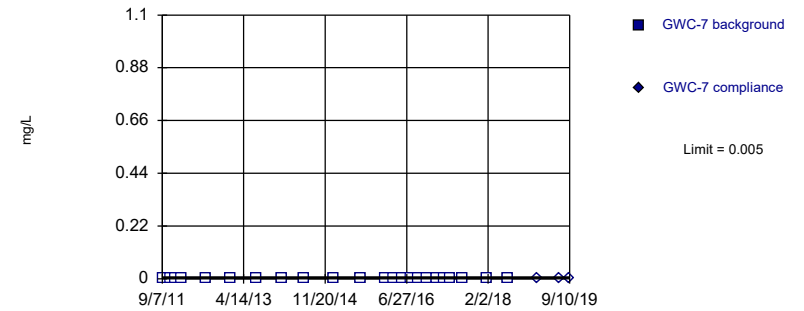


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

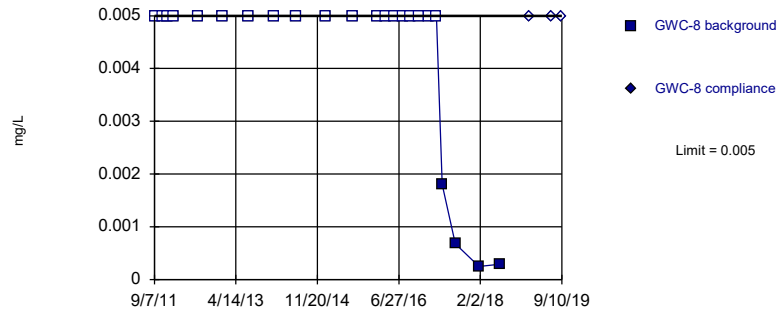


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

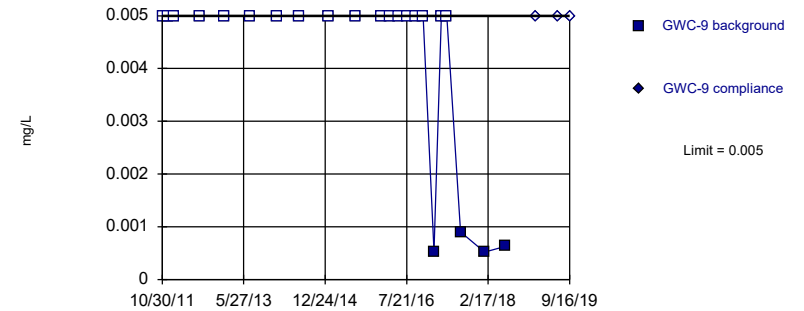


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

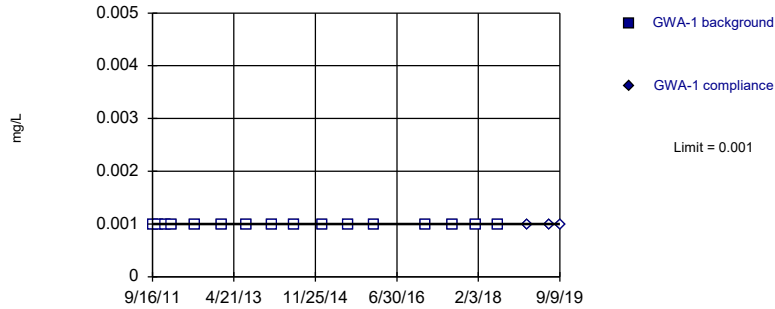


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Selenium Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

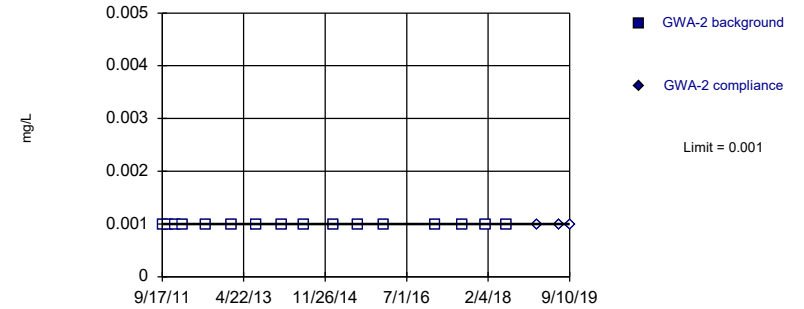


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

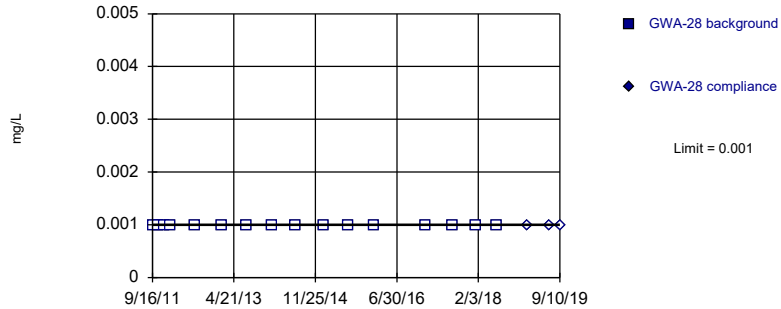


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

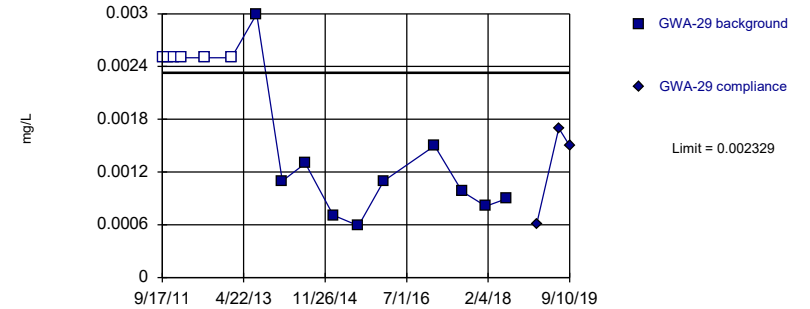


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

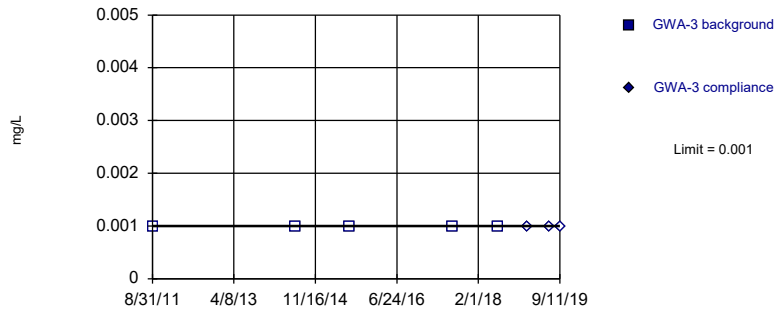


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03226, Std. Dev.=0.007215, n=16, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8621, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

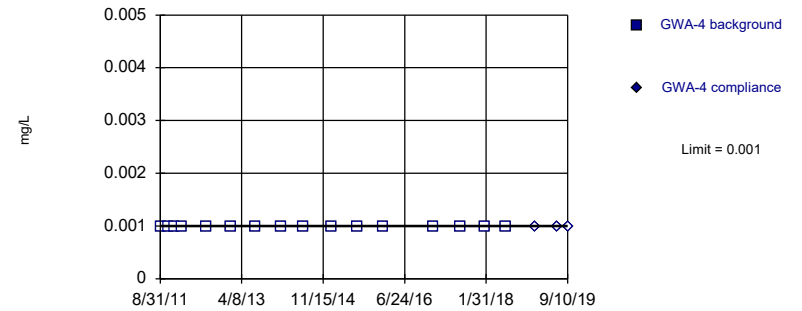


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

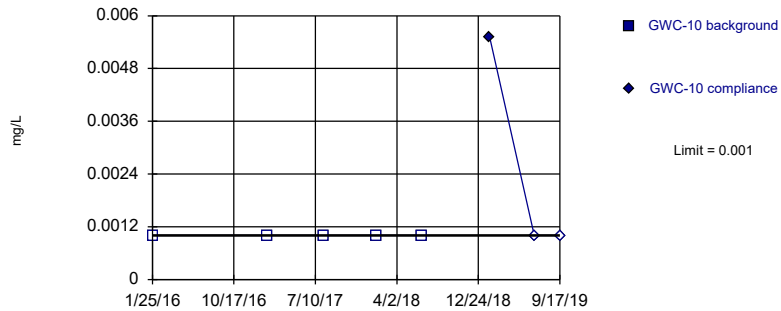


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

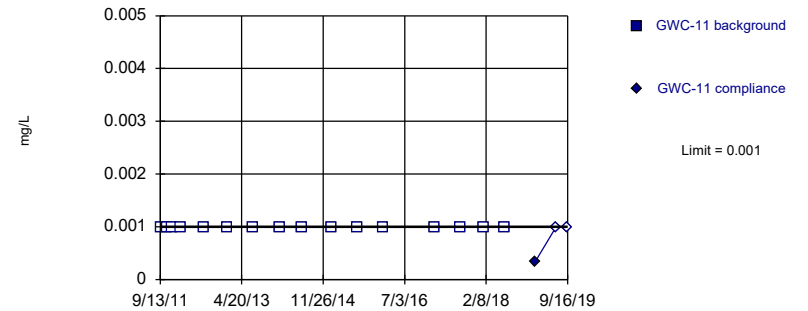


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

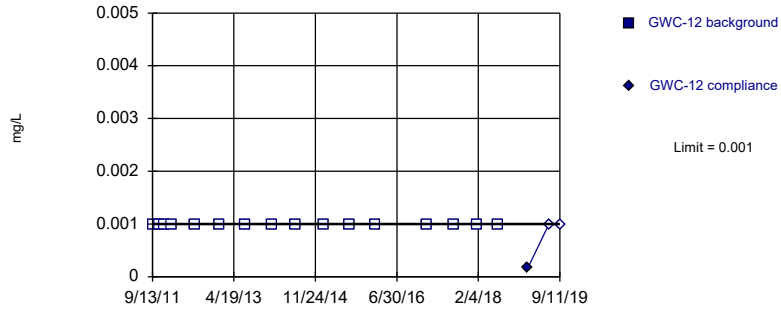


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

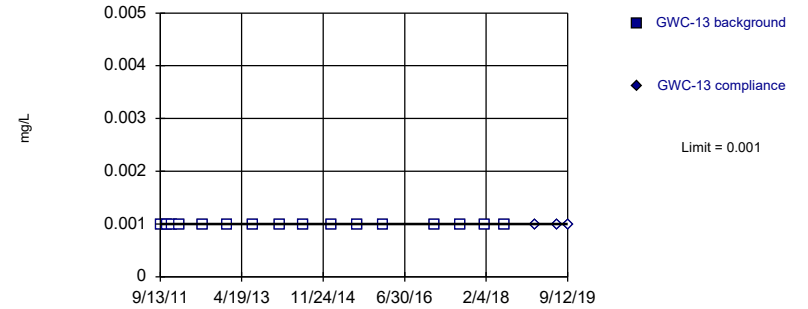


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

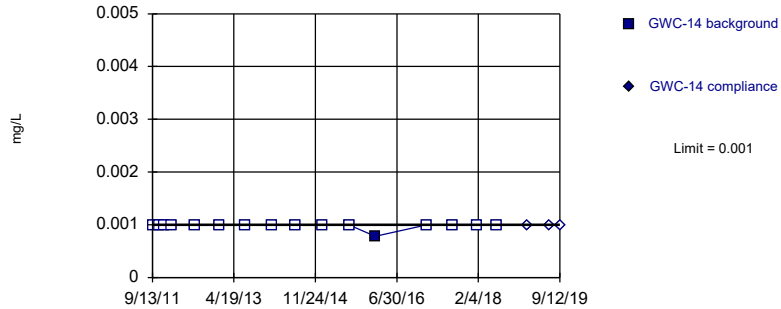


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

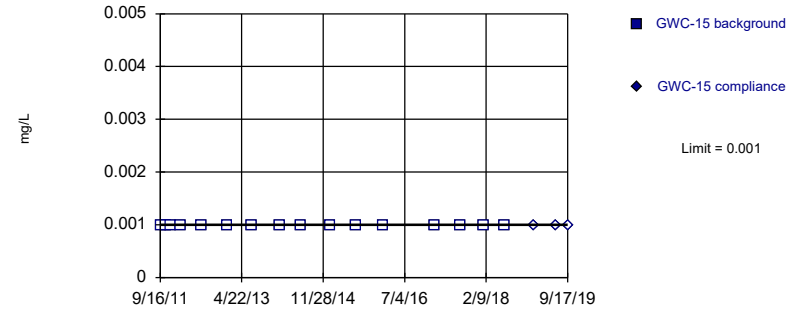


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

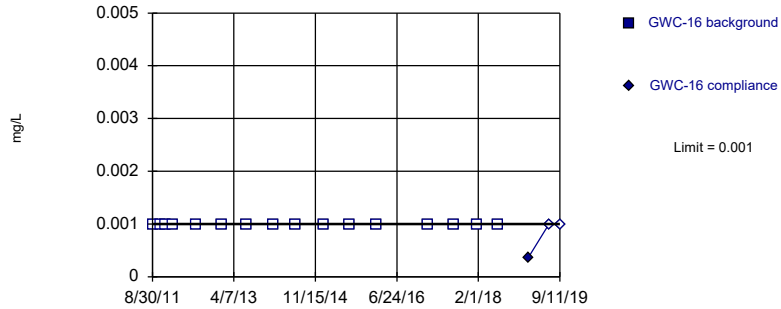


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

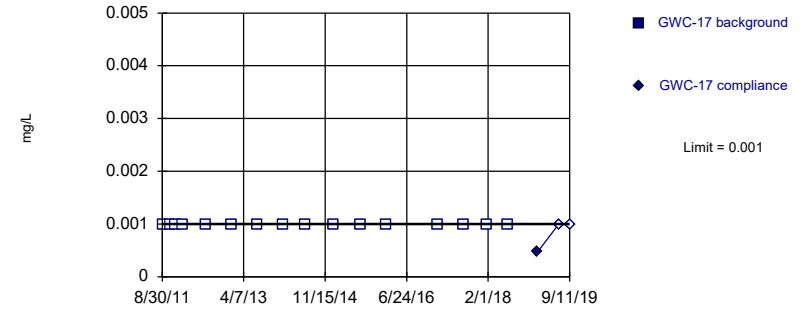


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

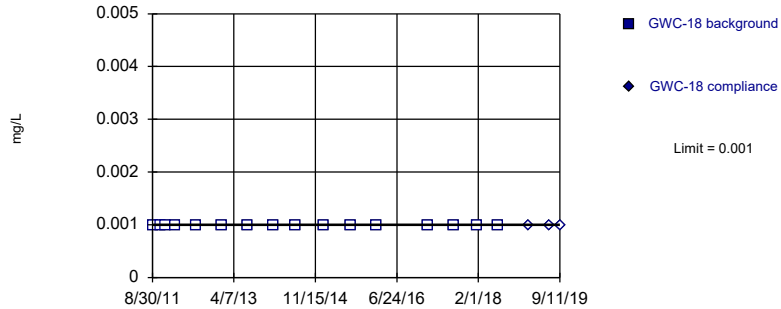


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

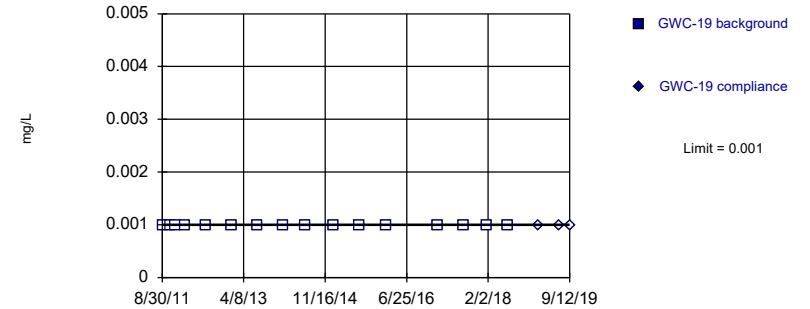


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

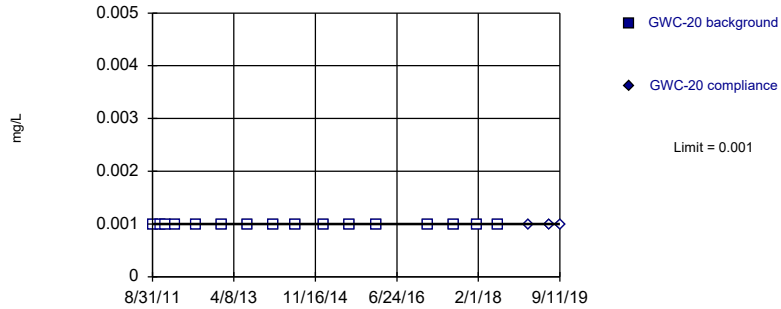


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

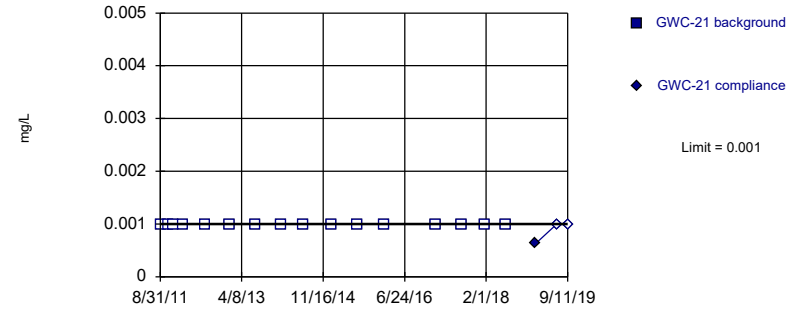


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

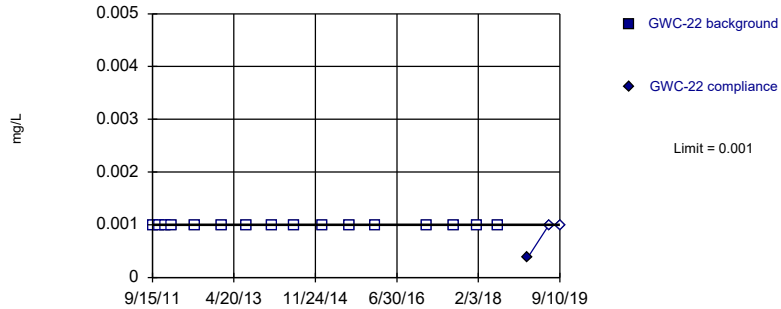


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

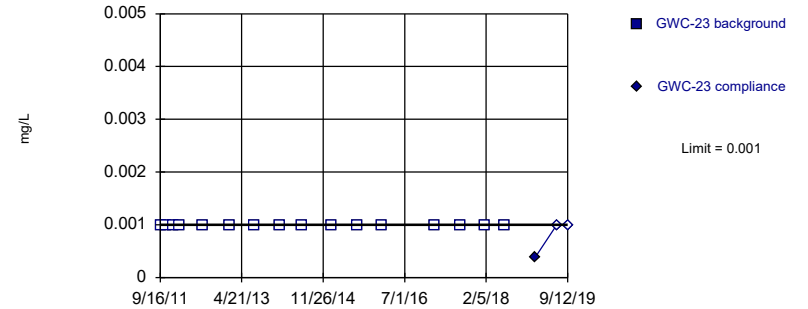


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

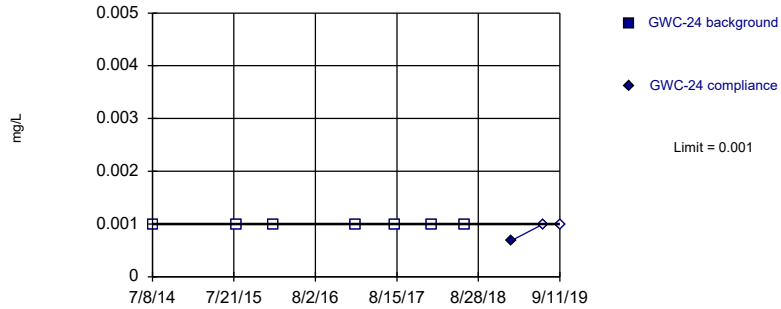


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

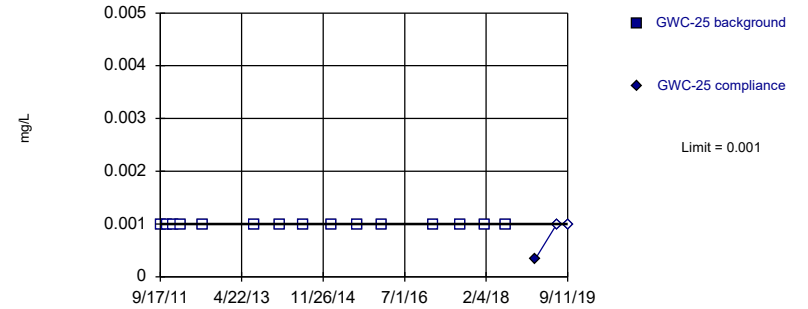


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 7) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:03 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

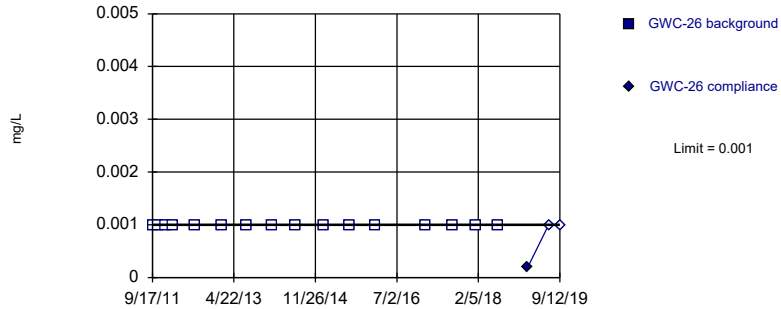


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

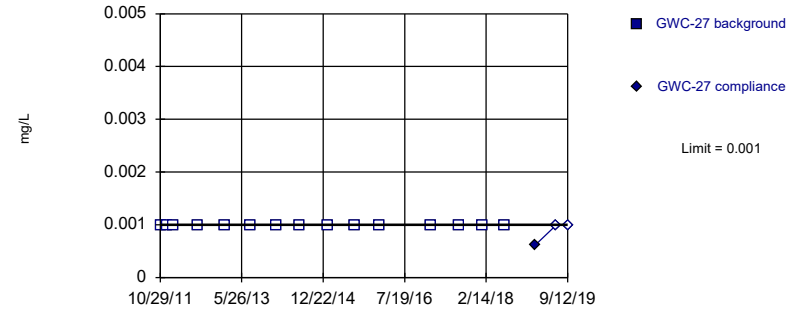


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



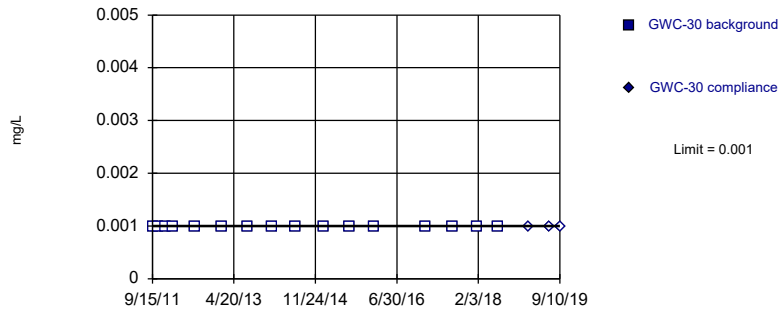
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

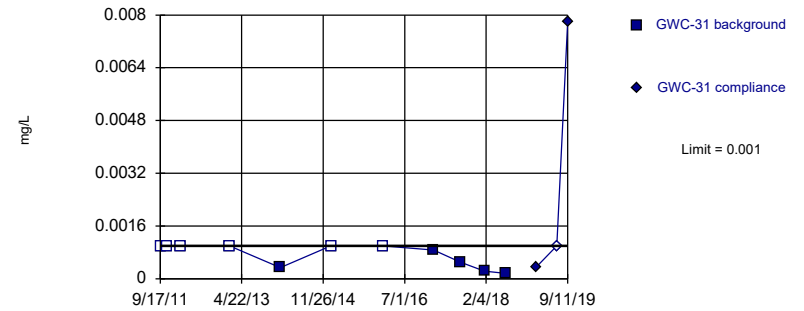


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

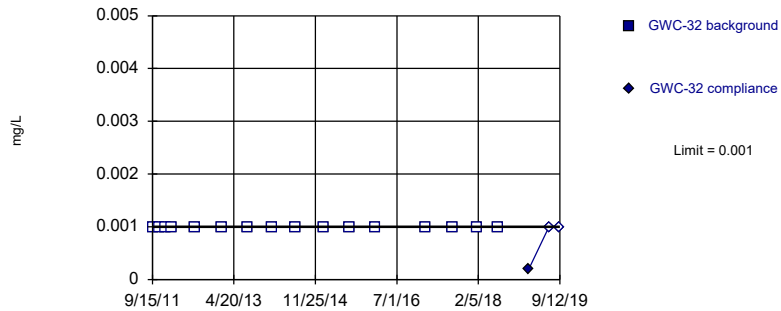


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

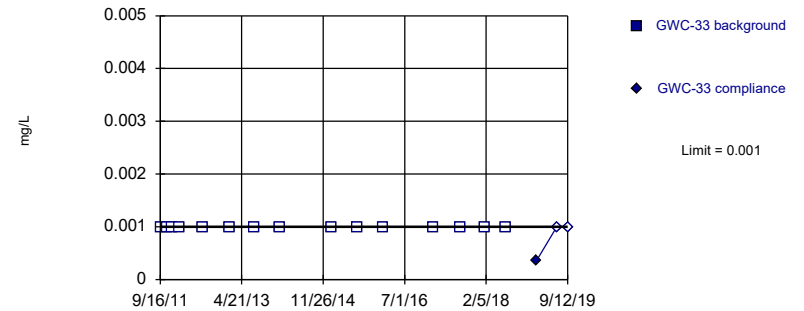


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

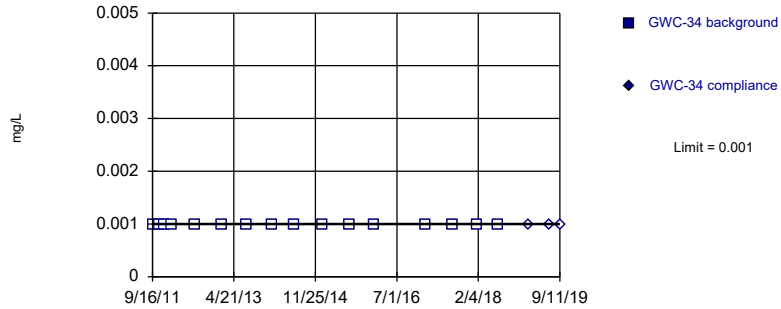


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

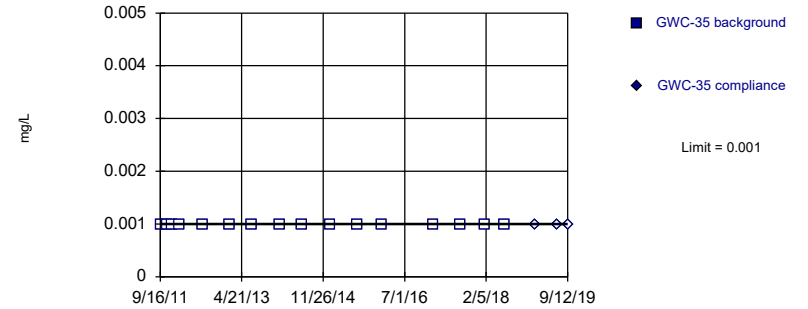


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

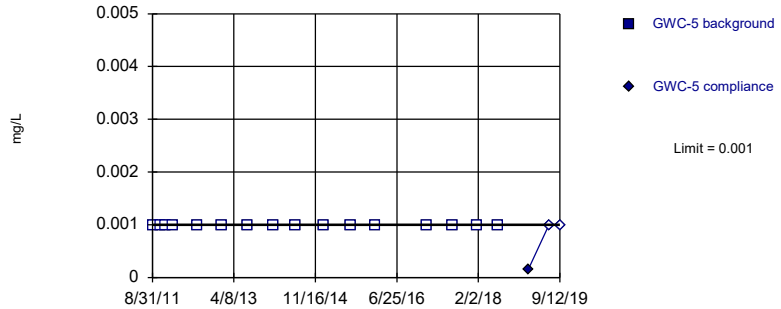


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

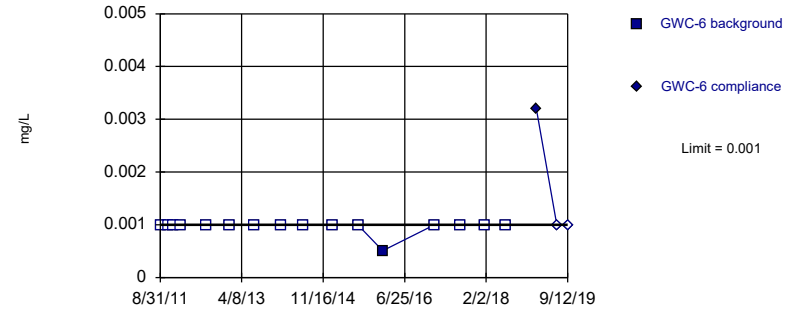


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

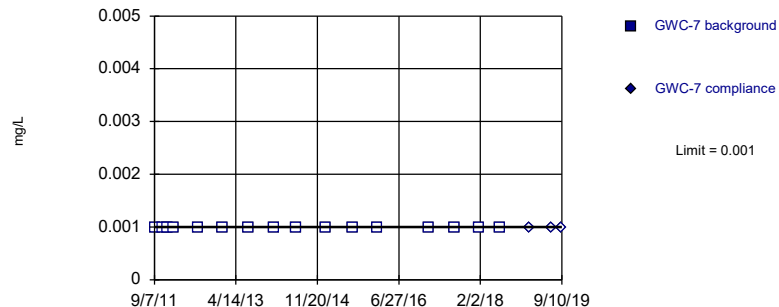


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

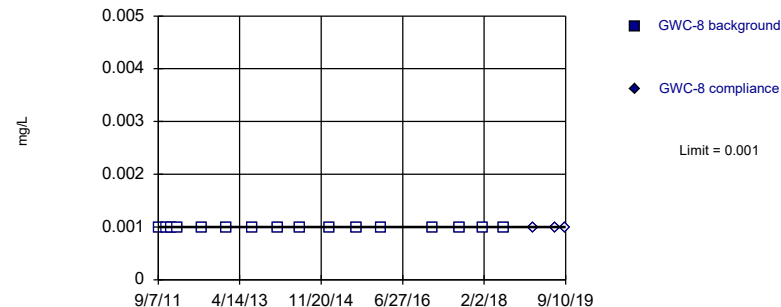


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

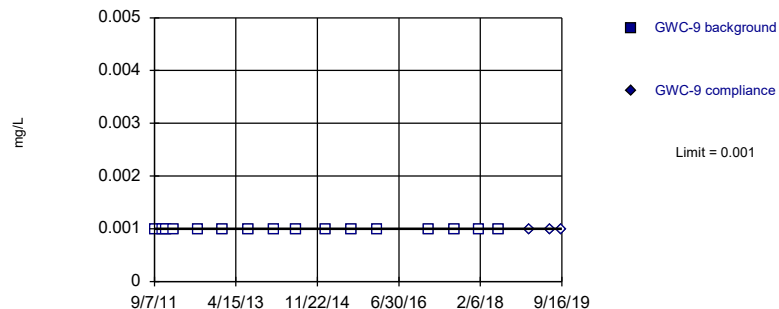


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

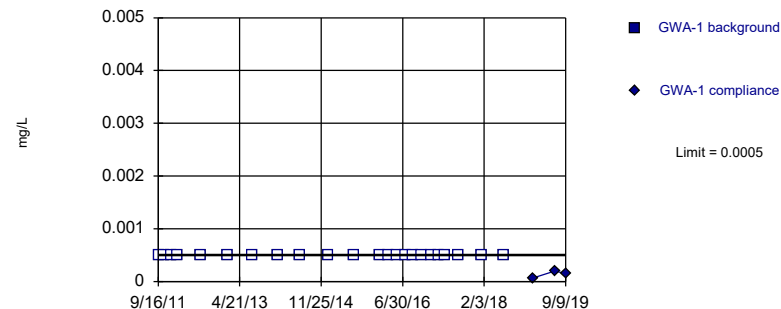


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



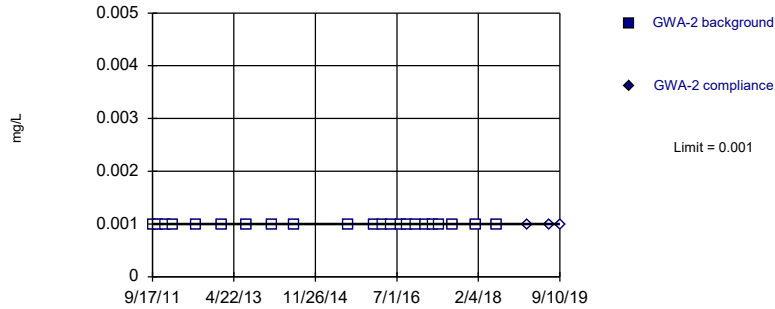
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



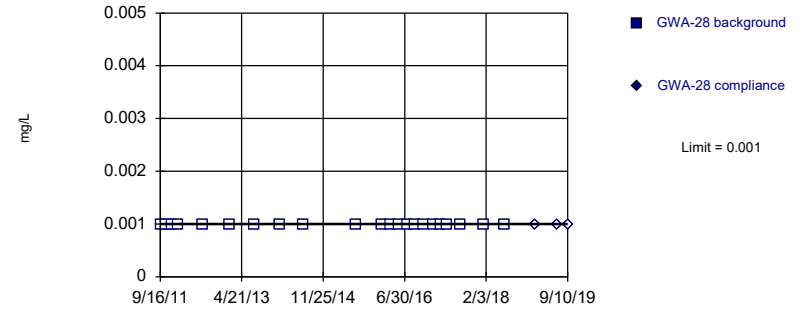
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



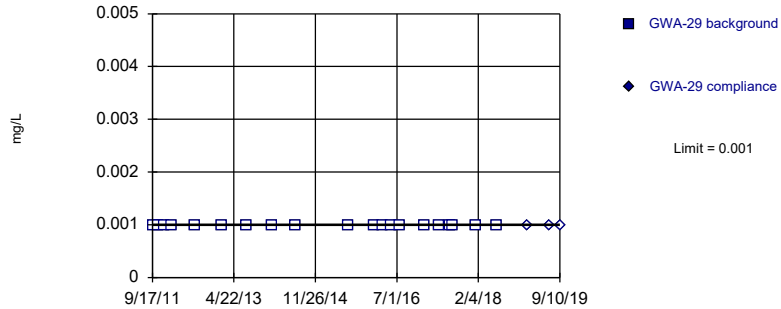
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



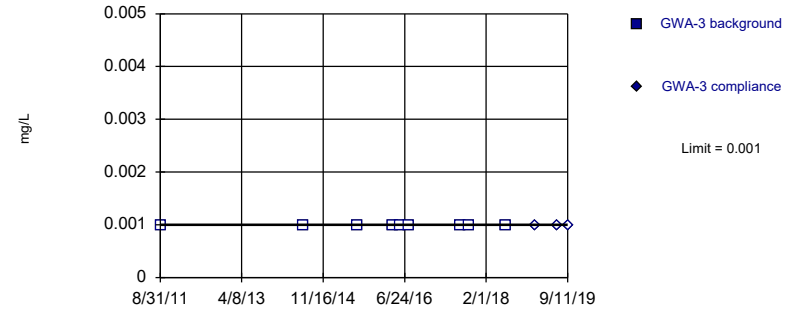
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

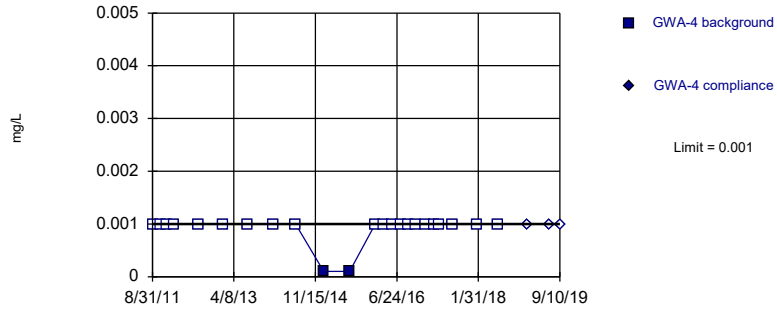


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

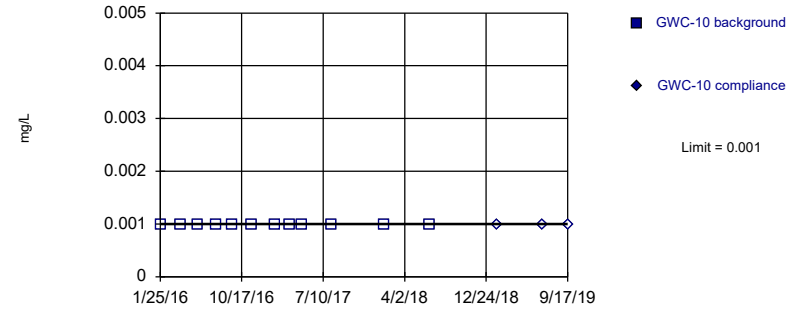


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

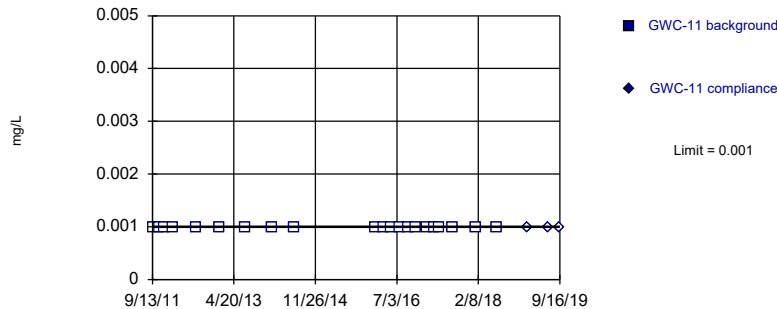


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

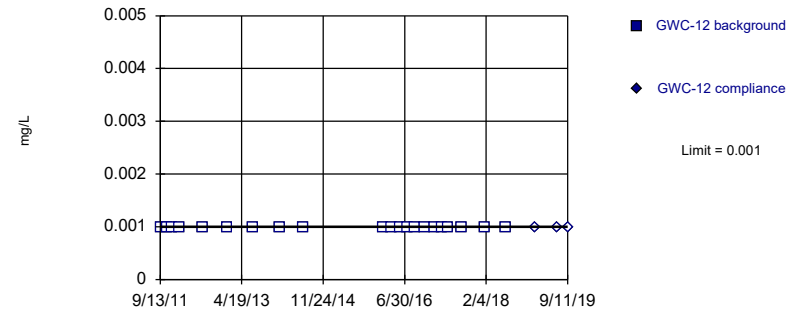


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



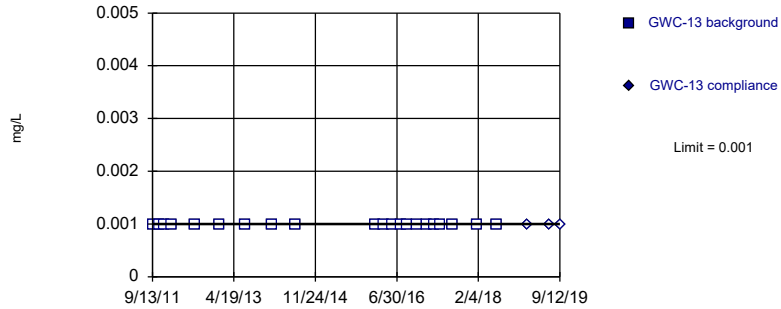
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



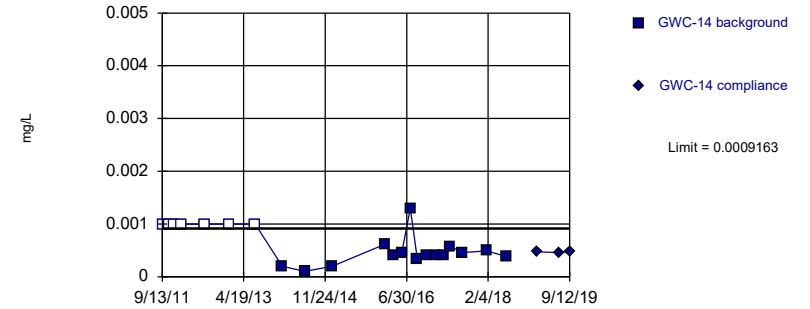
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



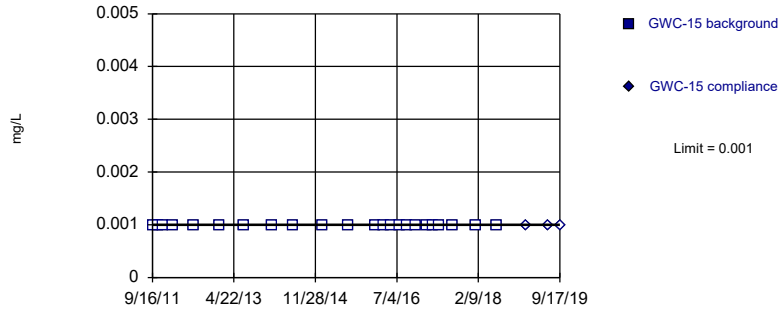
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0004118, Std. Dev.=0.0002469, n=22, 31.82% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8851, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



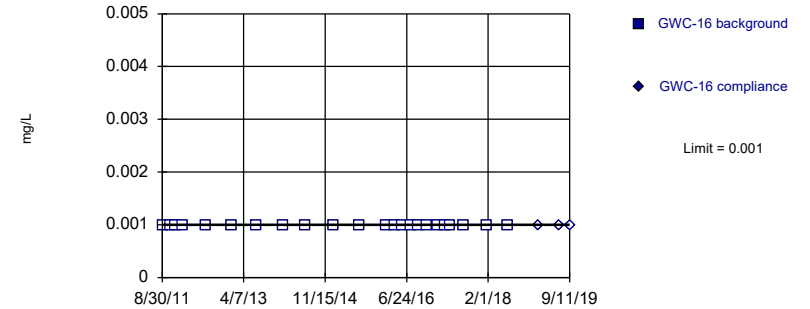
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.23e Sanitas software utilized by Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

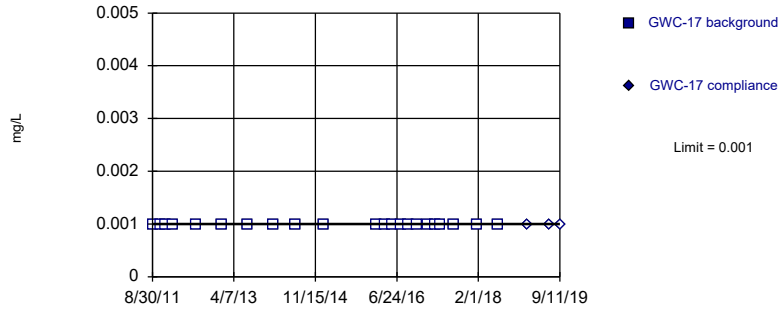


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

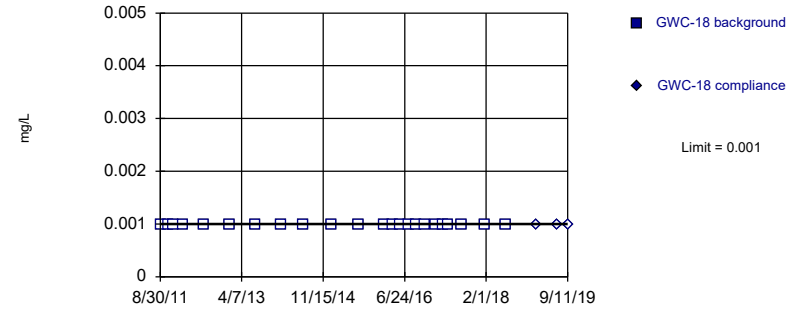


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

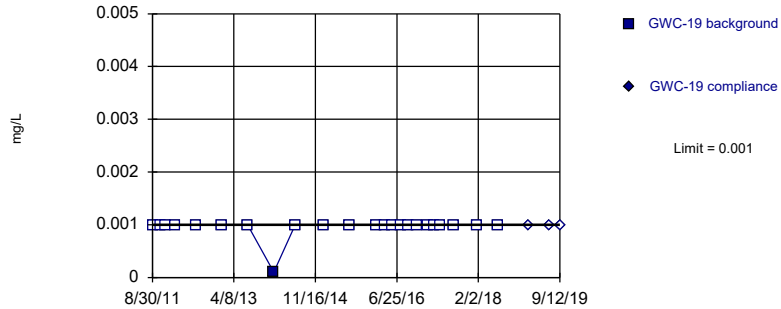


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:04 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

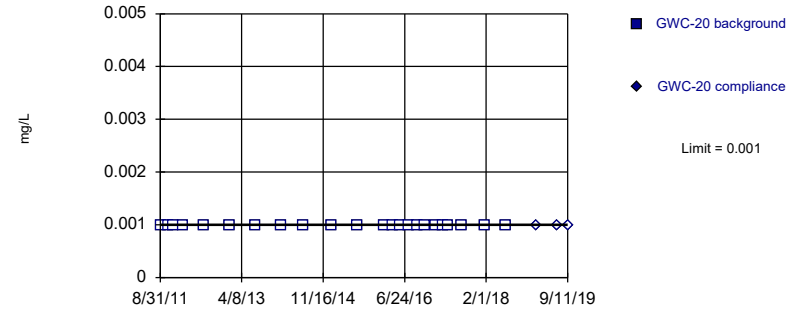


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

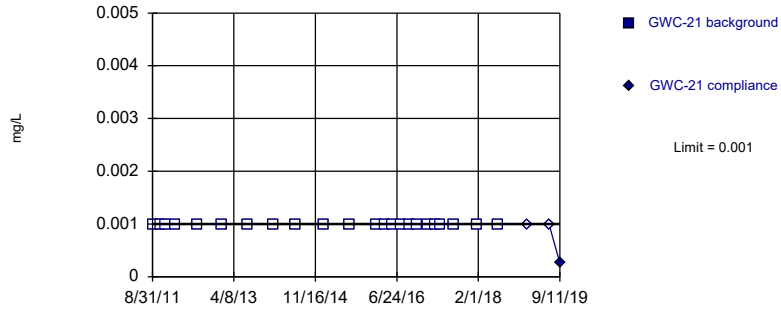


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

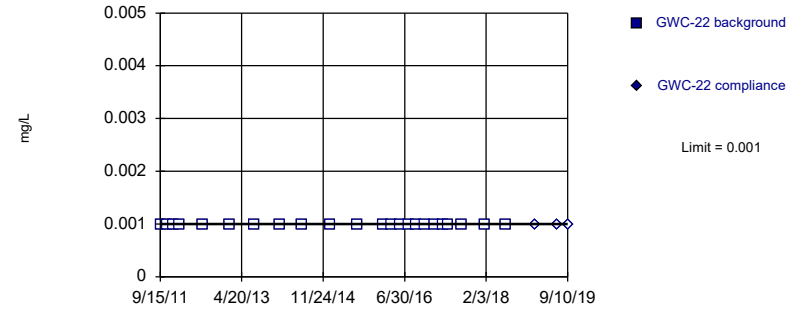


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

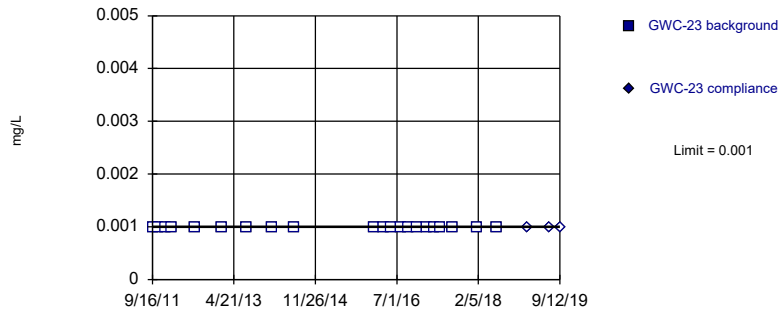


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

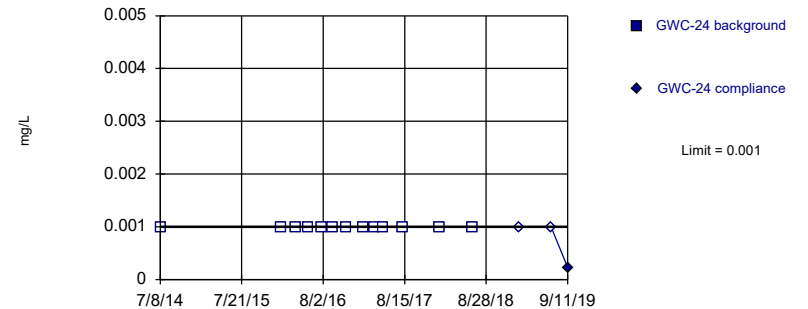


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



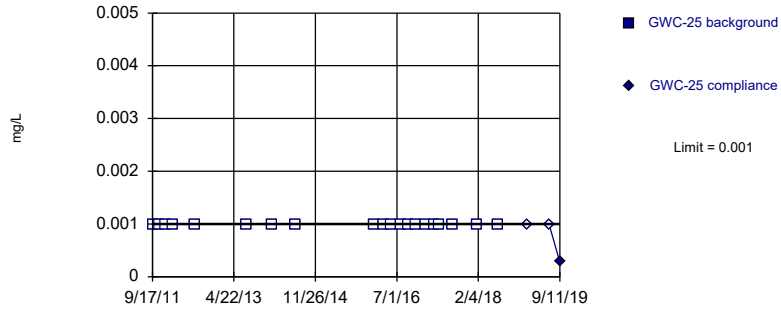
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 13) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003769. Individual comparison alpha = 0.001886 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
 Intrawell Non-parametric

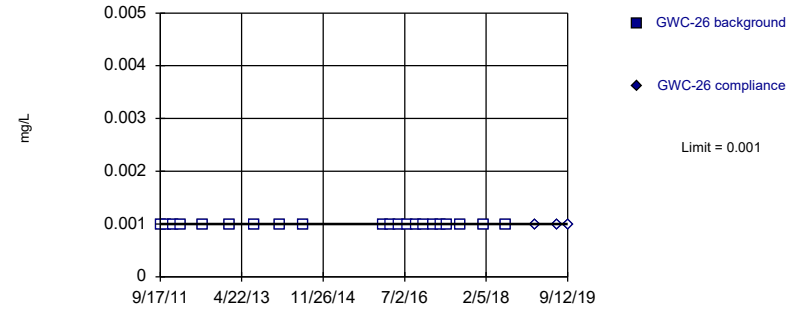


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

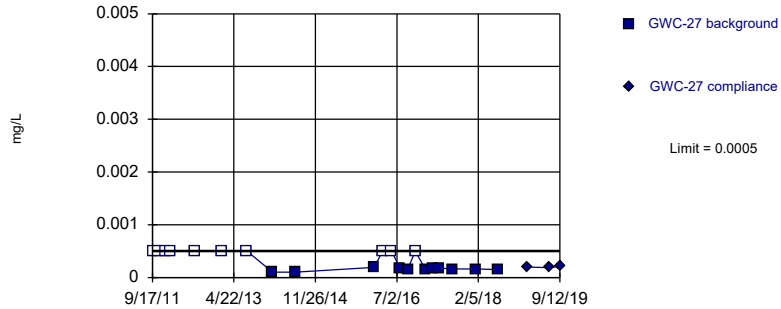


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

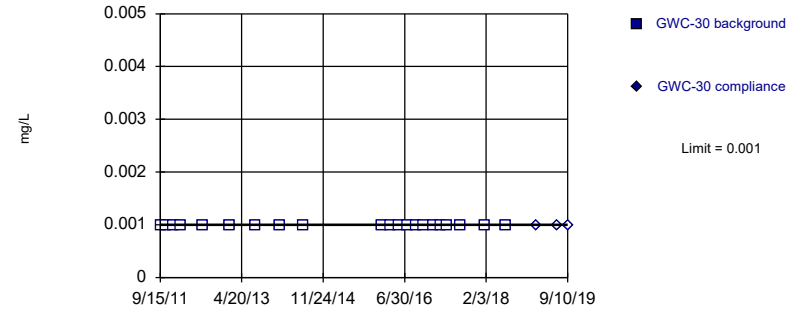


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 47.62% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

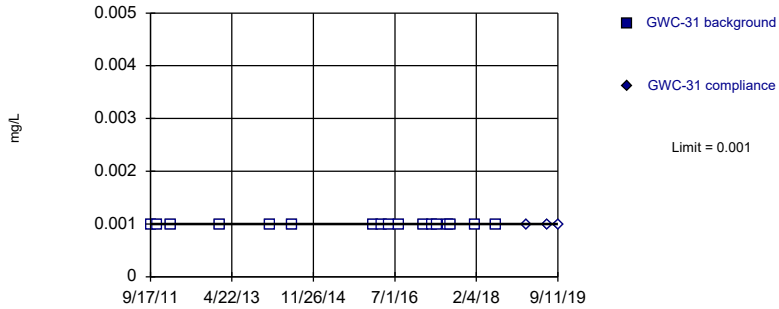


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

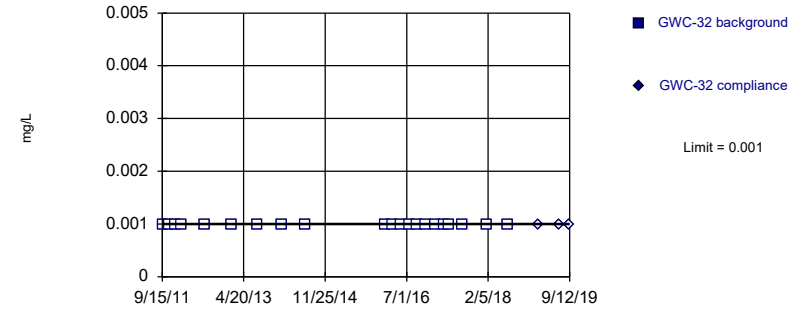


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00182. Individual comparison alpha = 0.0009102 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

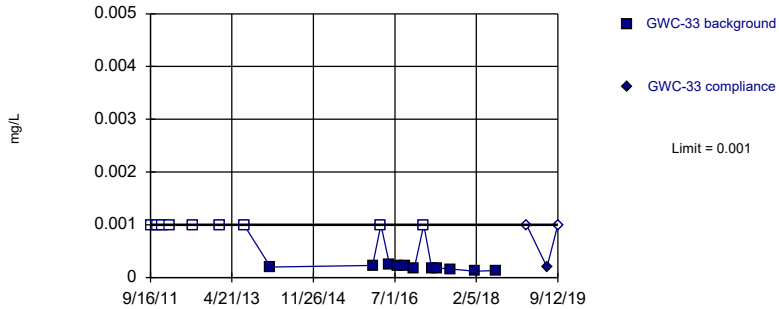


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

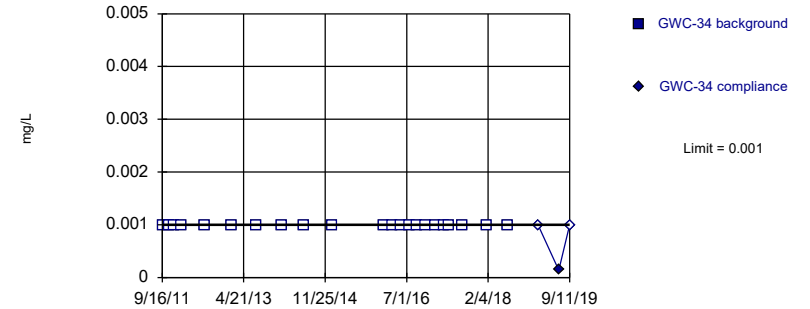


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 45% NDs. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

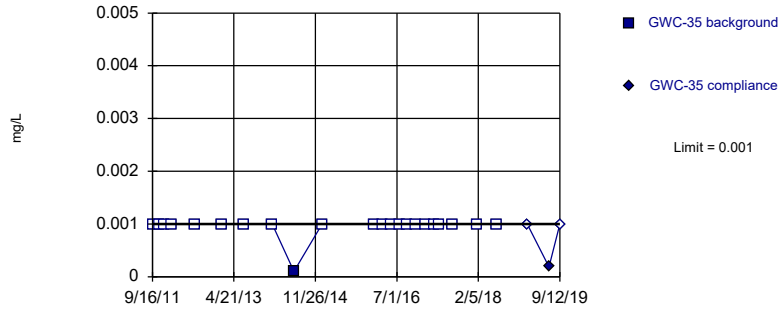


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

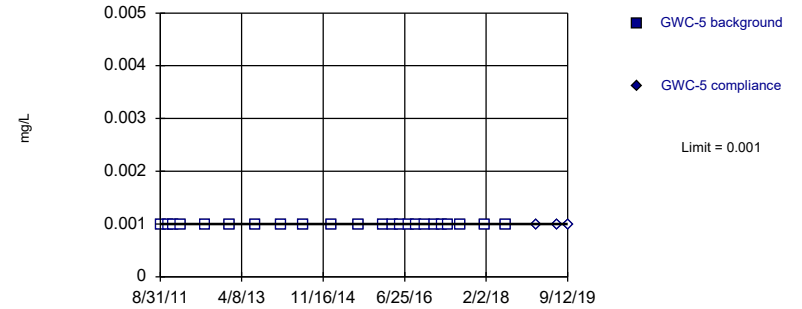


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

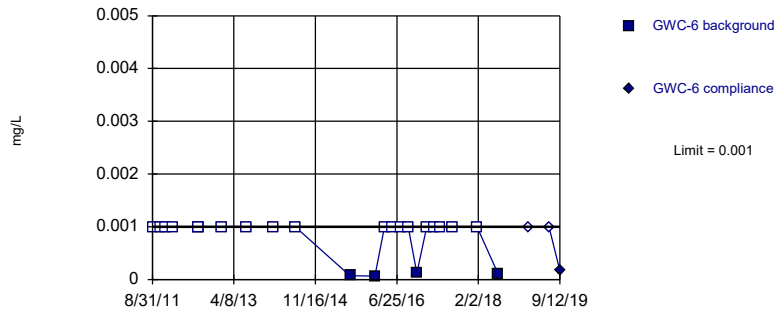


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

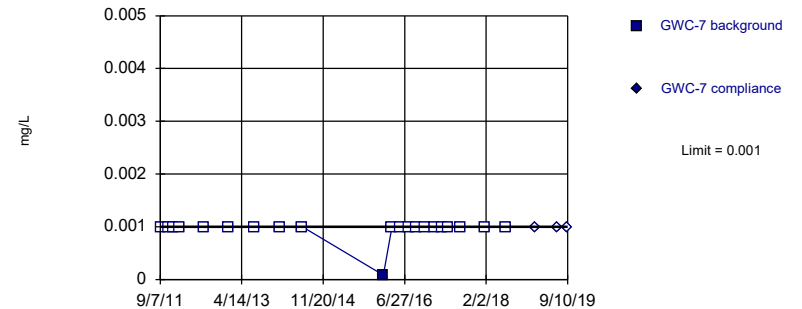


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

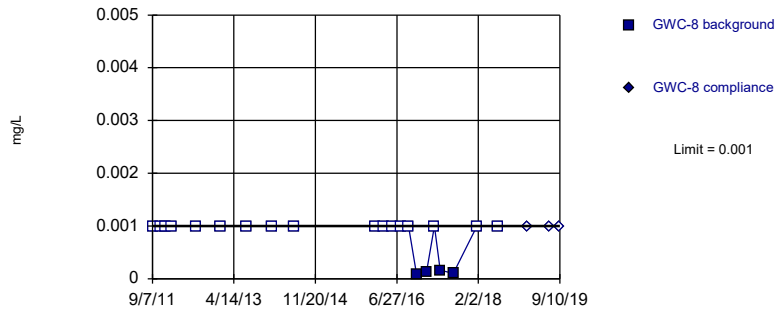


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

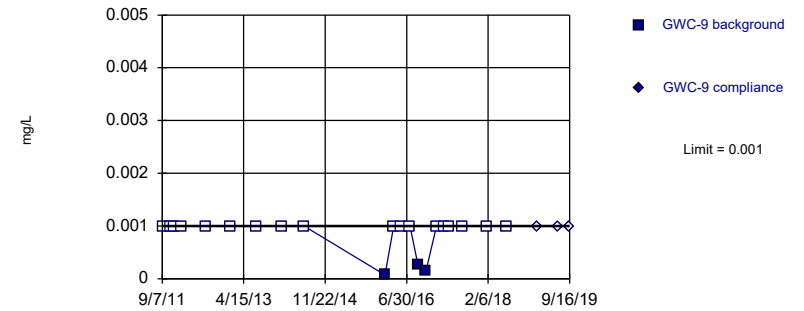


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

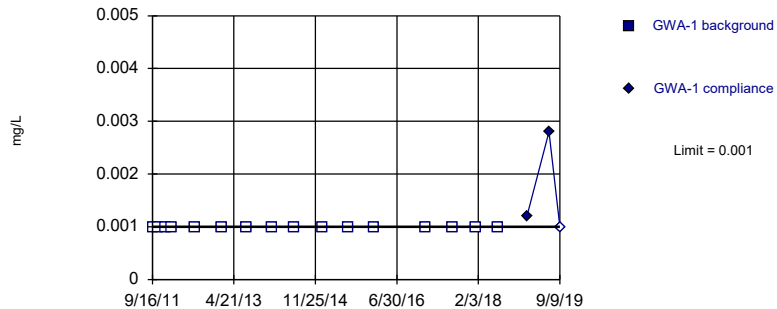


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

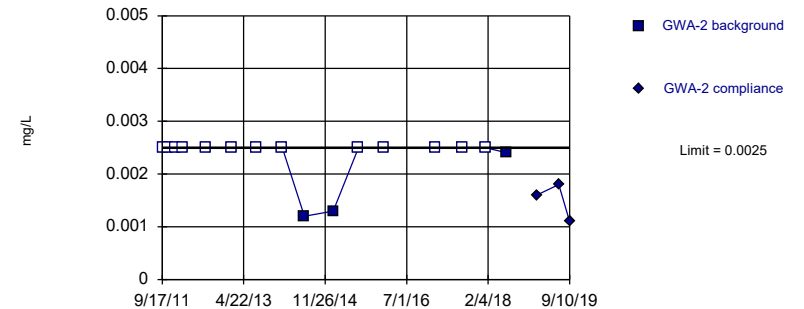


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

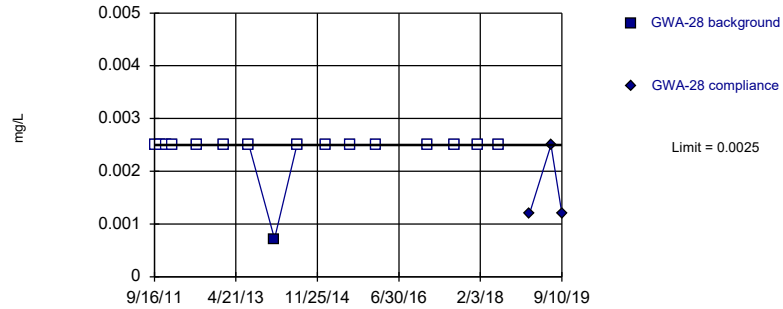


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

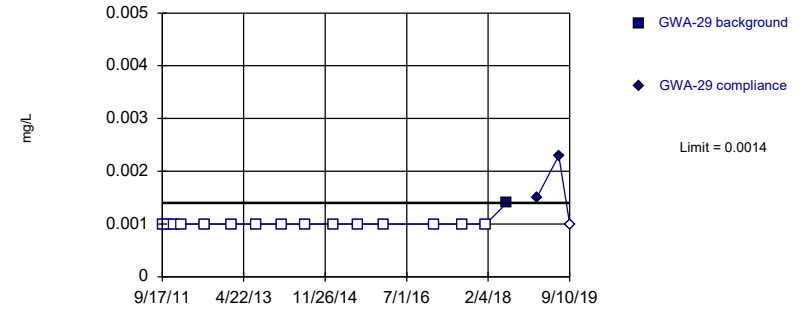


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

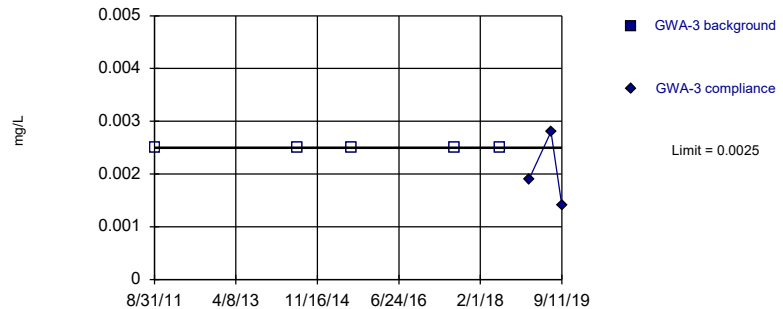


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

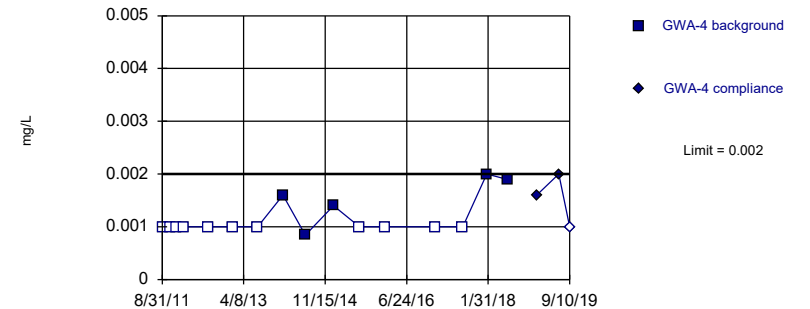


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

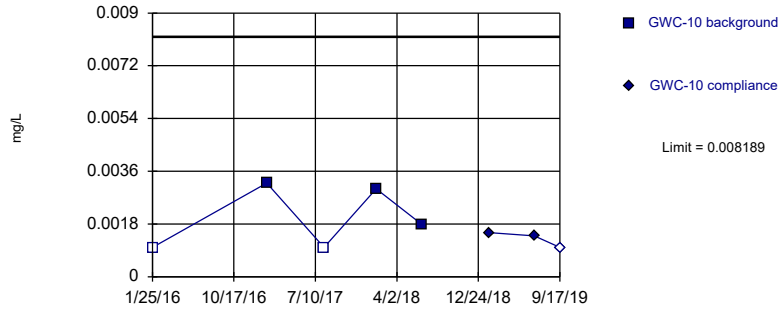


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

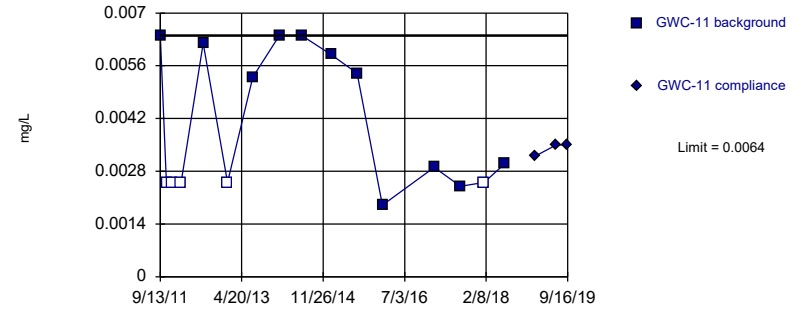


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002, Std. Dev.=0.0009466, n=5, 40% NDs.  
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8442, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

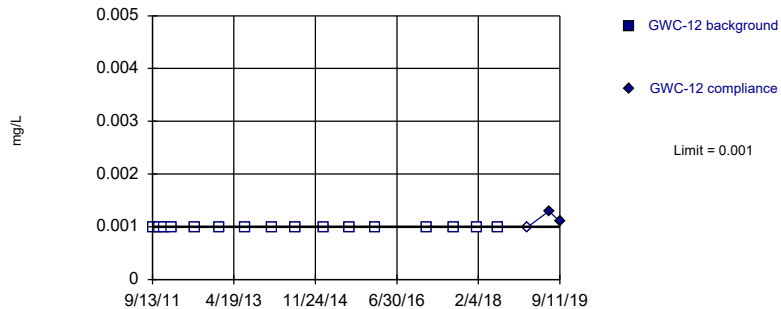


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 31.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

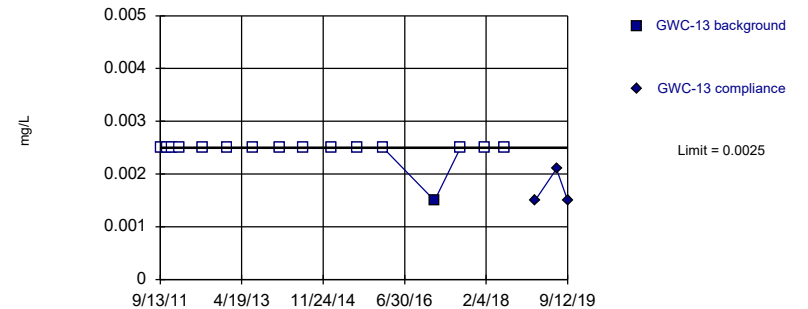


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

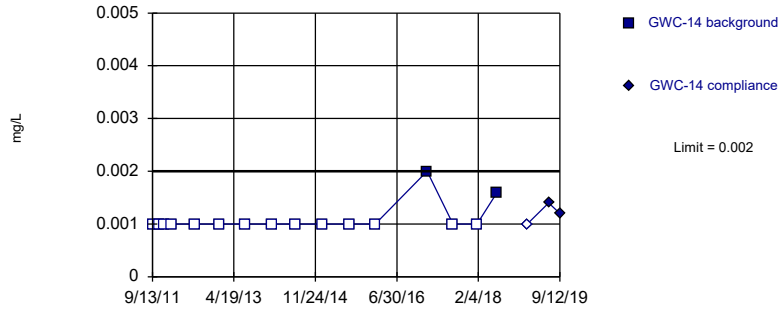


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

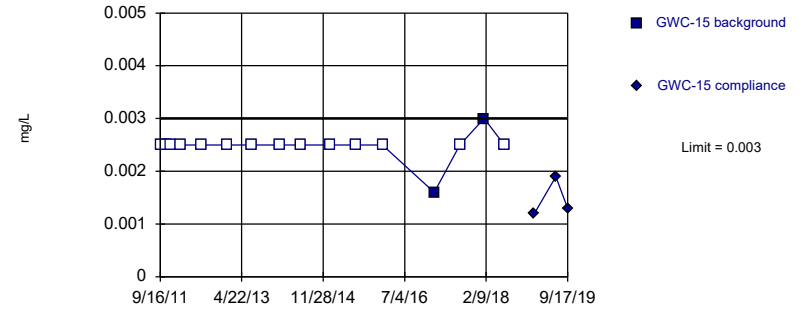


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:05 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

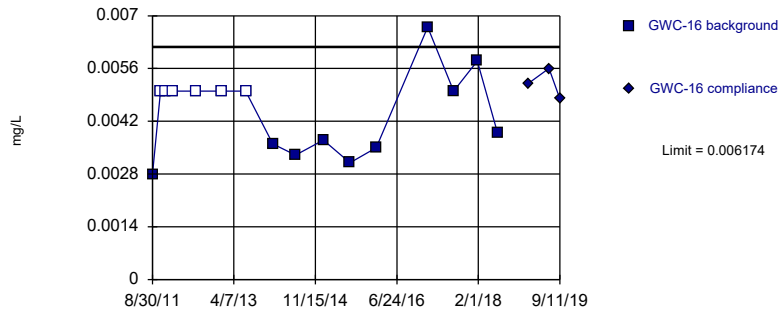


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

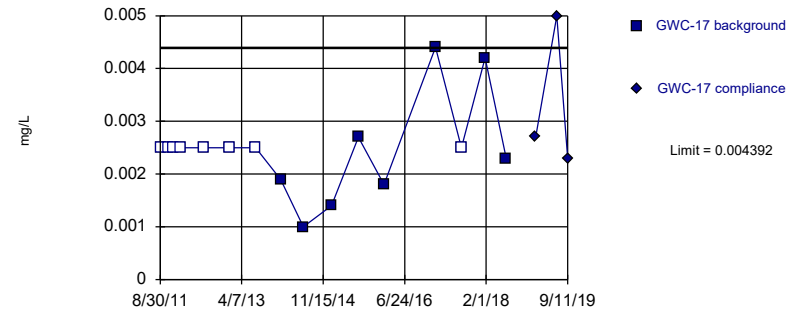


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003868, Std. Dev.=0.001039, n=16, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9117, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

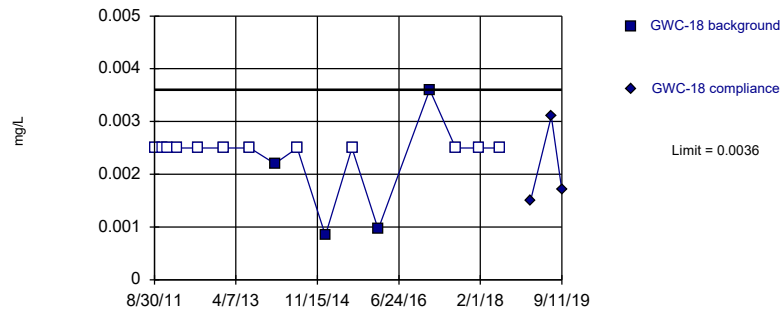


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04443, Std. Dev.=0.009845, n=16, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8643, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

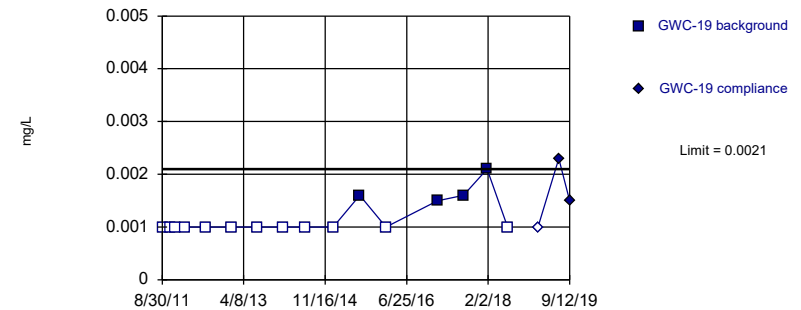


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

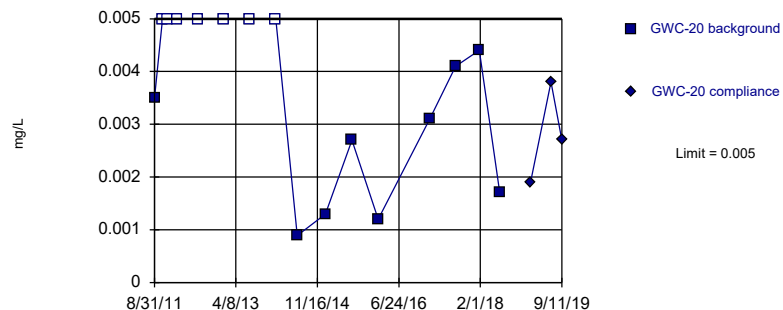


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

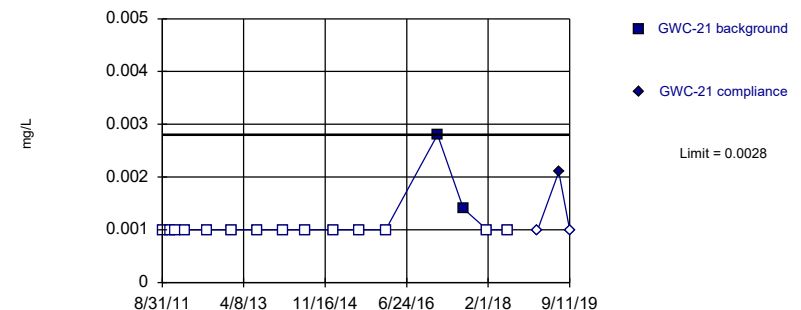


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 43.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



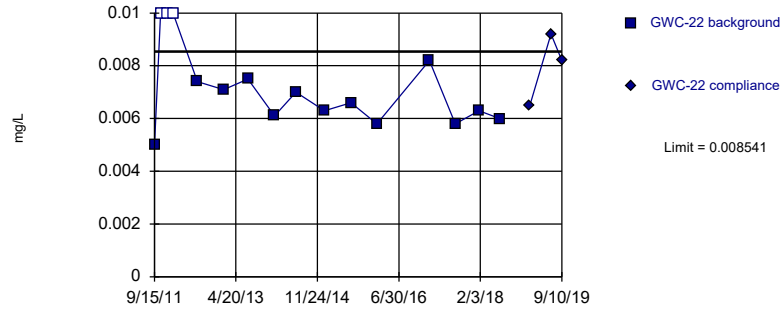
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Within Limit

Prediction Limit  
Intrawell Parametric

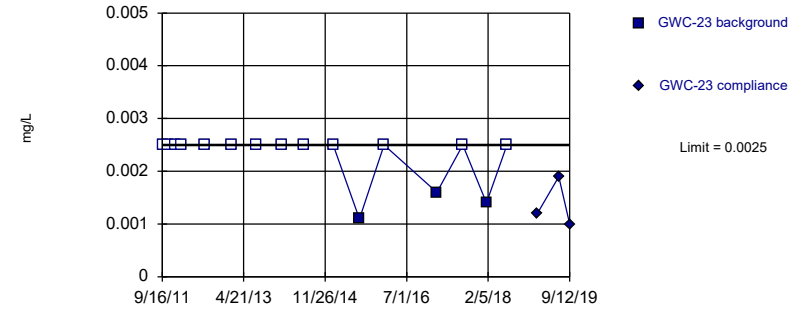


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006429, Std. Dev.=0.0009517, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8721, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

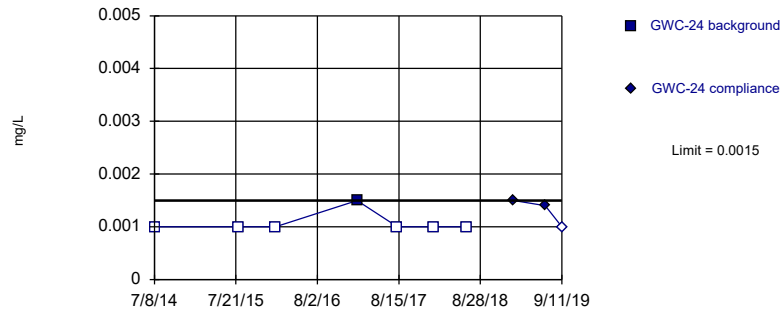


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

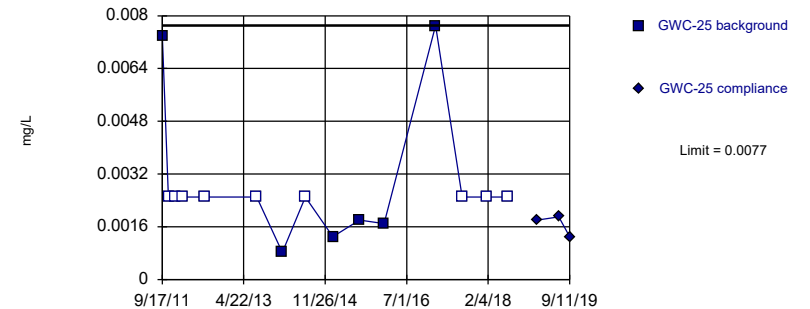


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

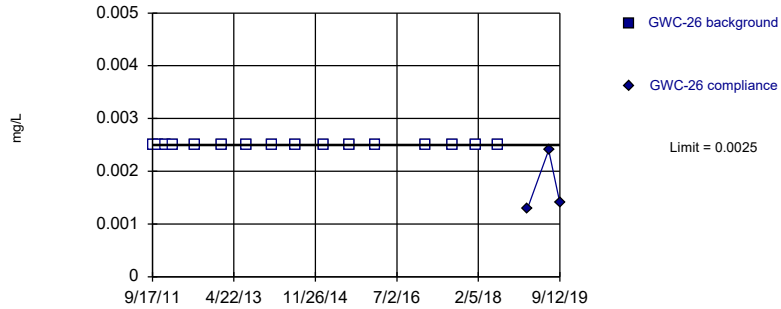


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

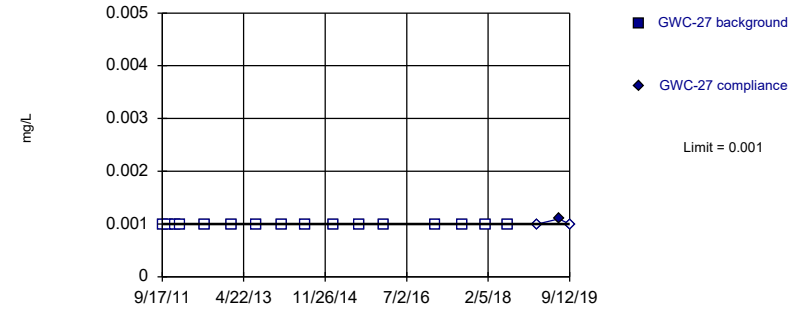


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

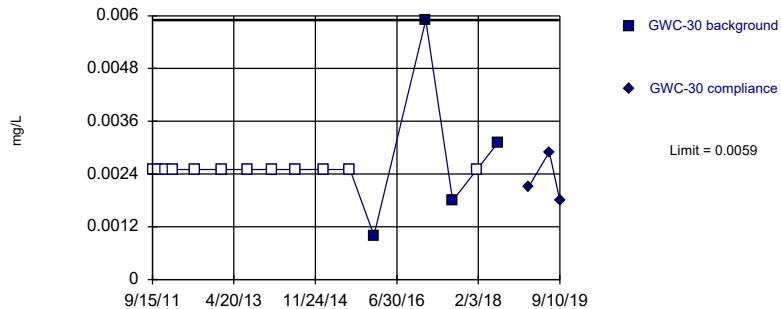


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

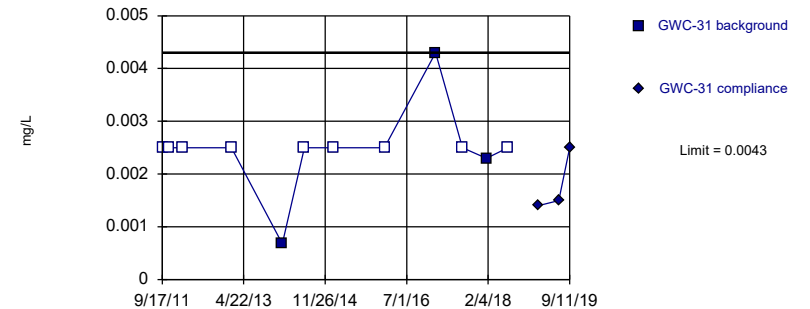


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

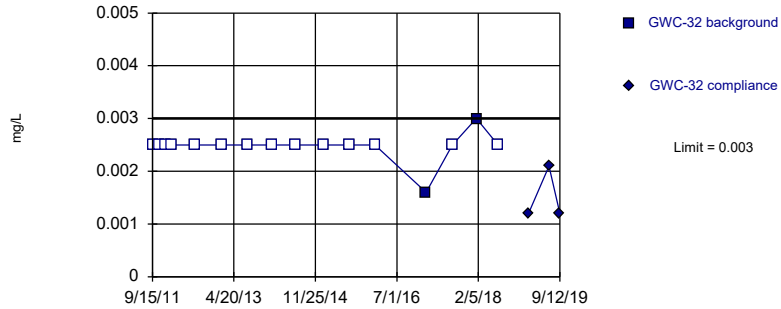


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

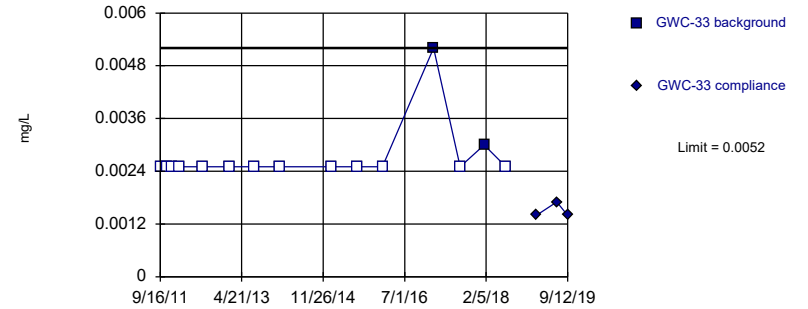


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

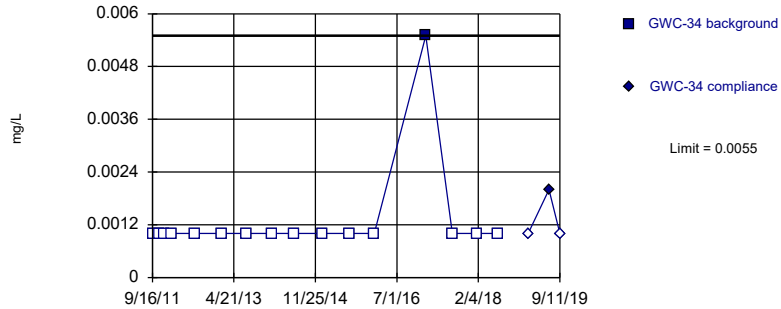


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

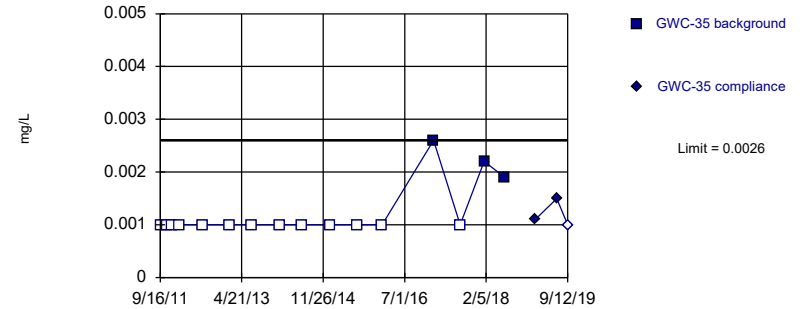


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

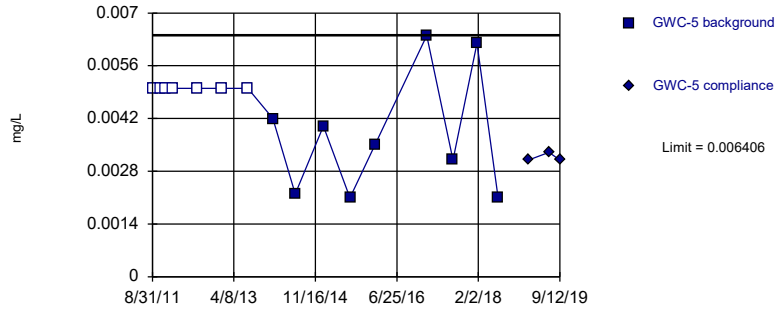


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

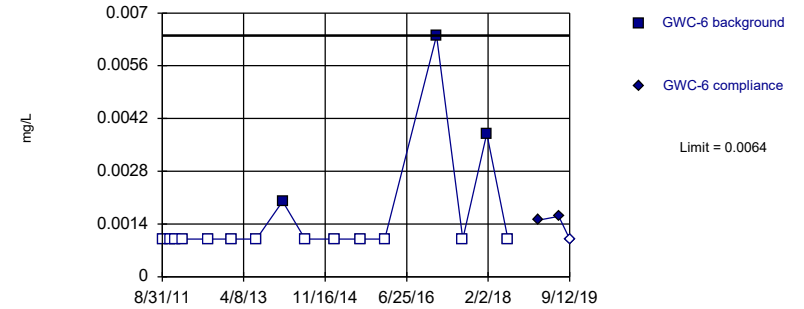


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003438, Std. Dev.=0.001338, n=16, 43.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8883, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

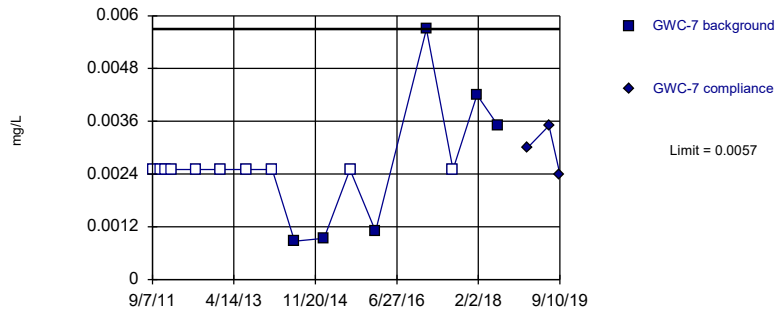


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

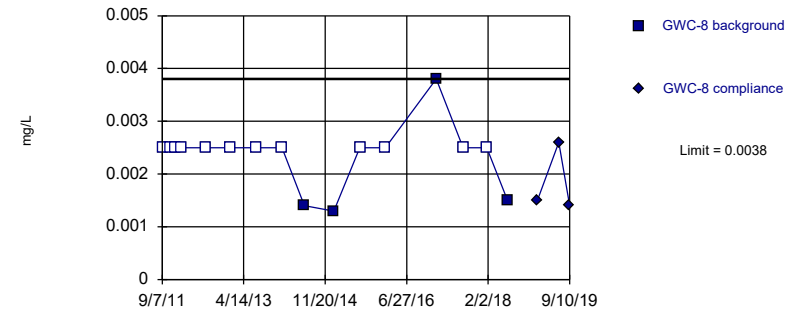


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

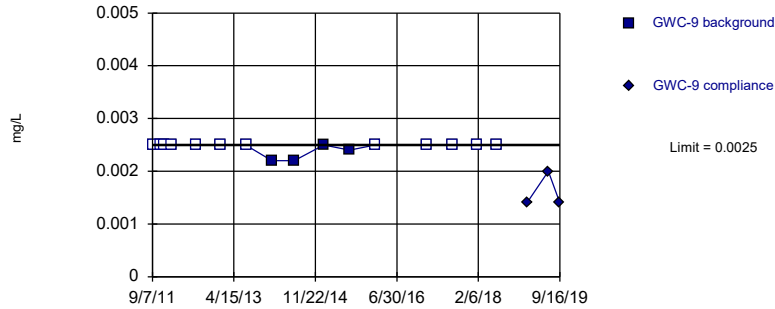


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

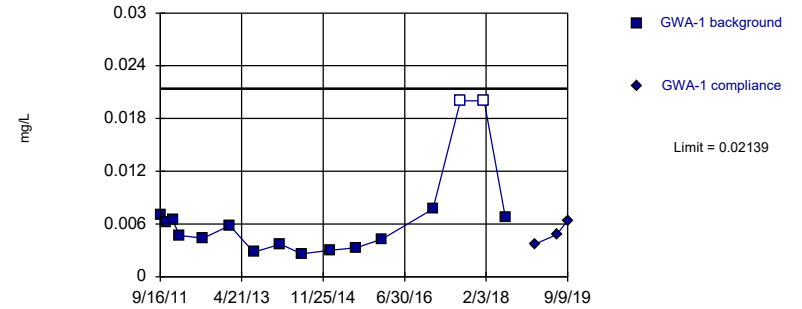


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

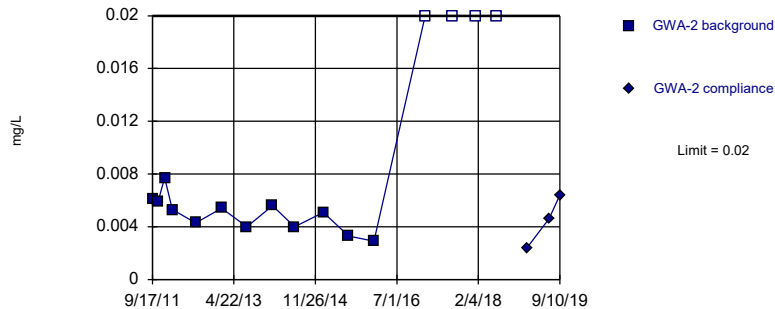


Background Data Summary (based on natural log transformation): Mean=-5.193, Std. Dev.=0.6076, n=16, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8888, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

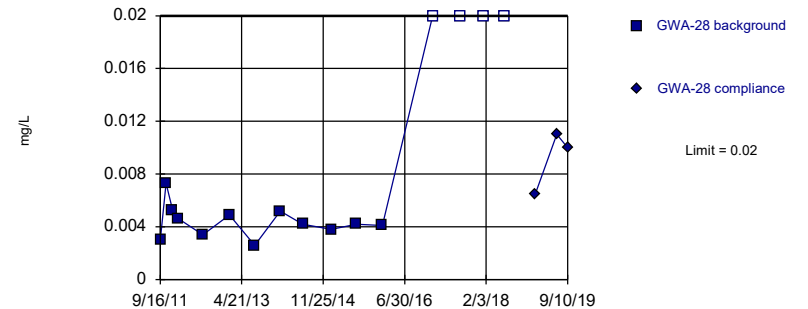


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

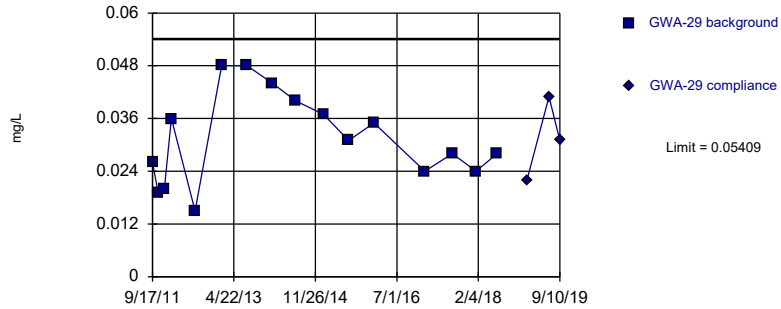


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:06 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



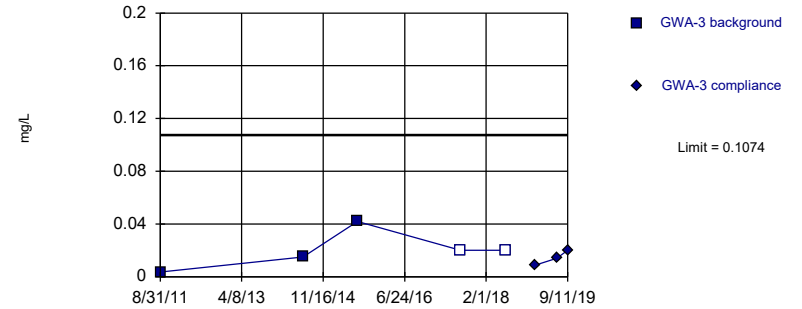
Background Data Summary: Mean=0.03144, Std. Dev.=0.01021, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9596, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



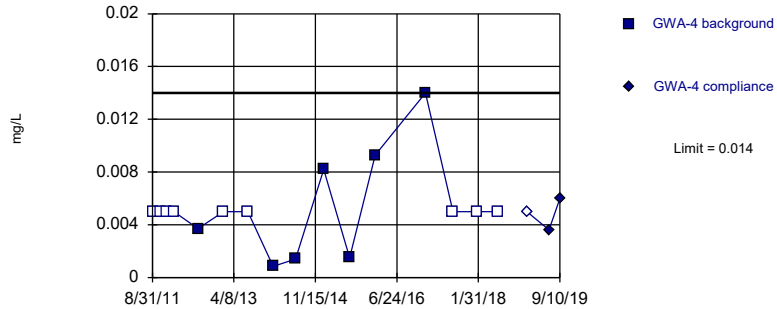
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.01588, Std. Dev.=0.014, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9176, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



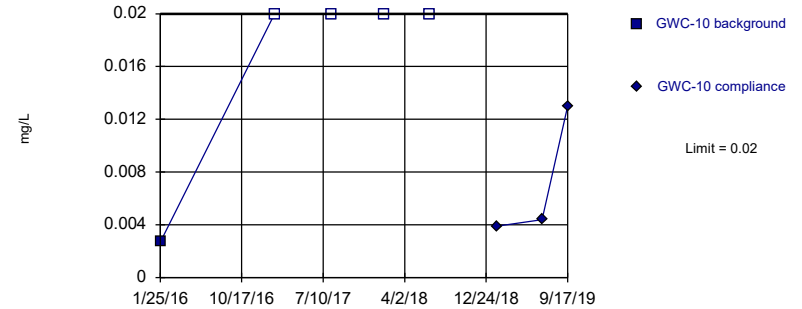
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

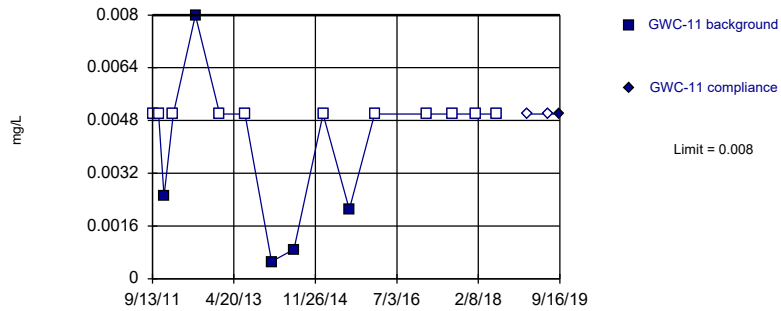


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

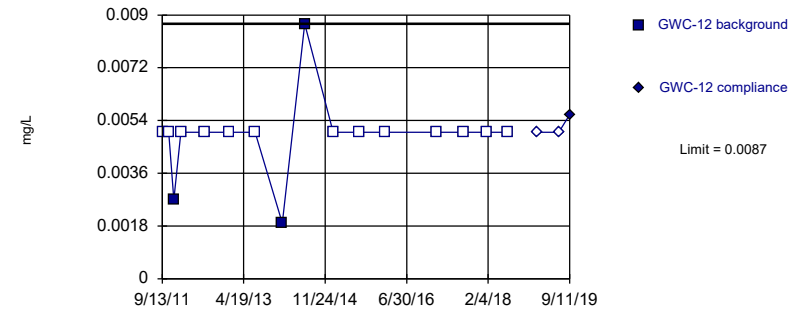


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

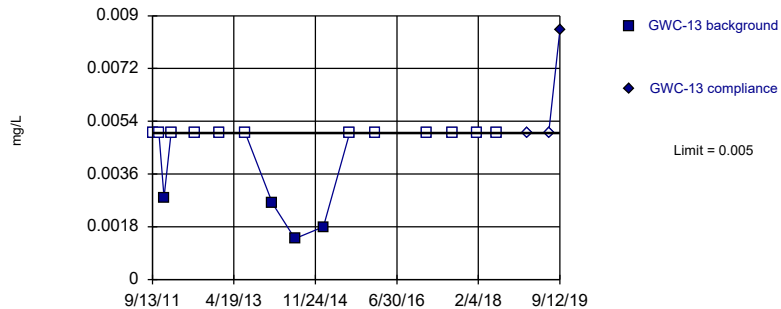


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

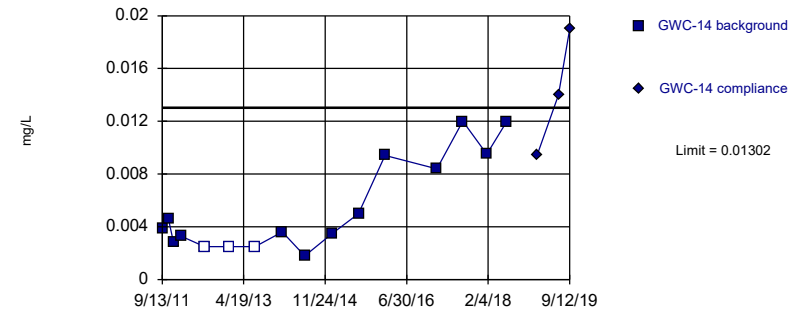


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

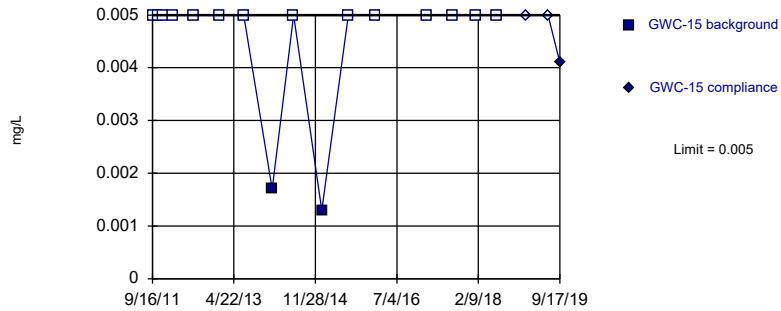


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.0662, Std. Dev.=0.02159, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8682, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

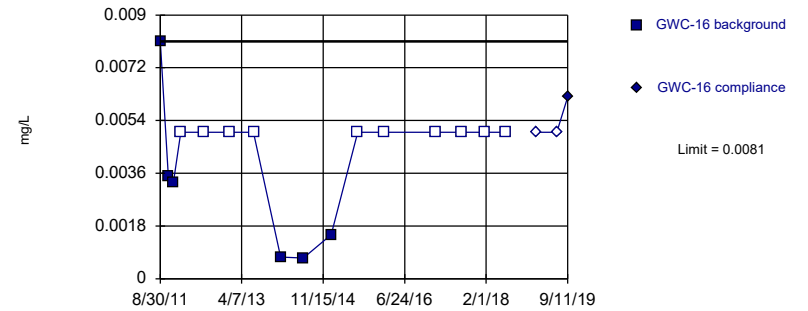


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

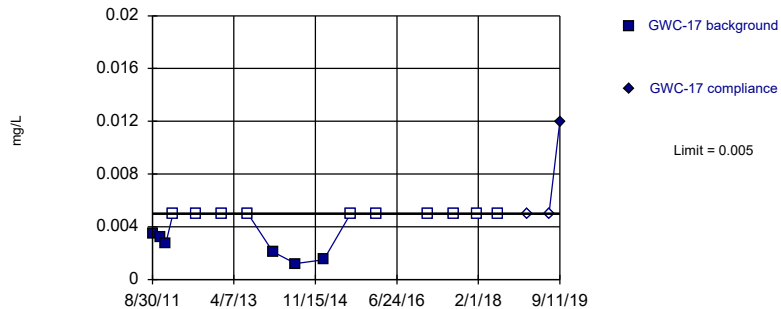


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

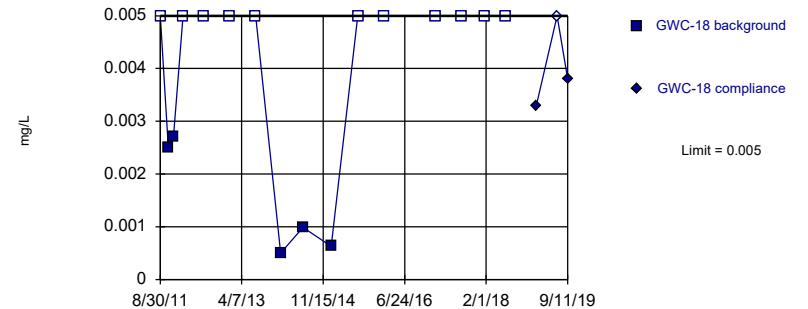


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric



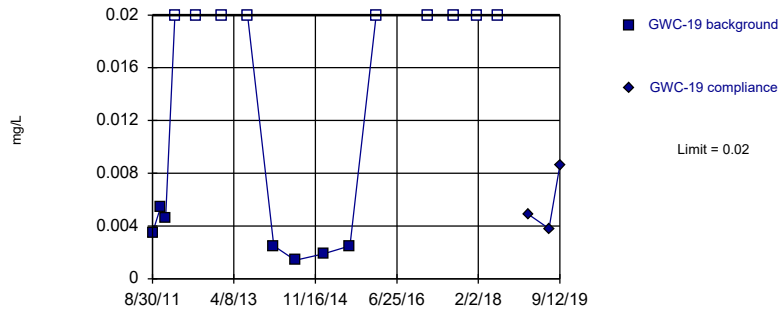
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill



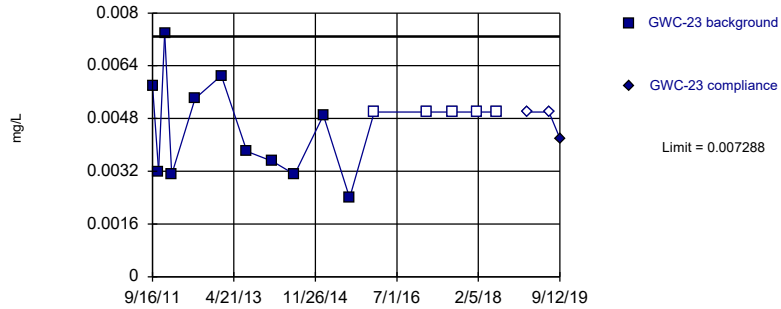
Within Limit

Prediction Limit  
Intrawell Non-parametric



Within Limit

Prediction Limit  
Intrawell Parametric

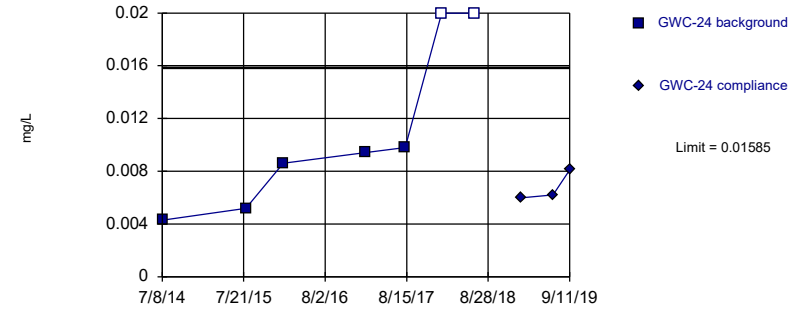


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00404, Std. Dev.=0.001464, n=16, 31.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9409, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

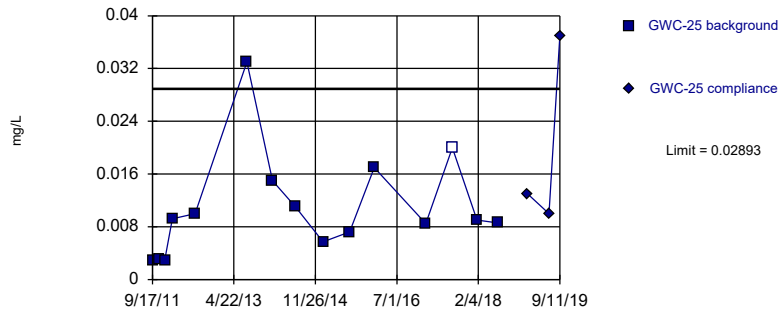


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00746, Std. Dev.=0.002264, n=7, 28.57% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8331, critical = 0.73. Kappa = 3.706 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

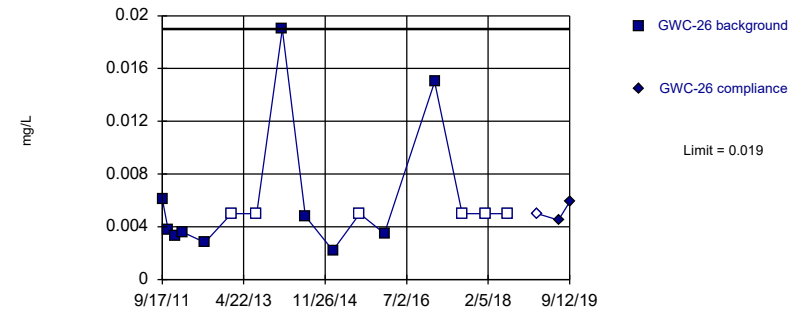


Background Data Summary: Mean=0.01086, Std. Dev.=0.007912, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8392, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

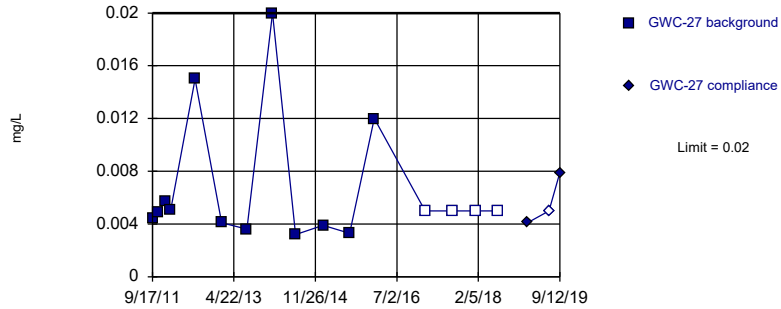


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

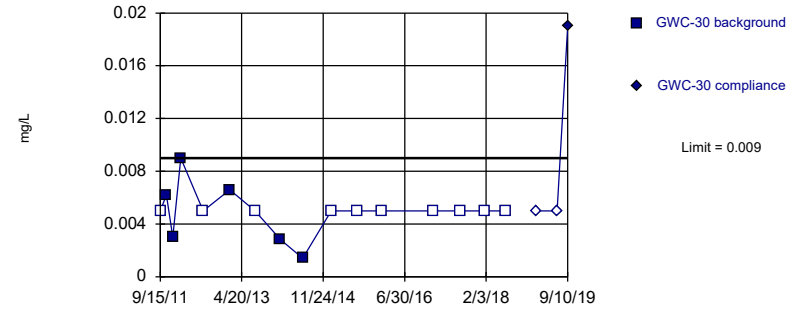


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

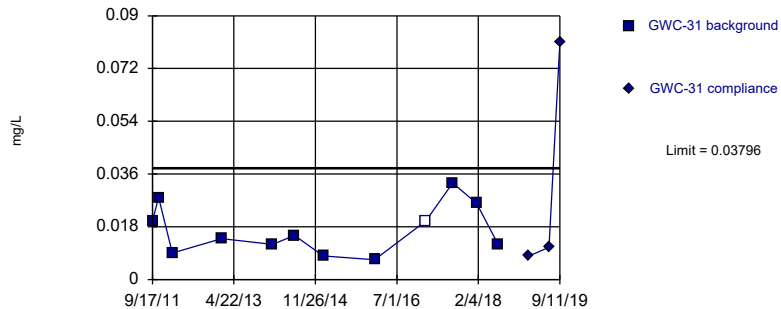


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

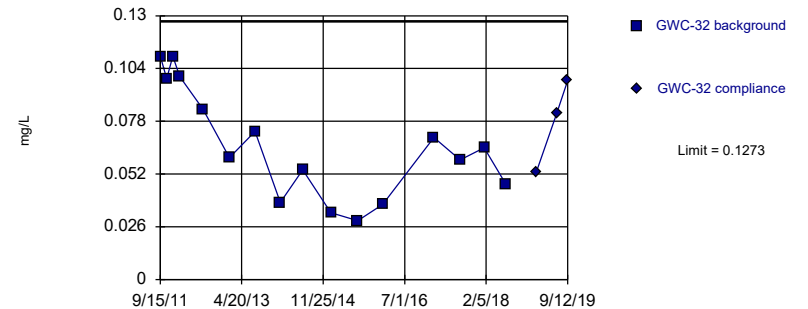


Background Data Summary: Mean=0.01699, Std. Dev.=0.008457, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

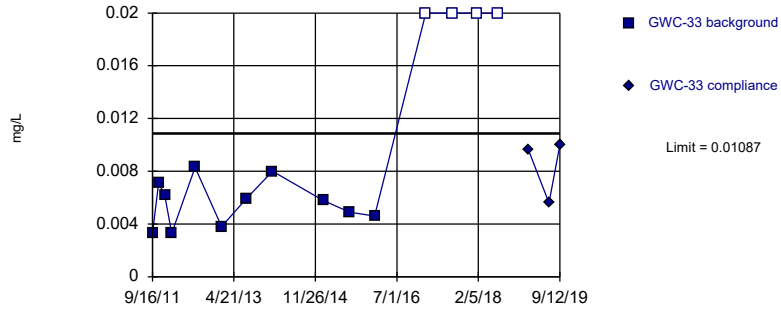


Background Data Summary: Mean=0.06675, Std. Dev.=0.02729, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9315, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

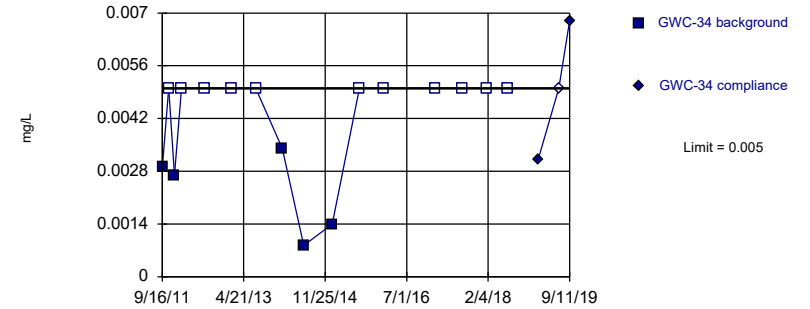


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.239, Std. Dev.=0.3143, n=15, 26.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8617, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

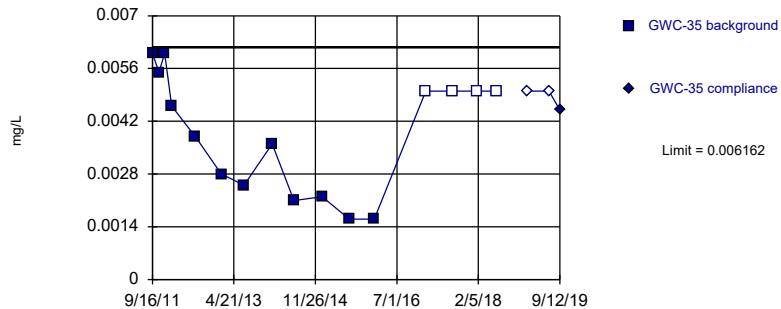


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:07 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

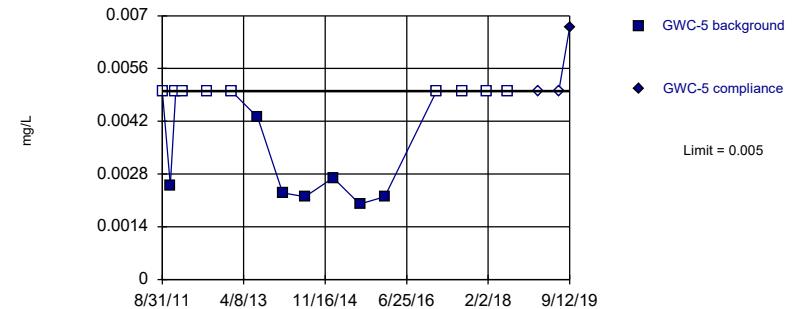


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003142, Std. Dev.=0.001361, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9024, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:08 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

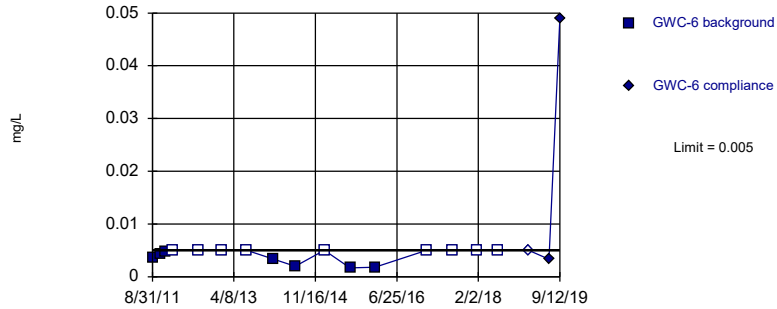


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:08 AM View: PL's - Intrawell  
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit  
 Intrawell Non-parametric

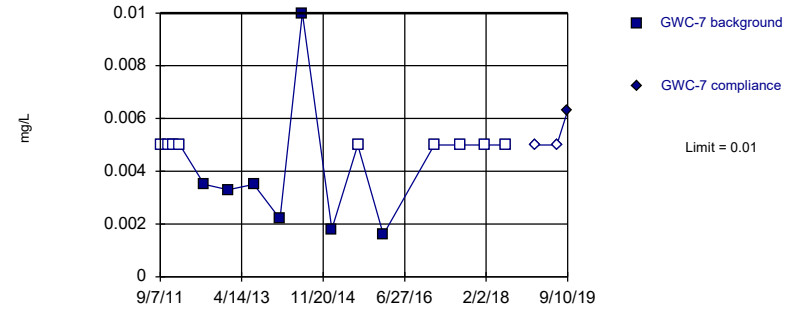


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:08 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

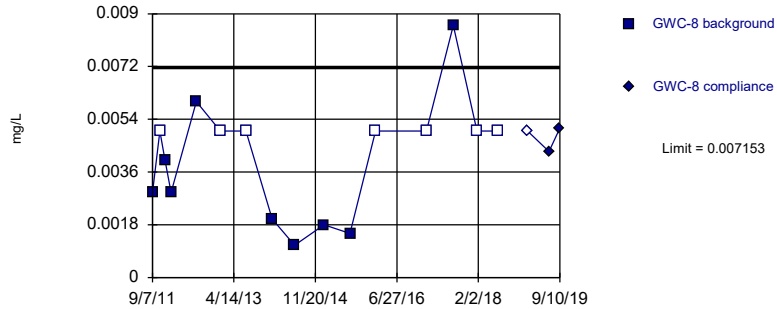


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 1/17/2020 10:08 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

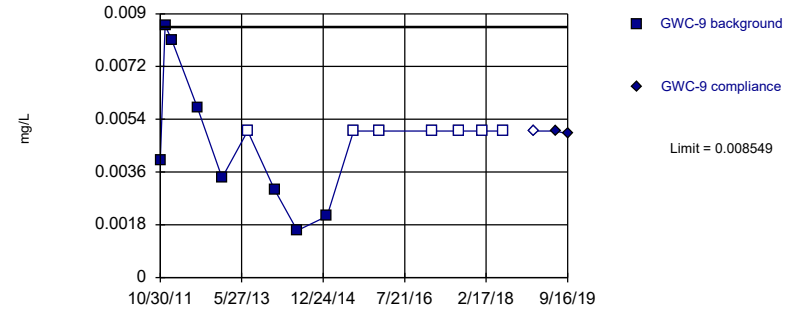


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002775, Std. Dev.=0.001974, n=16, 43.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9044, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 1/17/2020 10:08 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

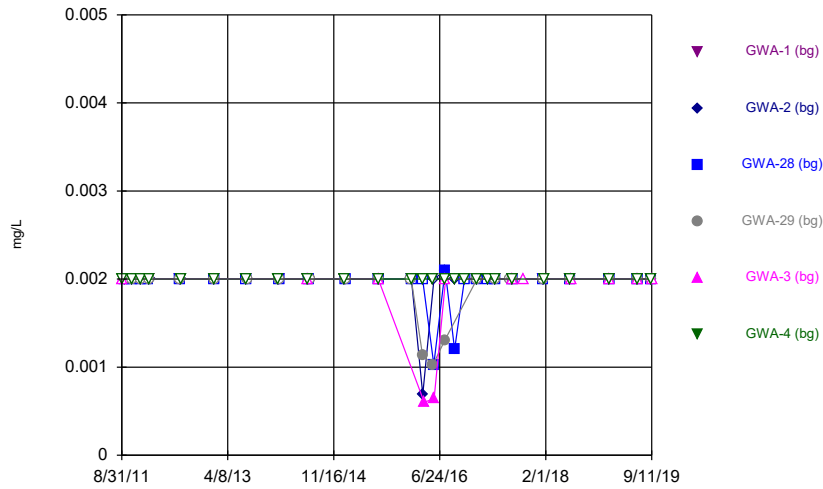
Prediction Limit  
 Intrawell Parametric



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.

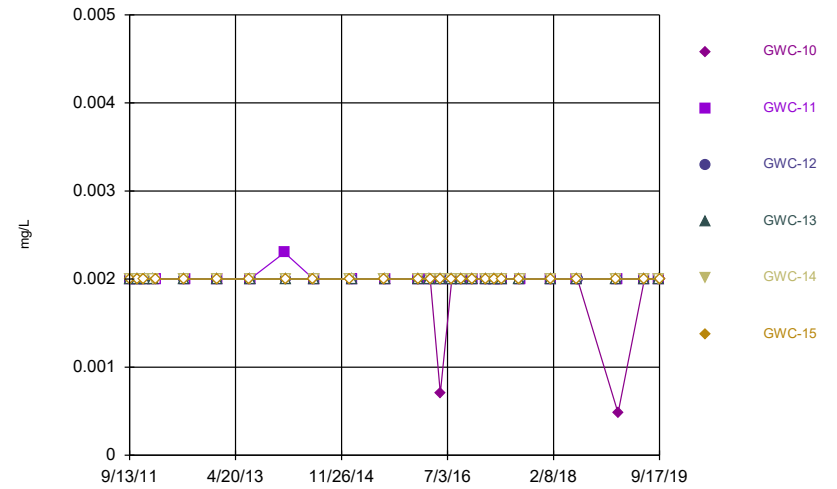
Constituent: Zinc Analysis Run 1/17/2020 10:08 AM View: PL's - Intrawell  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

### Antimony



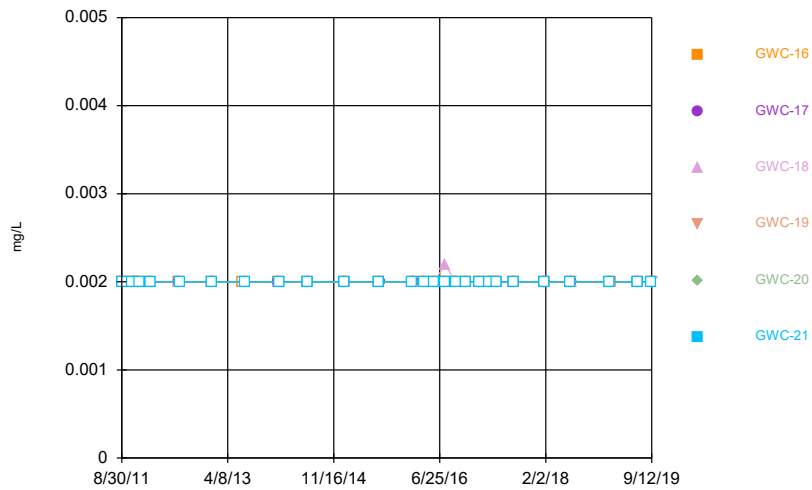
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Antimony



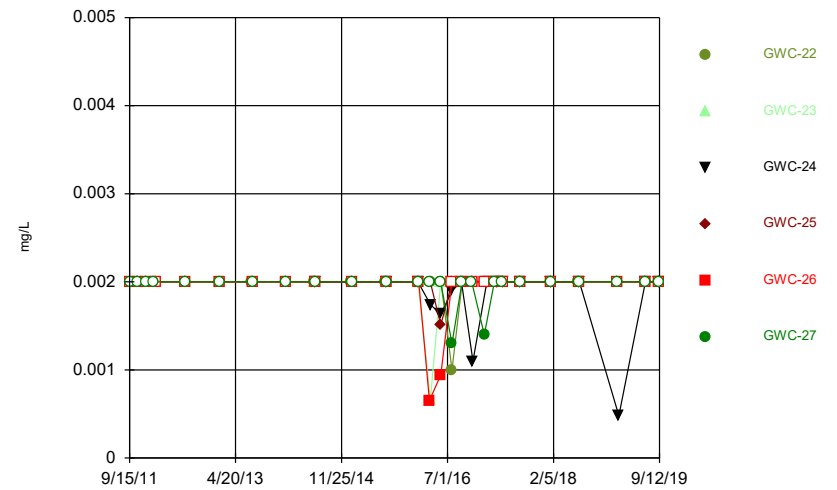
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Antimony



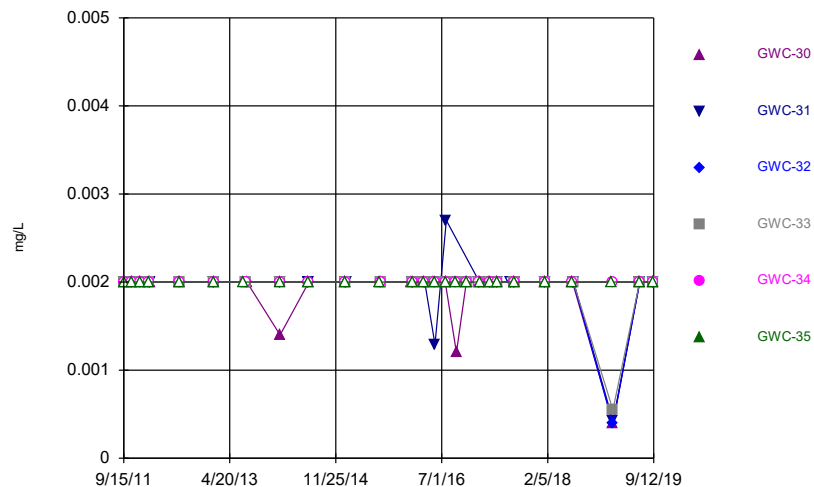
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Antimony



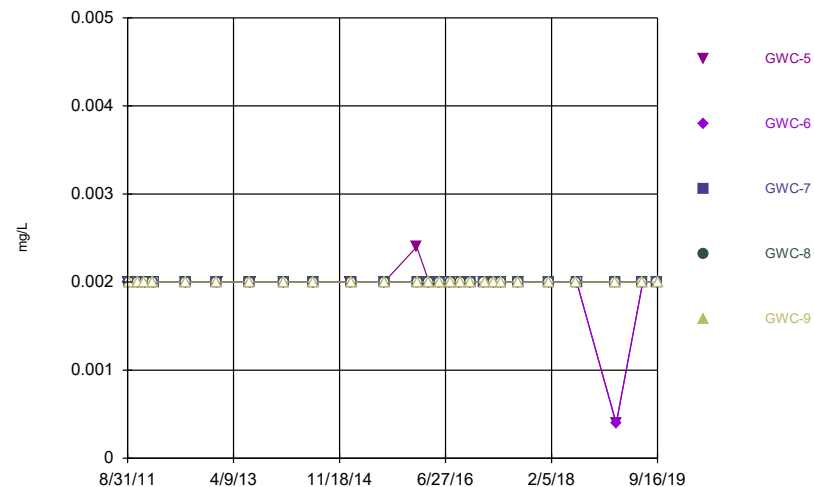
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Antimony



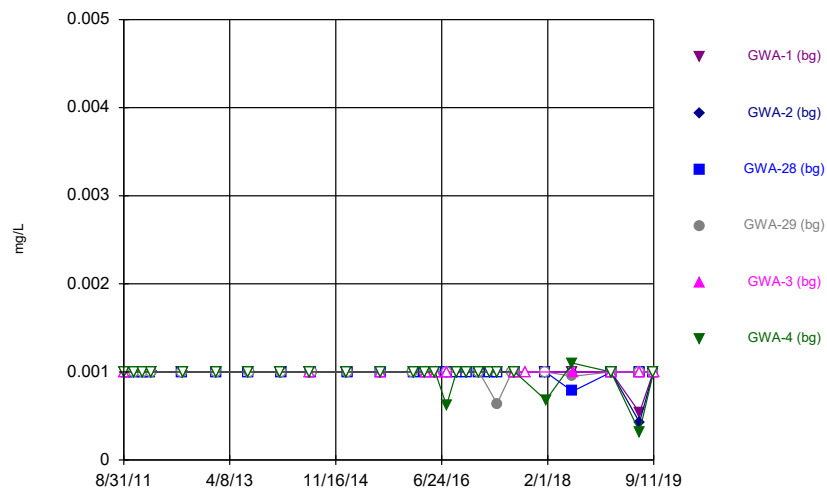
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### Antimony



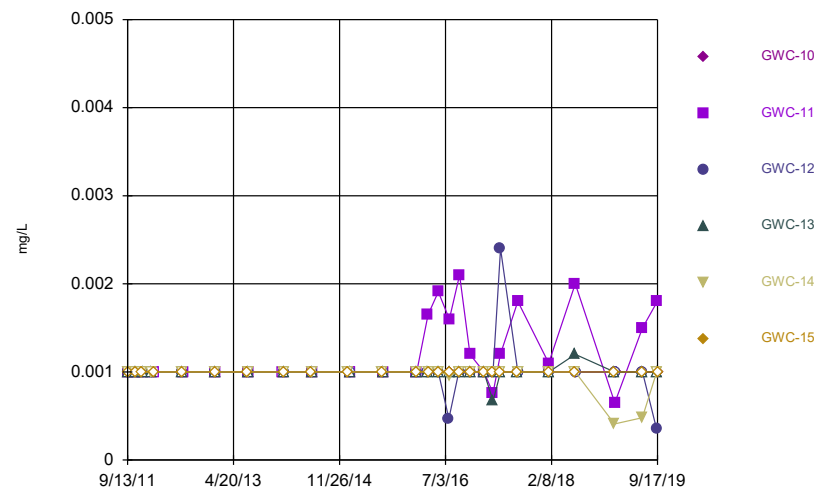
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Arsenic



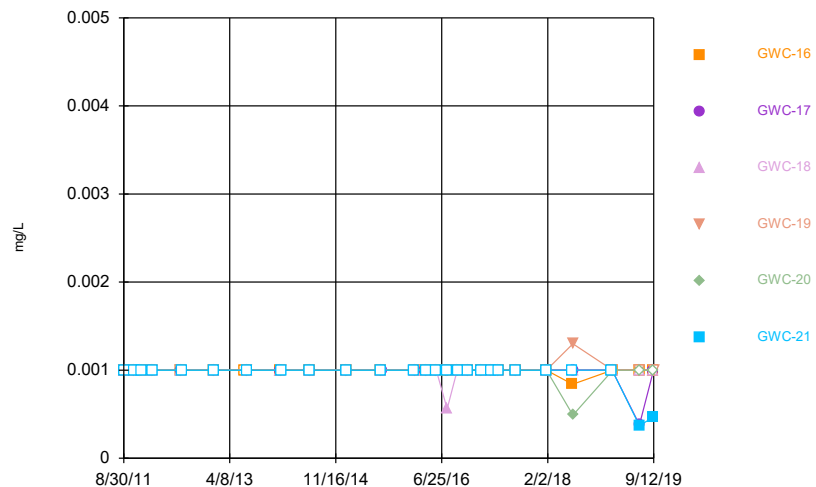
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Arsenic



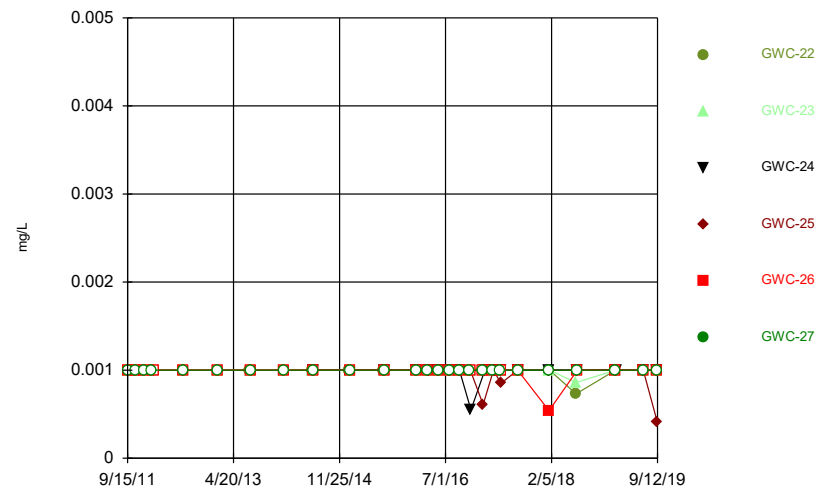
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Arsenic



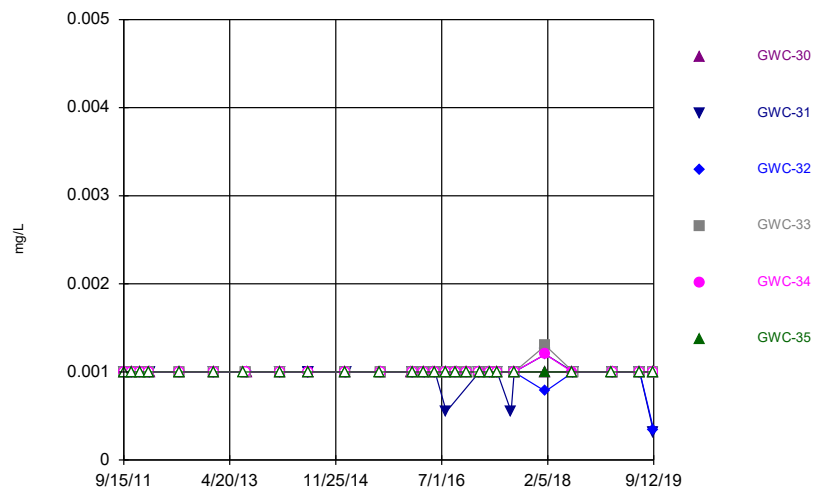
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### Arsenic



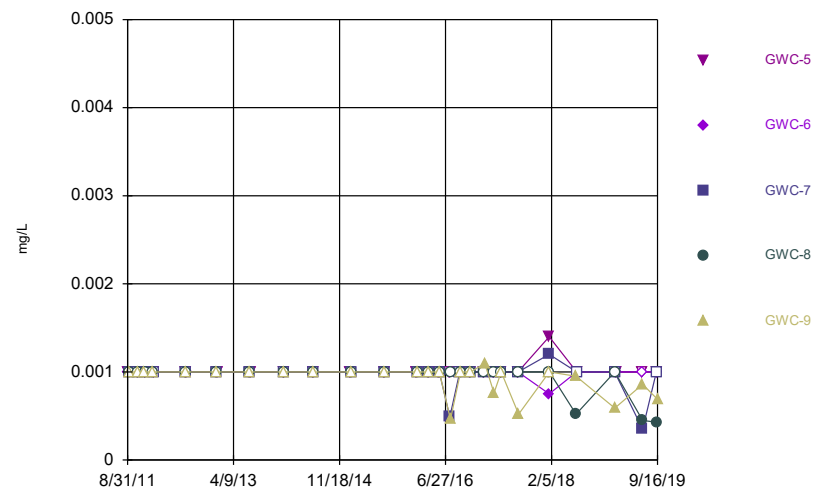
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Arsenic



Time Series Analysis Run 11/13/2019 1:41 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

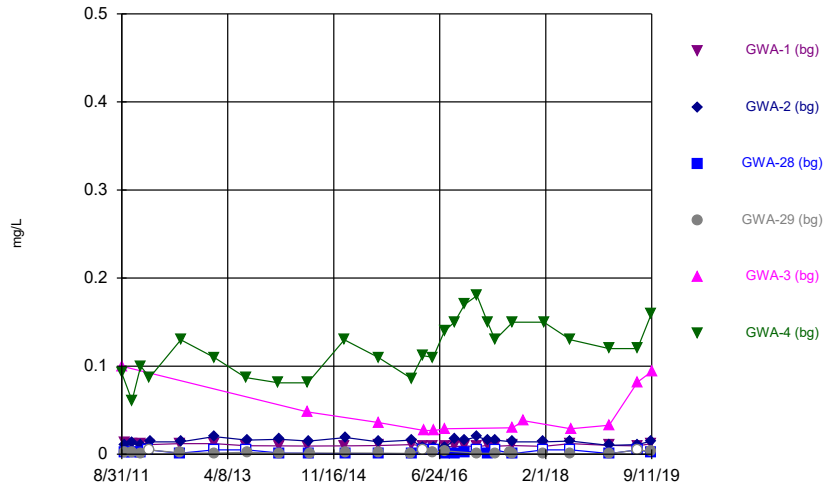
### Arsenic



Time Series Analysis Run 11/13/2019 1:42 PM View: Time Series  
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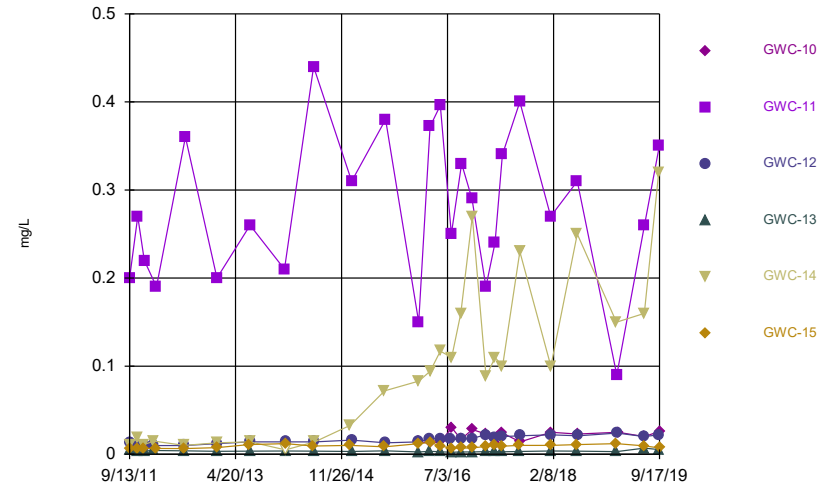


### Barium



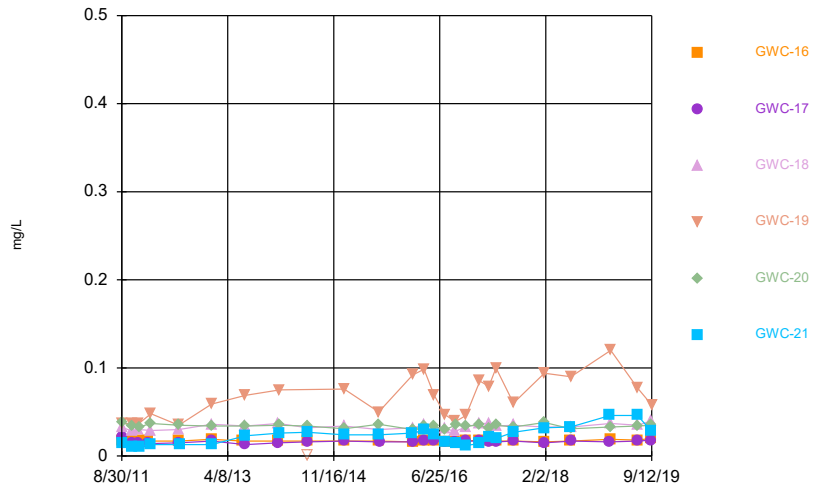
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### Barium



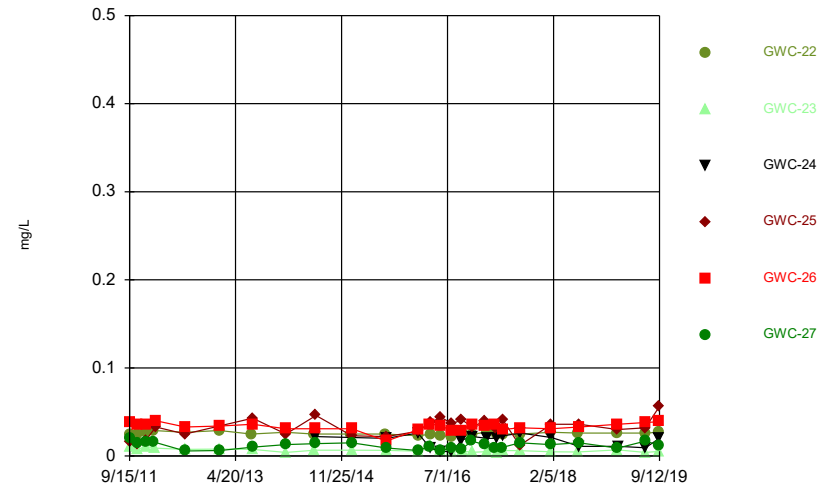
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### Barium



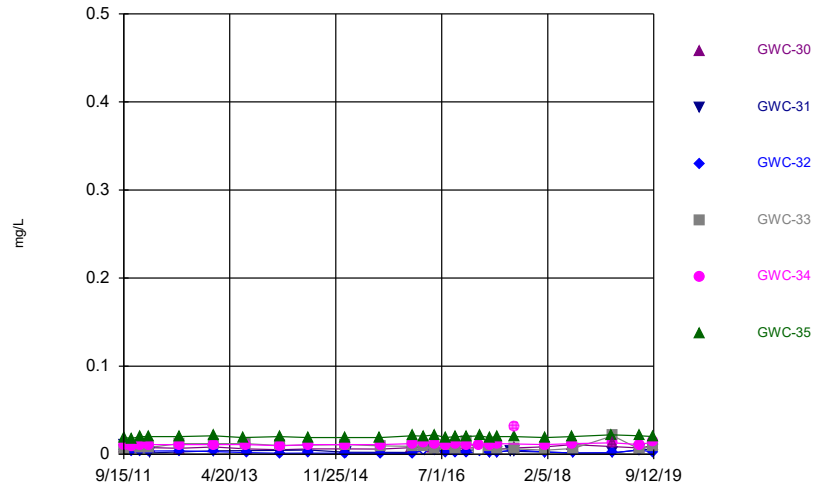
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### Barium



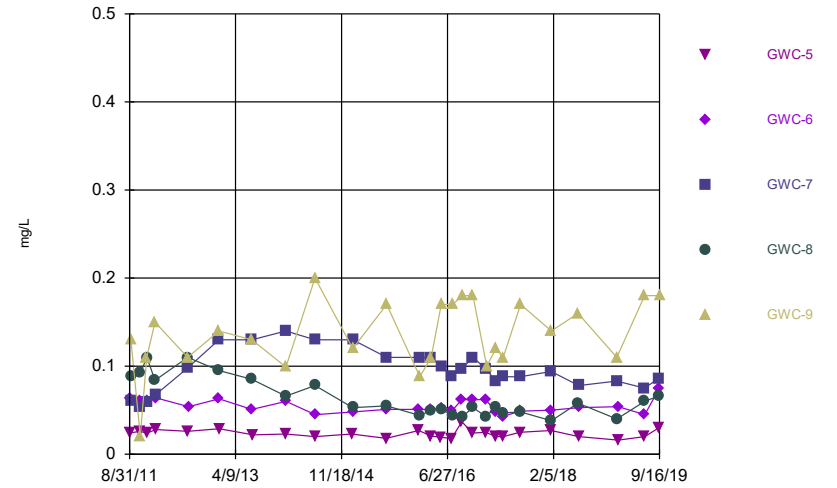
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Barium



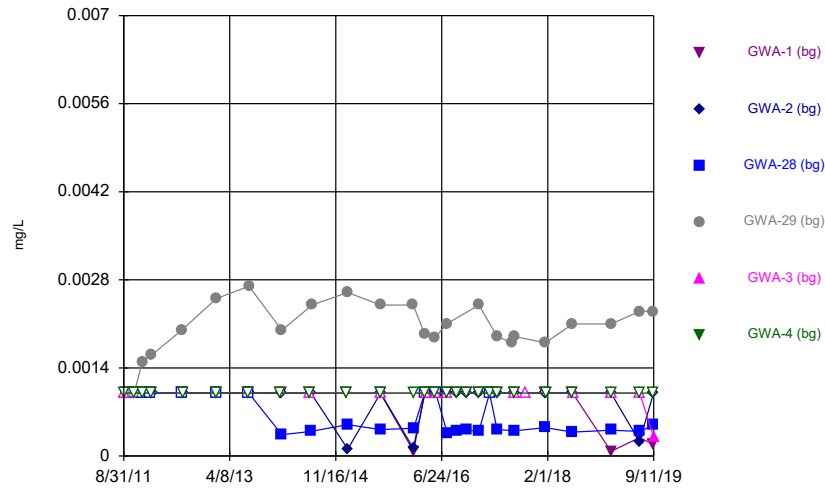
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Barium



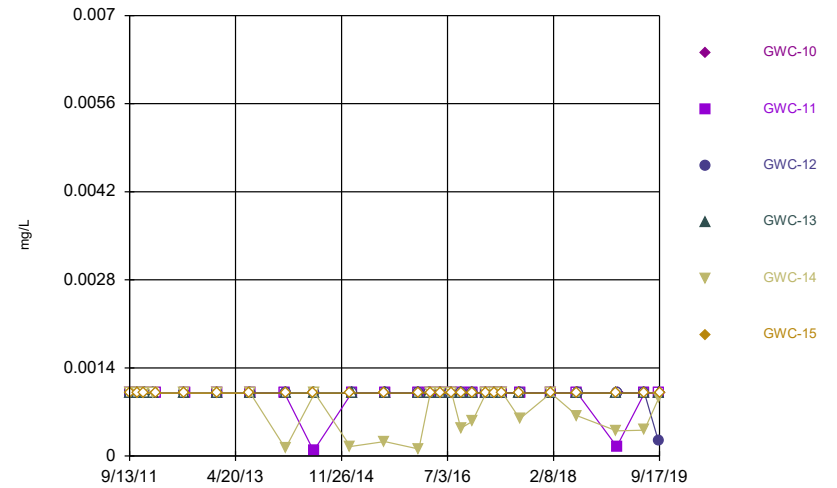
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium



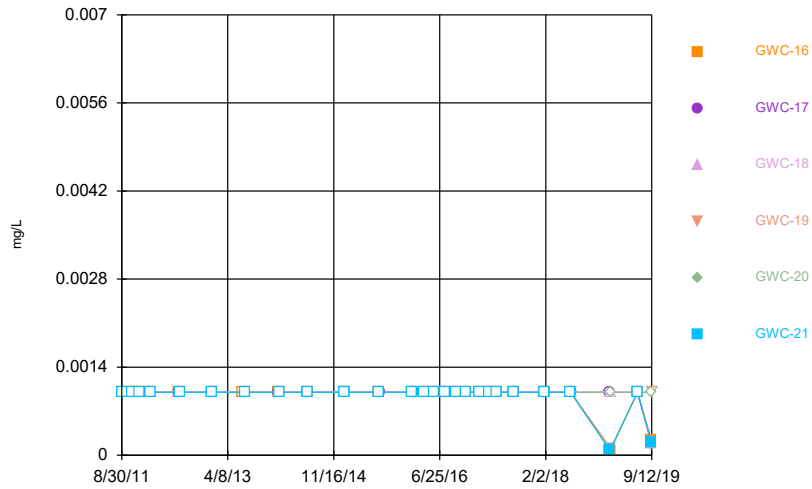
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium



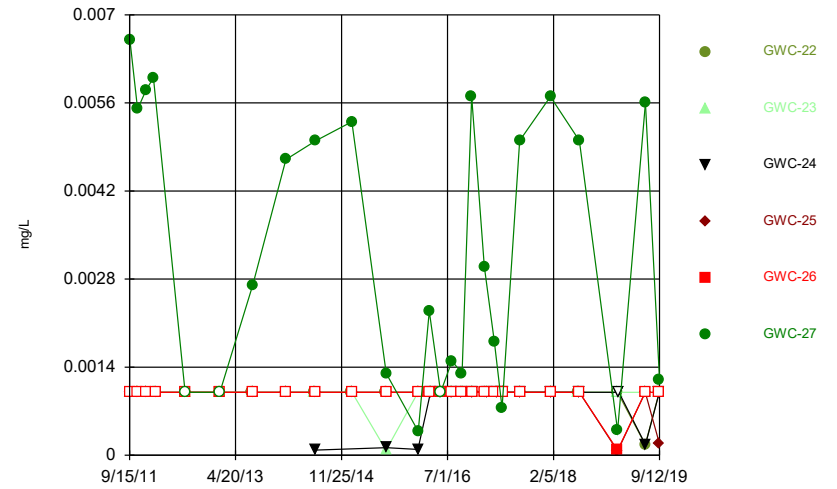
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium



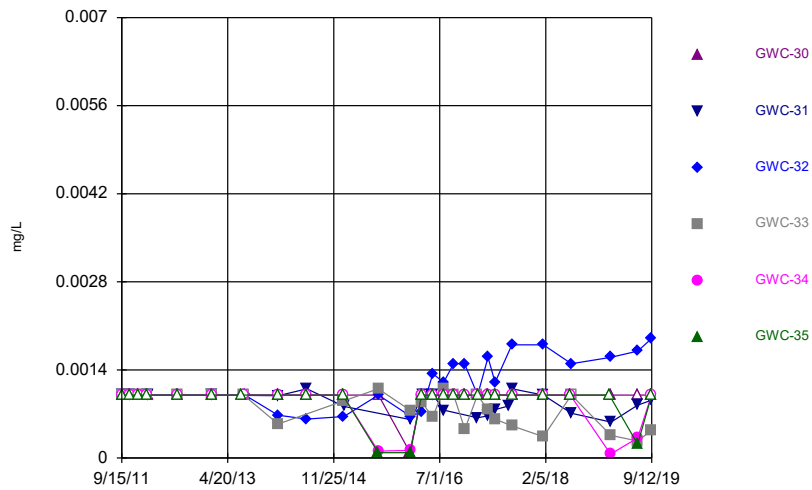
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium



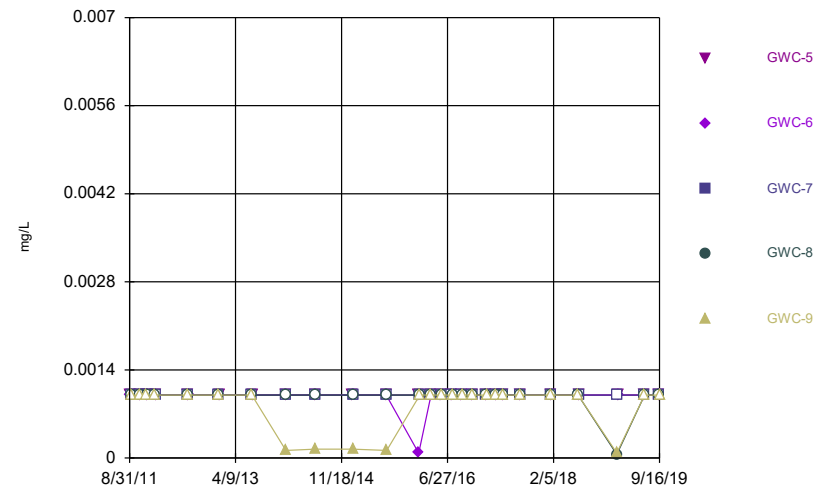
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium



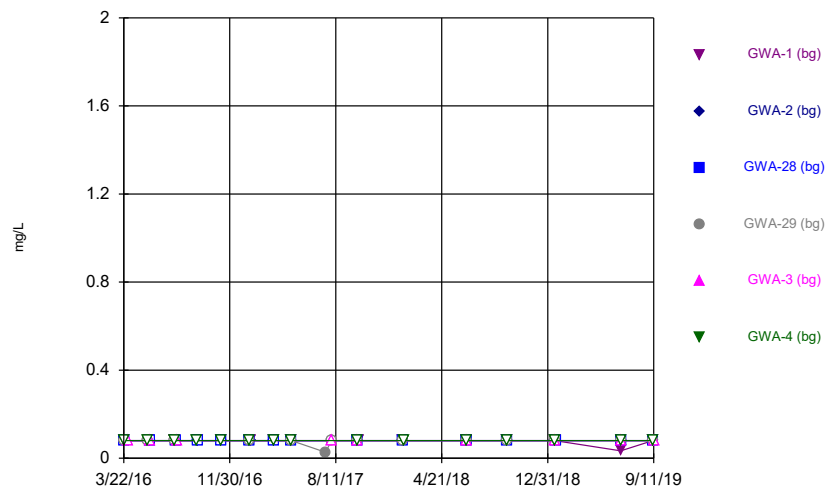
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Beryllium



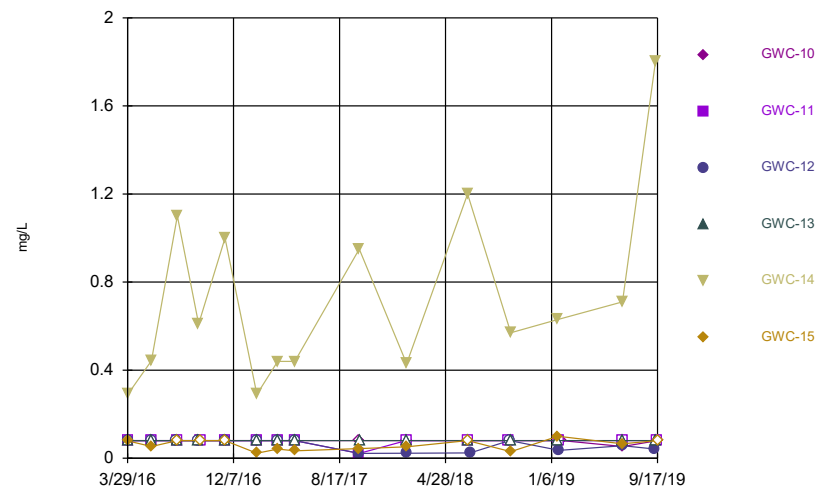
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Boron



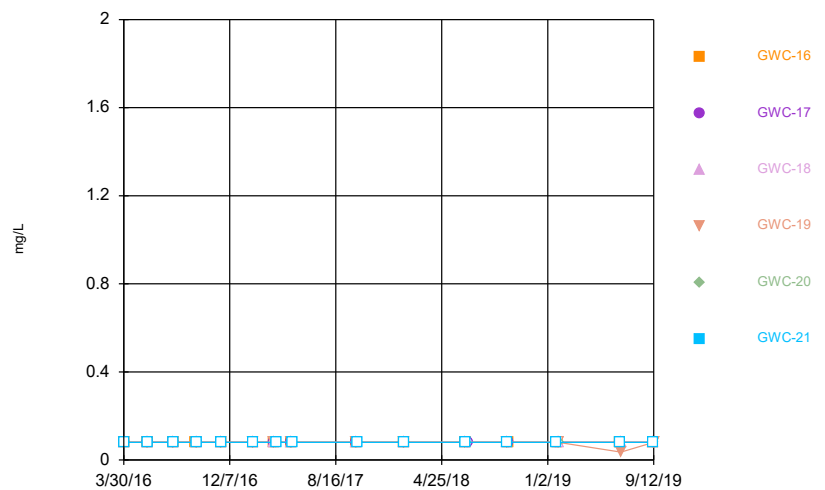
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Boron



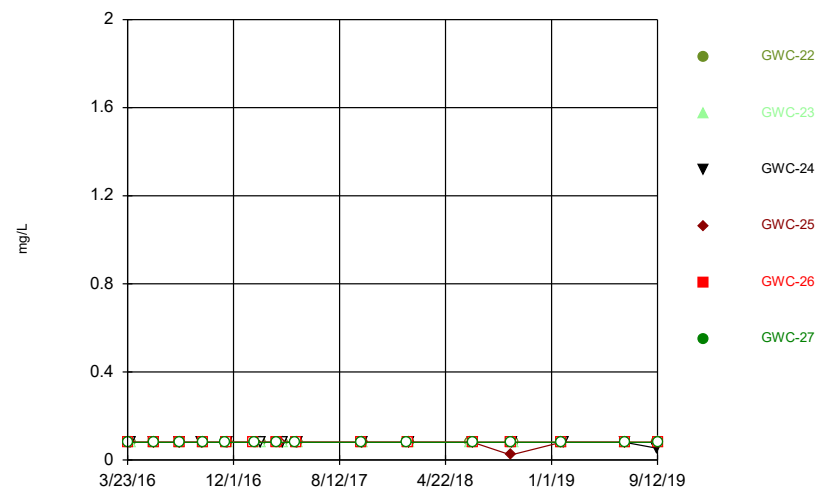
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Boron



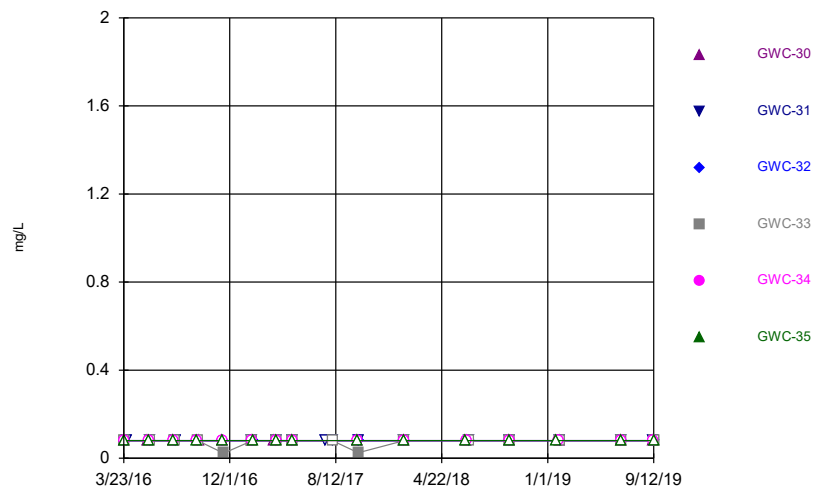
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Boron



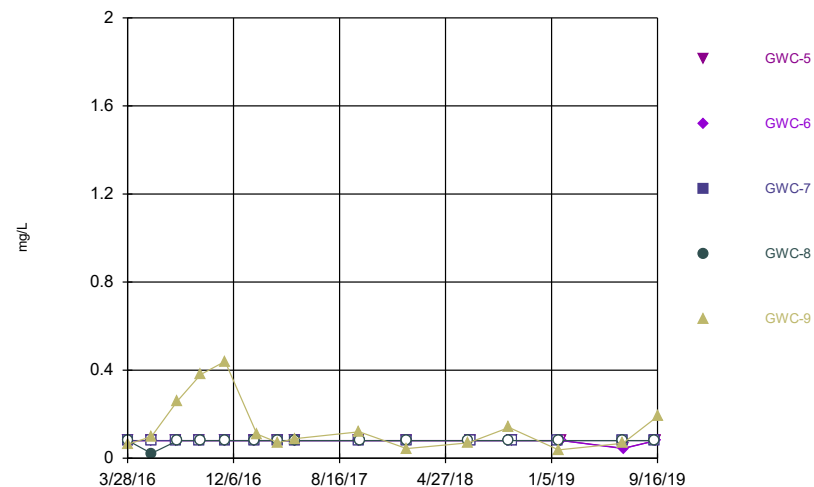
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Plant Wansley Client: Southern Company Data: Wansley Landfill

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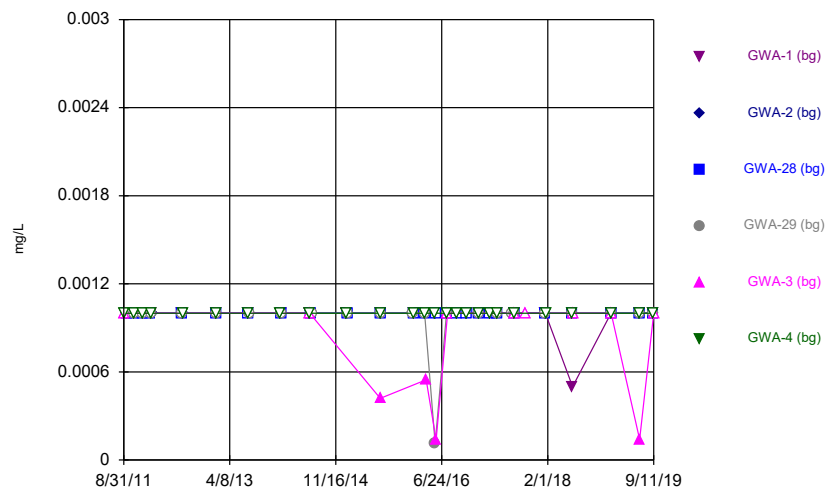
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Boron



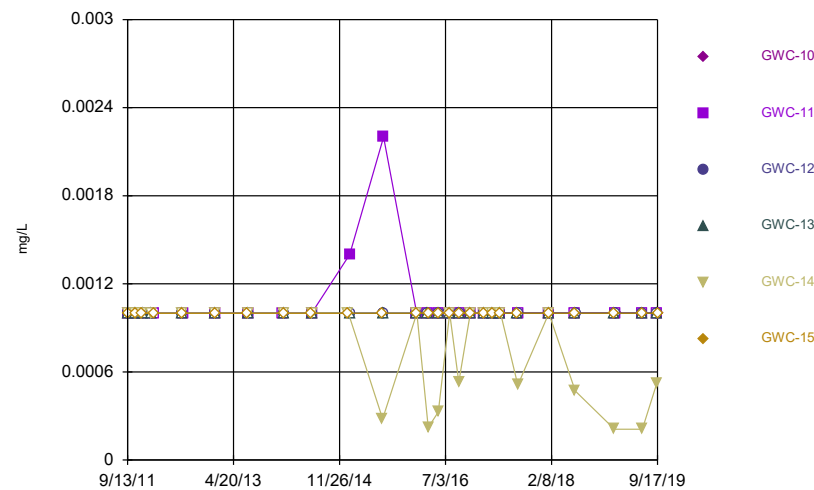
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Cadmium



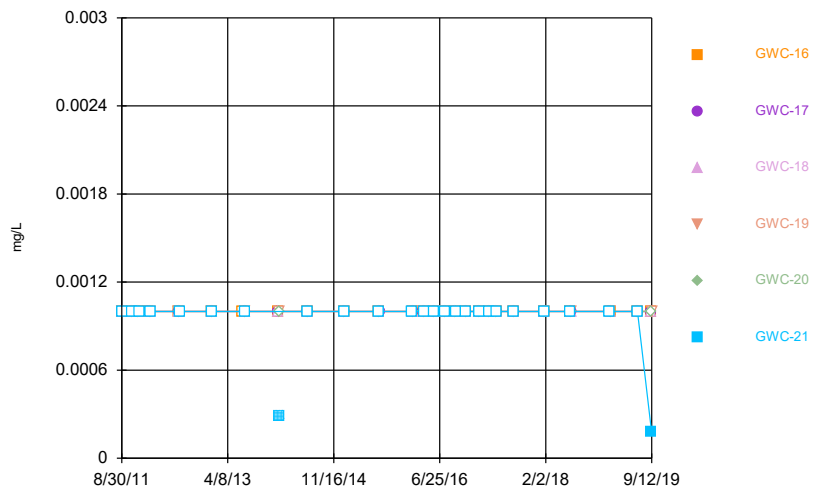
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Cadmium



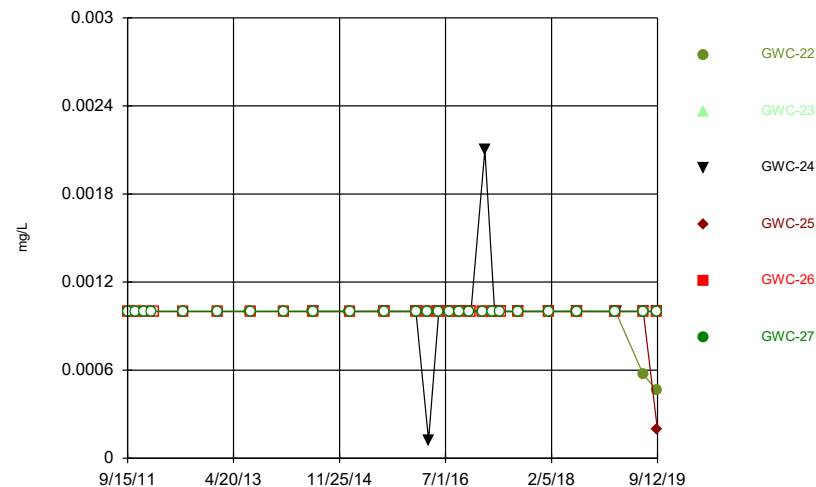
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Cadmium



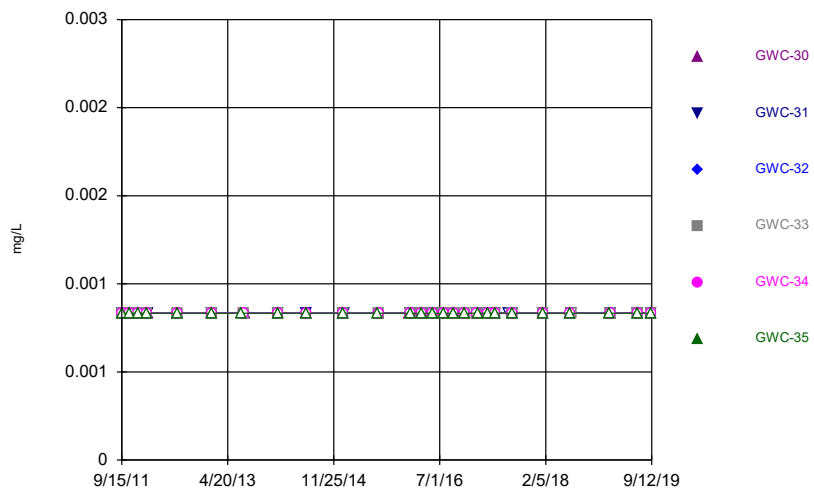
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Cadmium



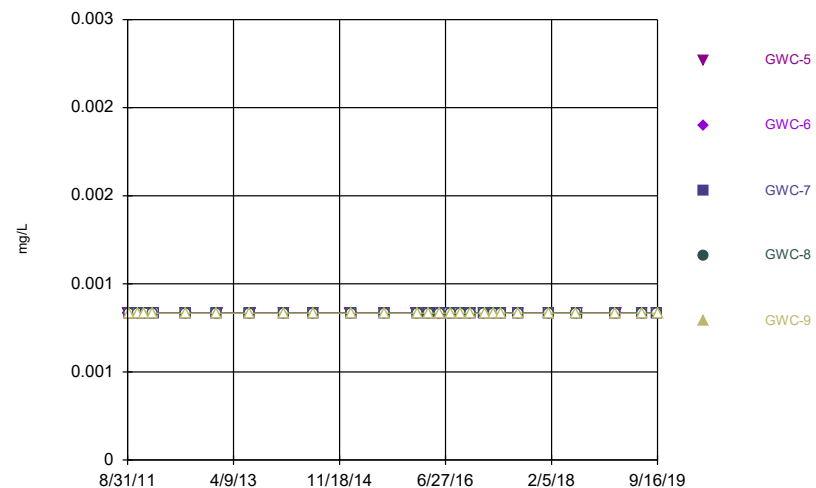
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Cadmium



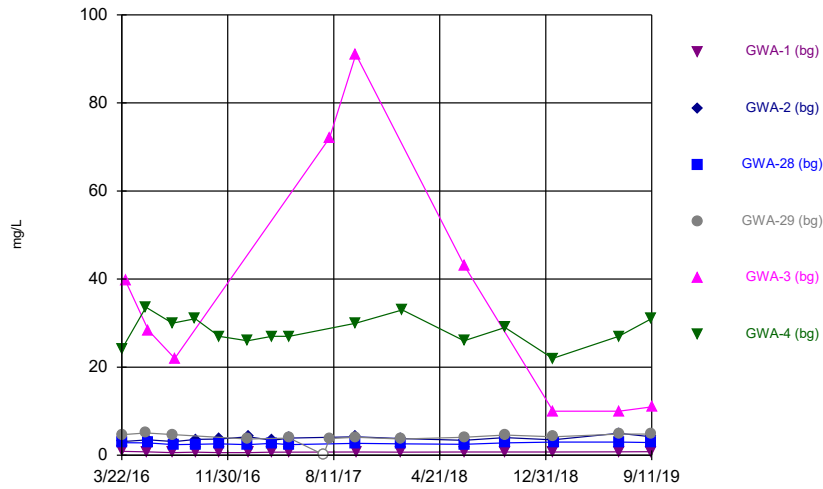
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Cadmium



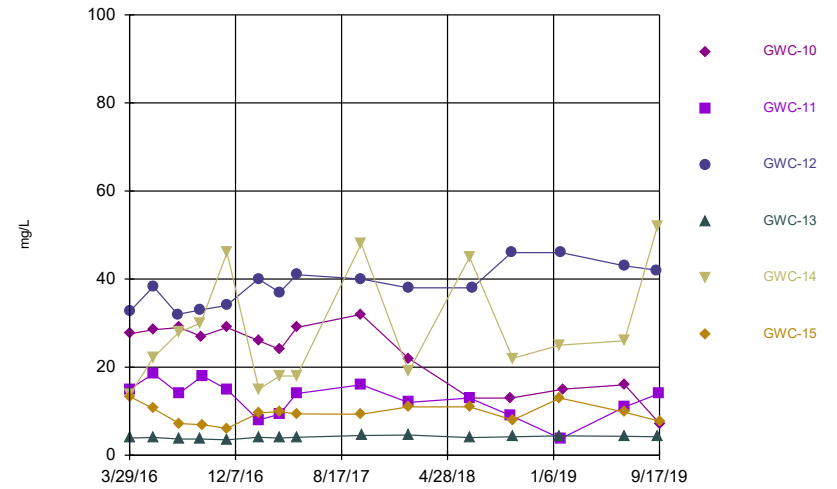
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Calcium



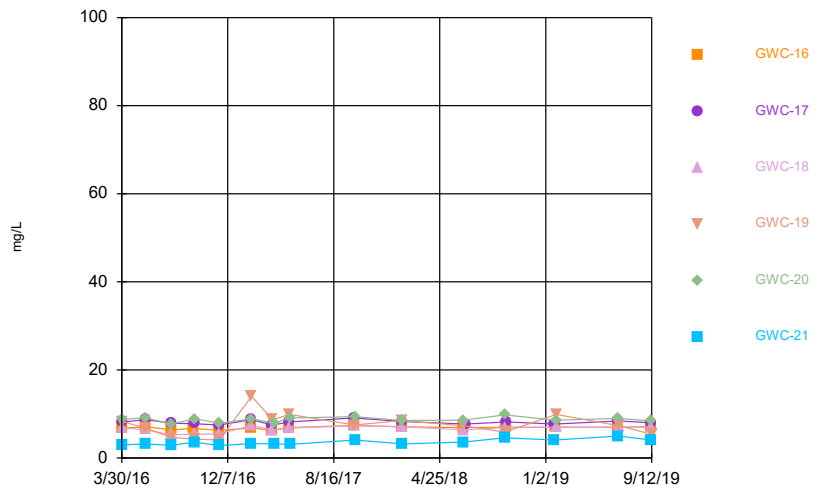
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### Calcium



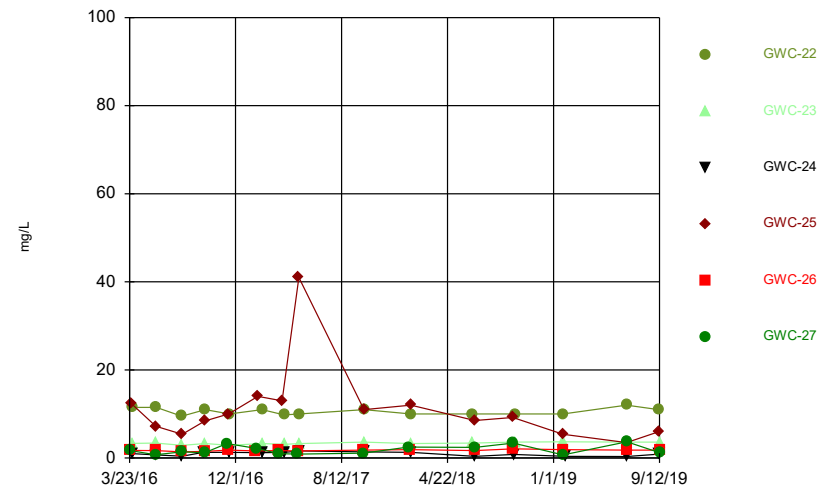
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### Calcium



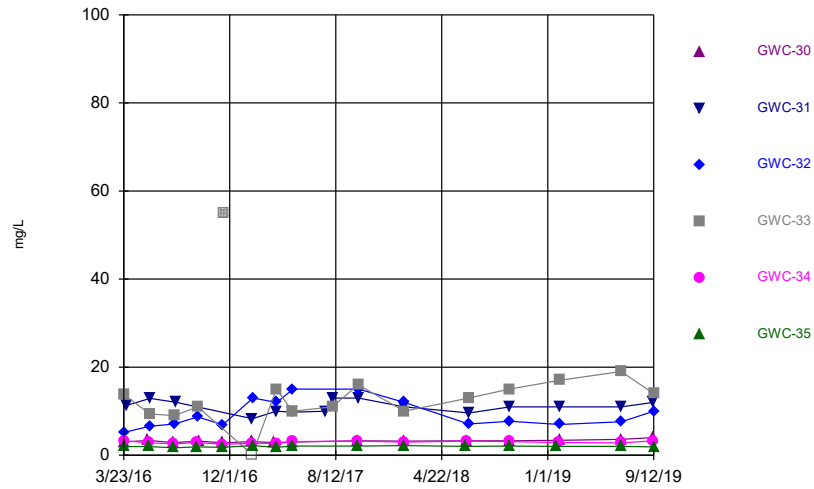
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### Calcium



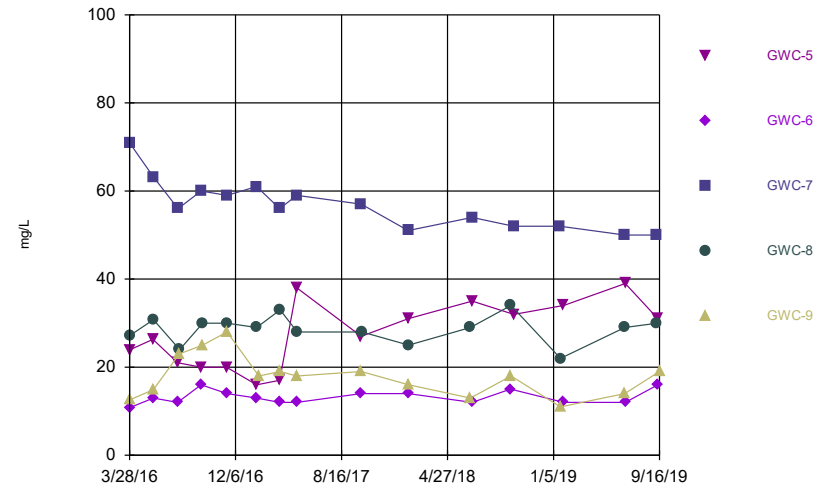
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### Calcium



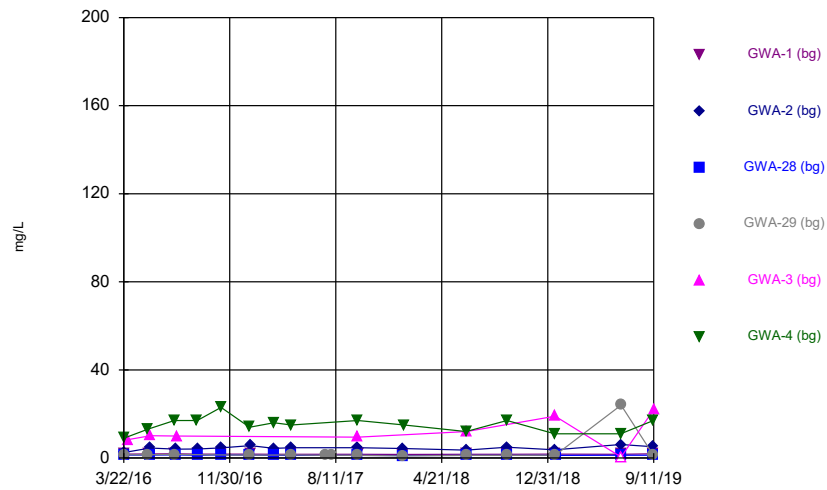
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Calcium



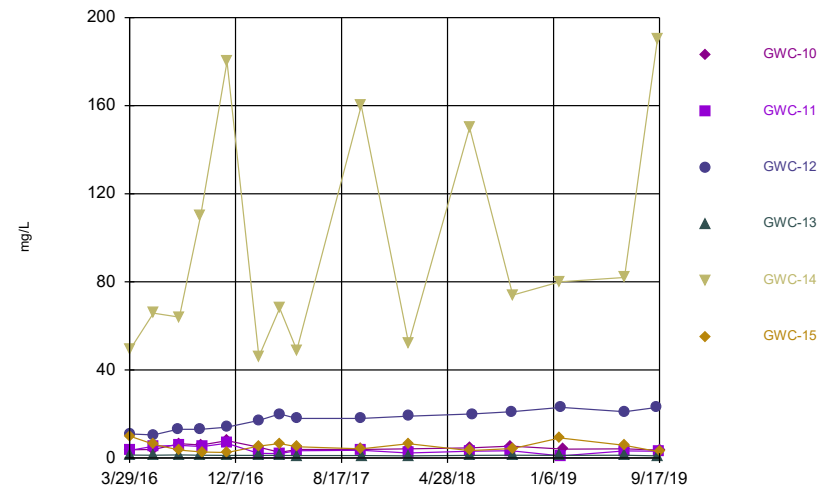
Time Series Analysis Run 11/13/2019 1:43 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



Time Series Analysis Run 11/13/2019 1:43 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

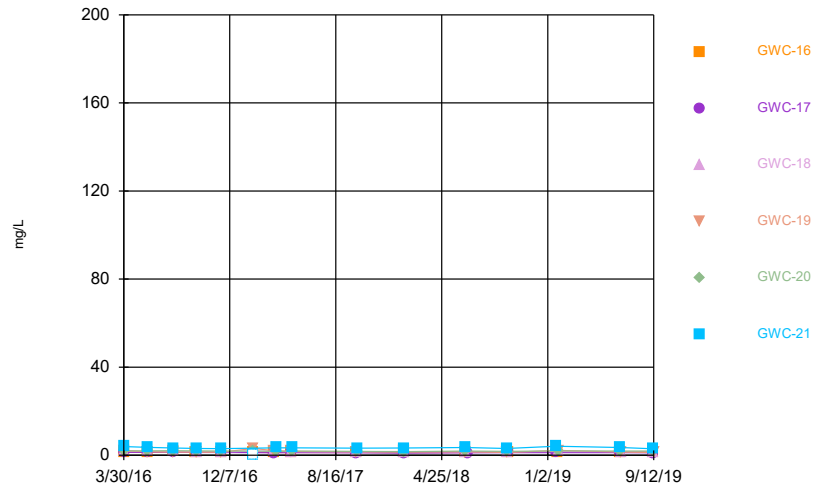
### Chloride



Time Series Analysis Run 11/13/2019 1:43 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

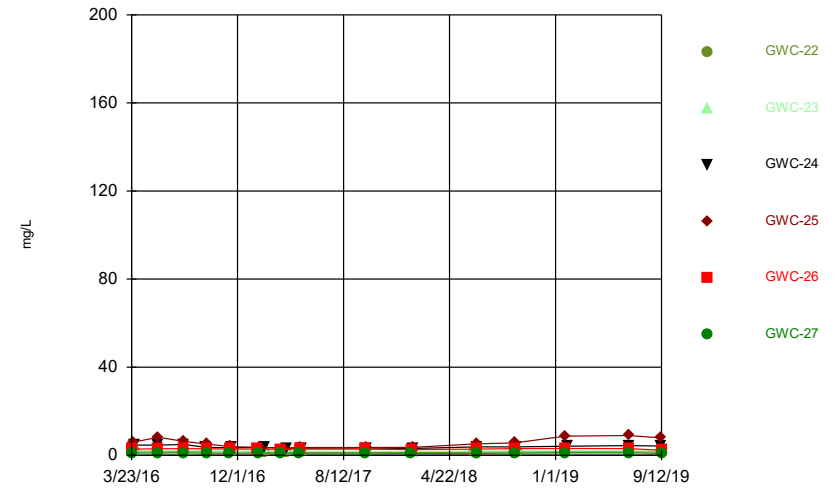


### Chloride



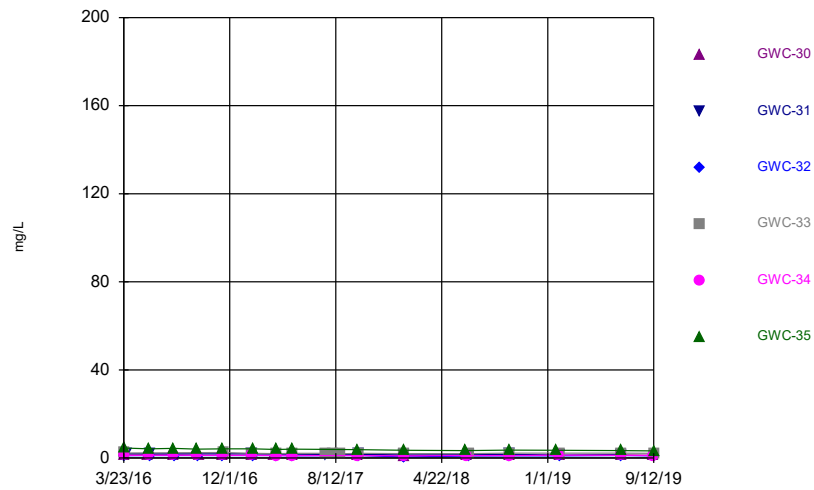
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



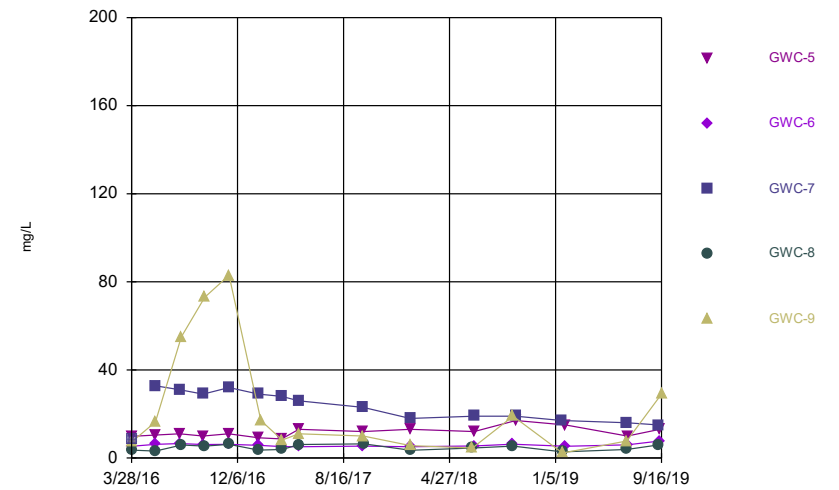
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



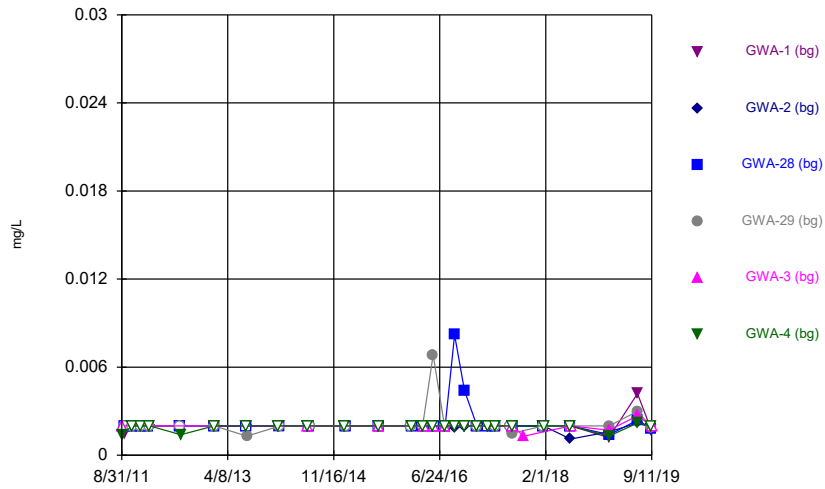
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chloride



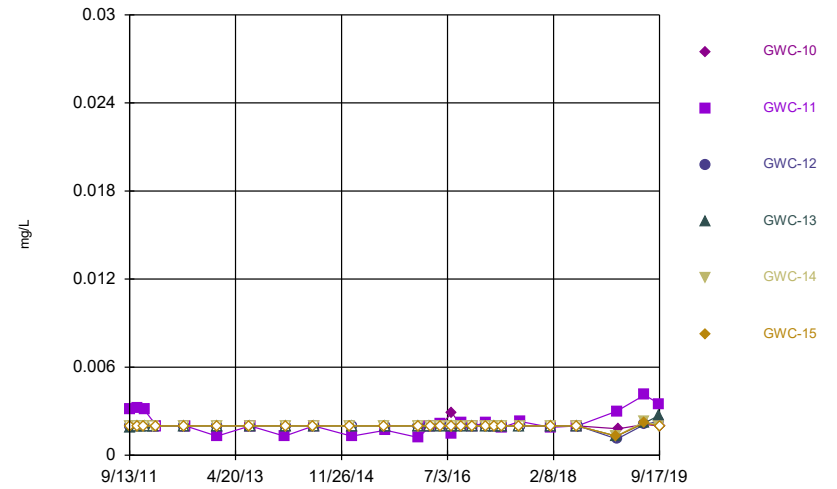
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium



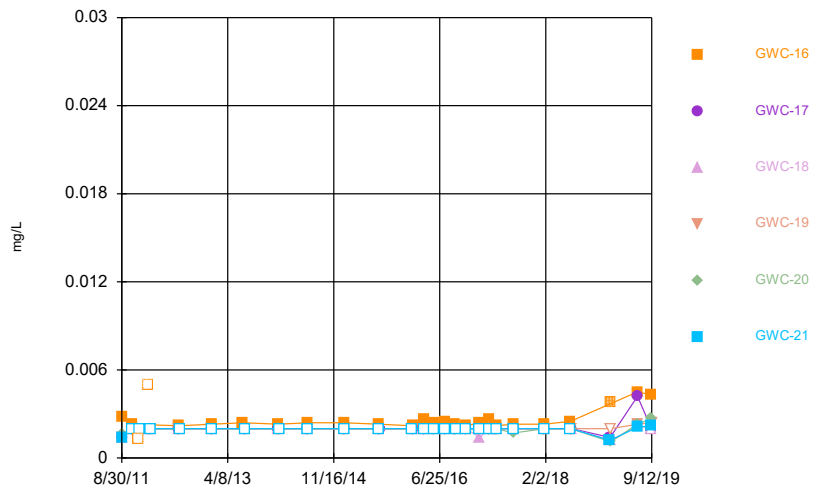
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### Chromium



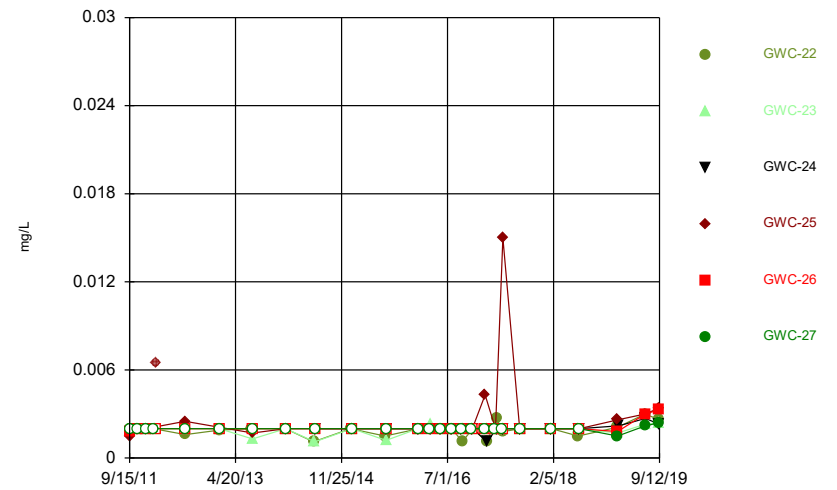
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### Chromium



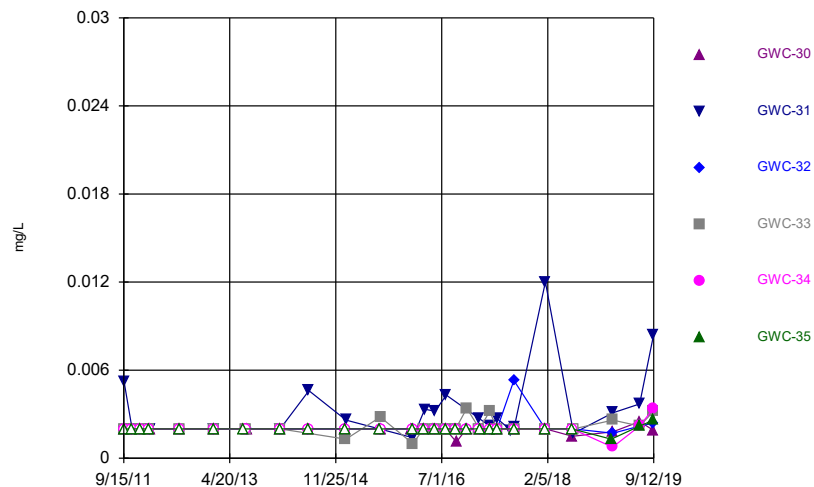
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### Chromium



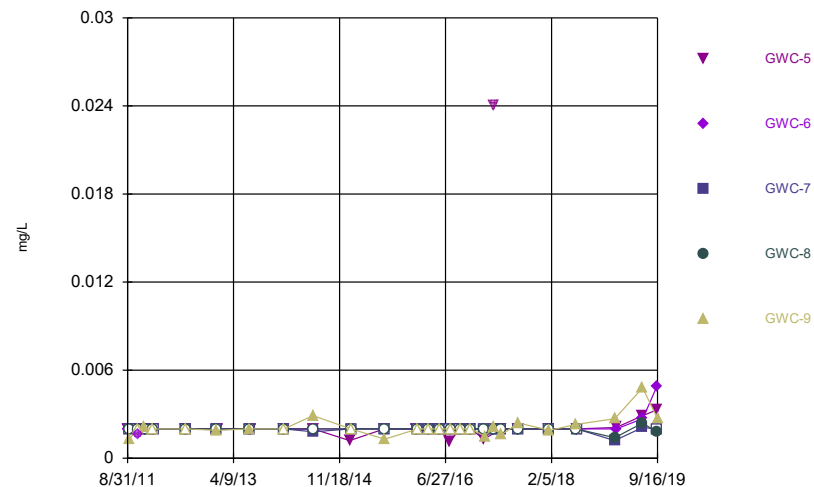
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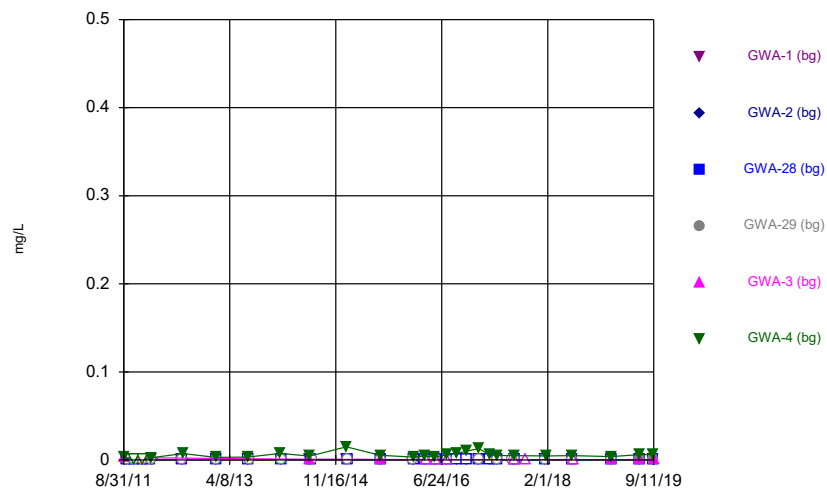
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### Chromium



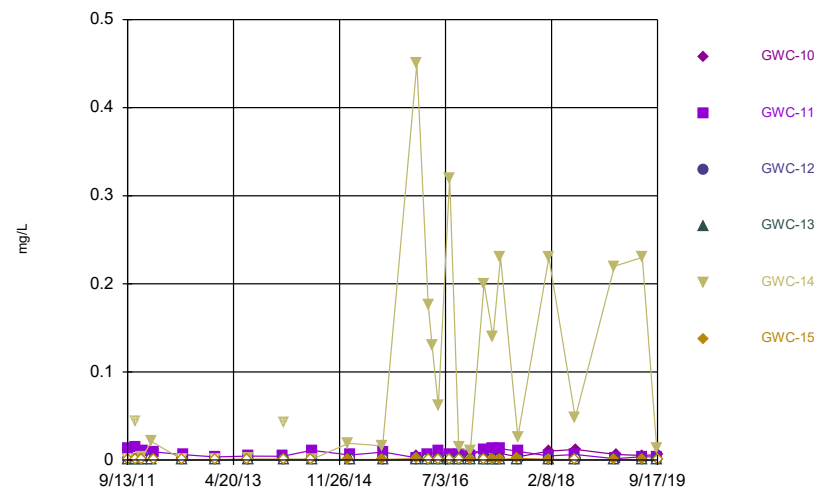
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### Cobalt



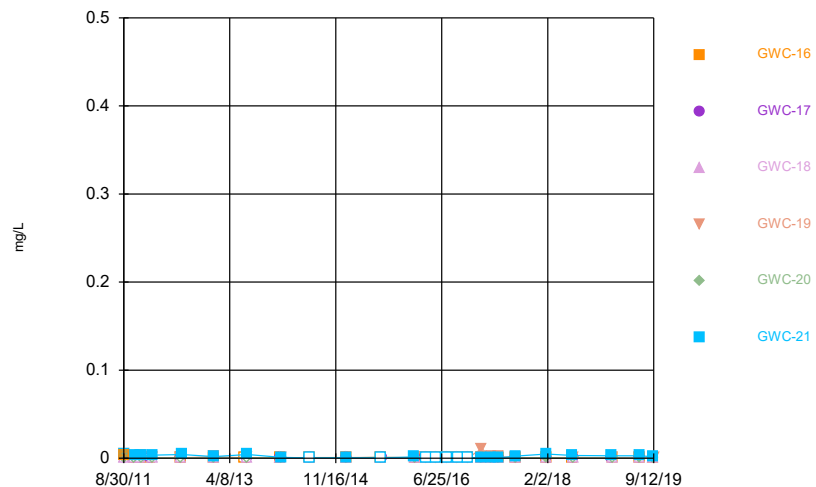
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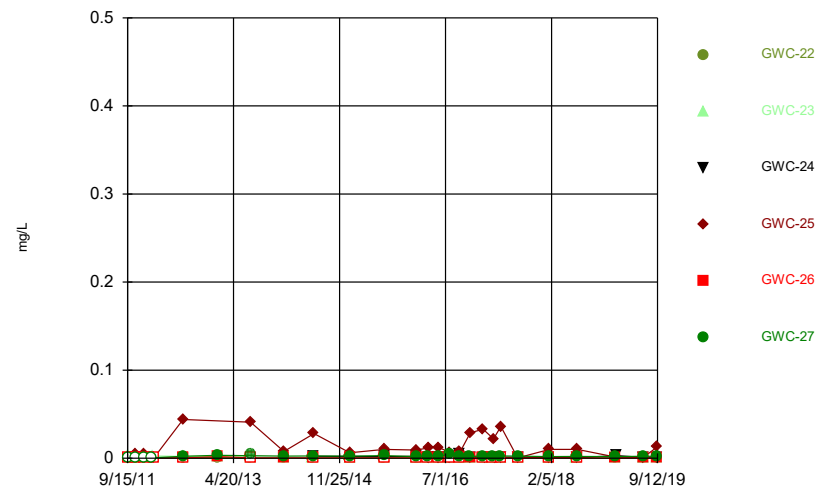
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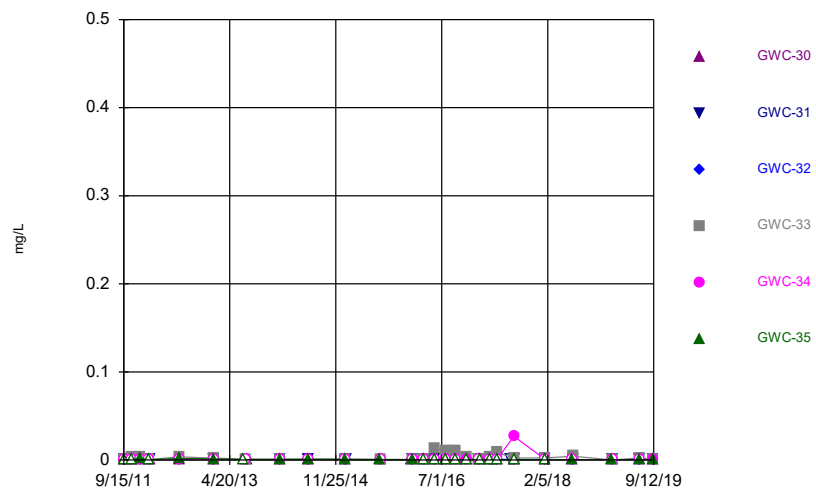
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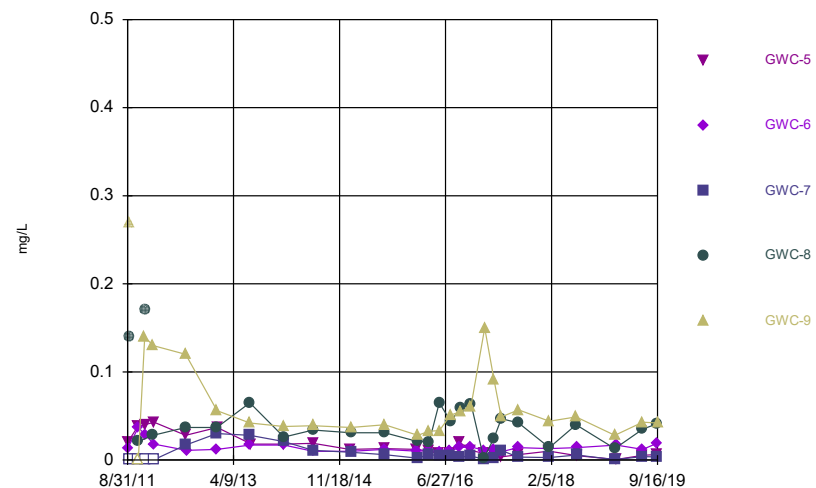
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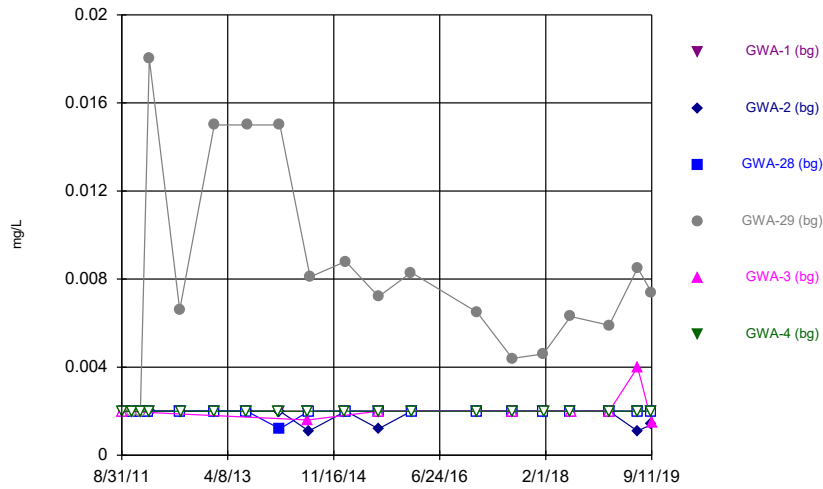
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### Cobalt



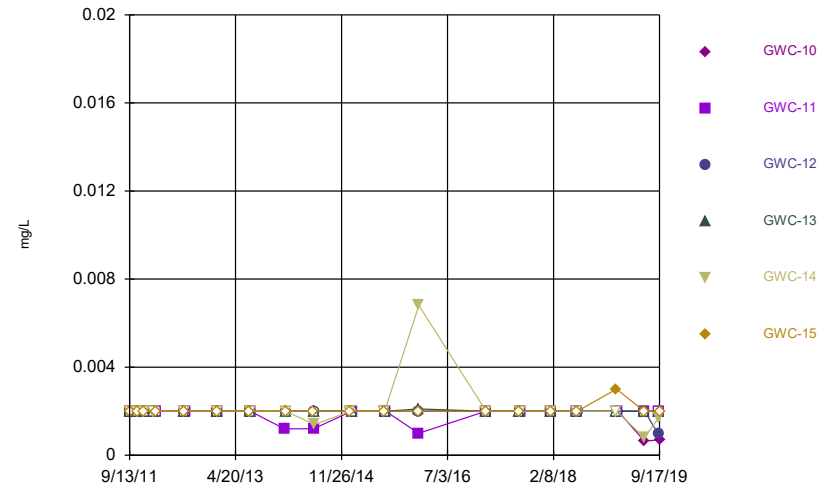
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### Copper



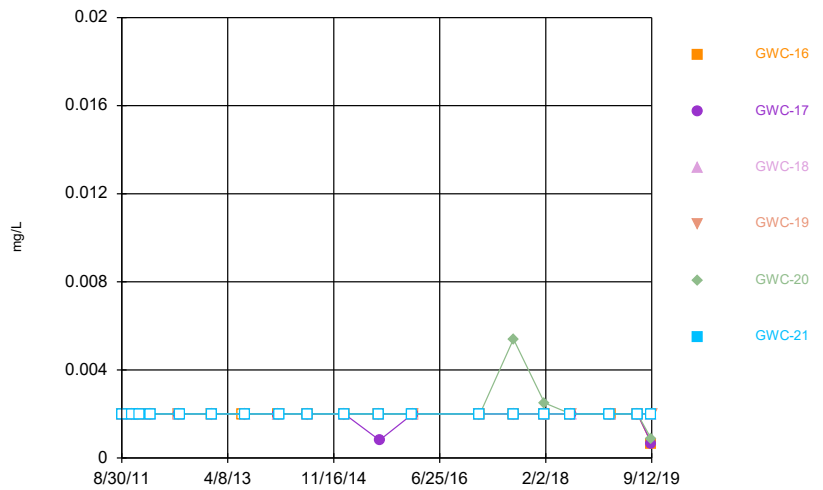
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### Copper



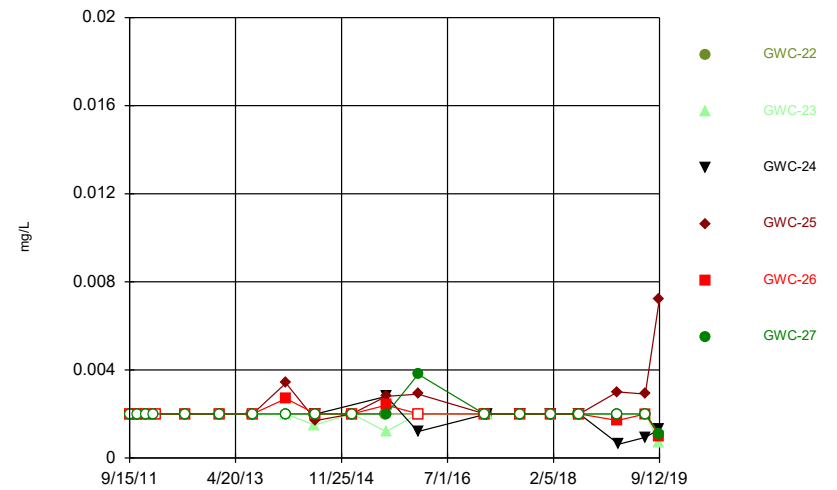
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### Copper



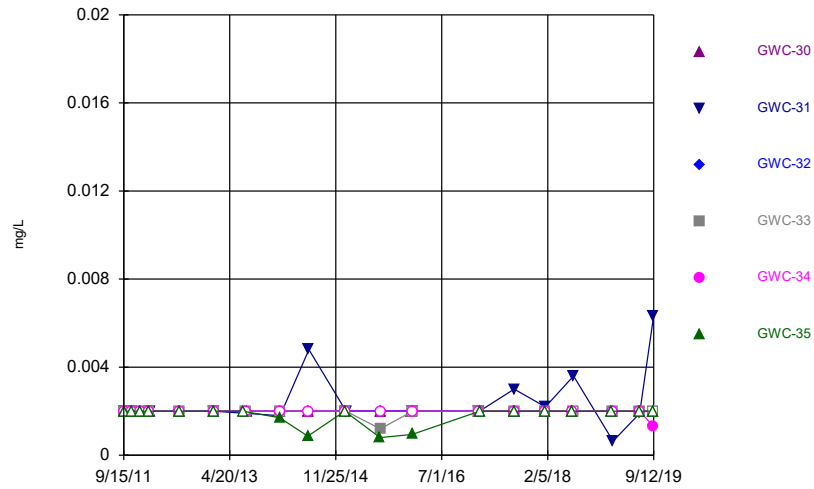
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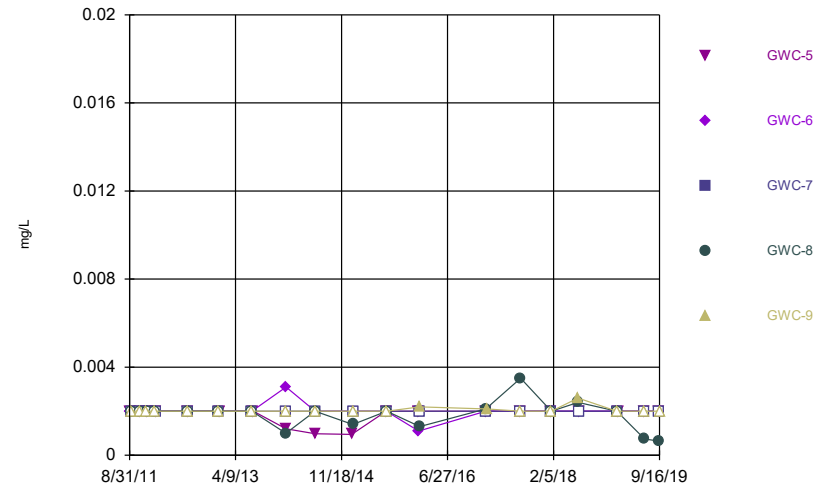
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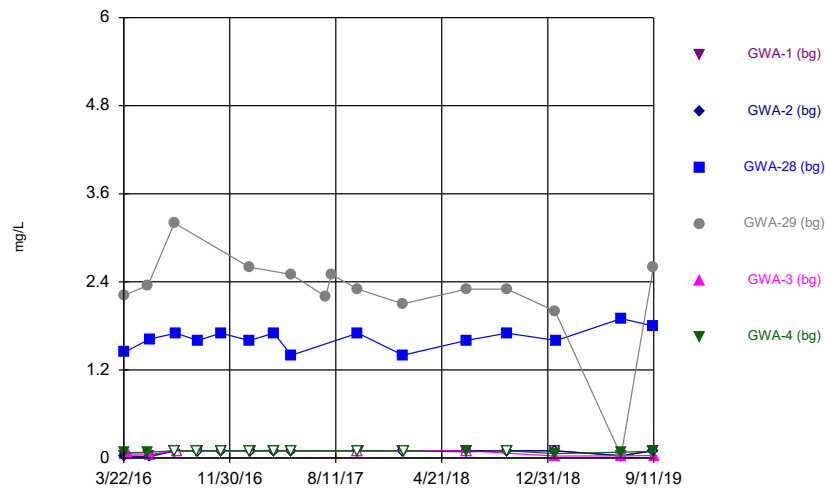
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### Copper



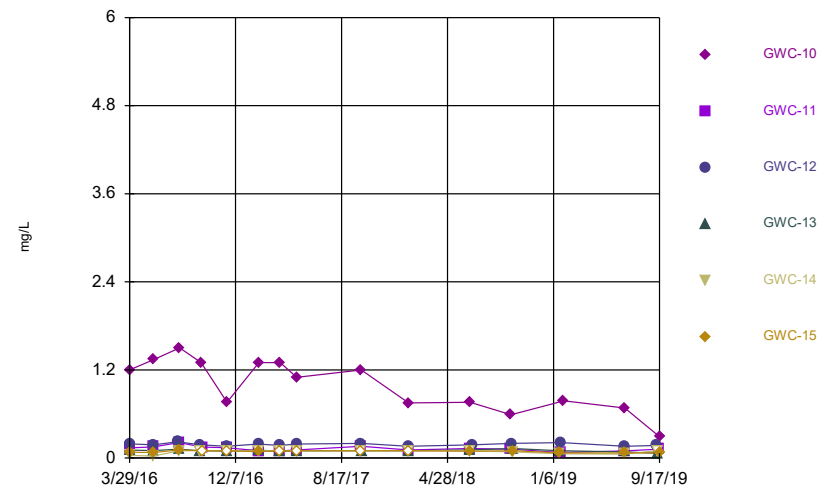
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### Fluoride



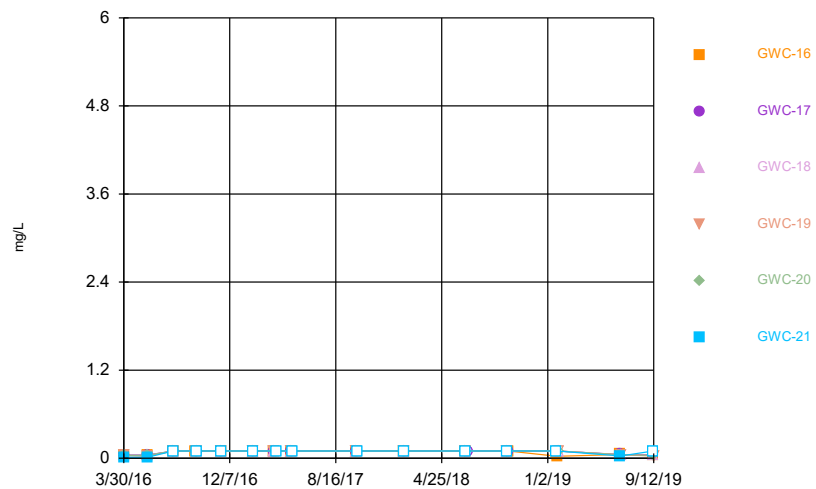
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### Fluoride



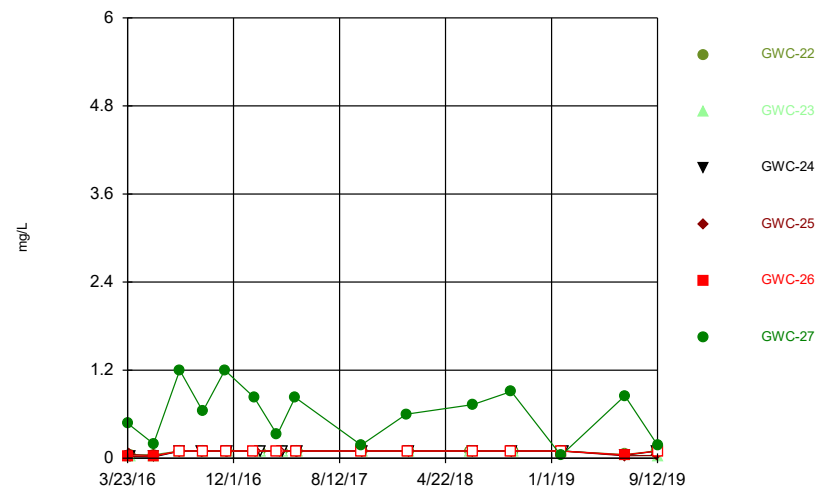
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### Fluoride



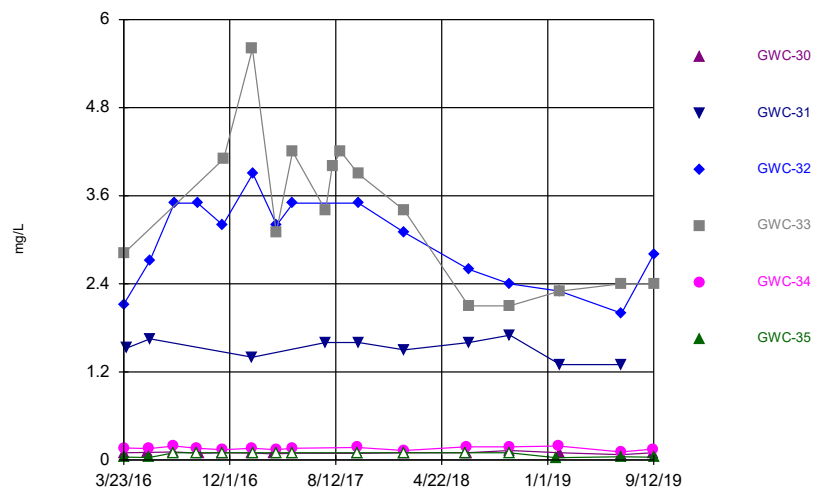
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### Fluoride



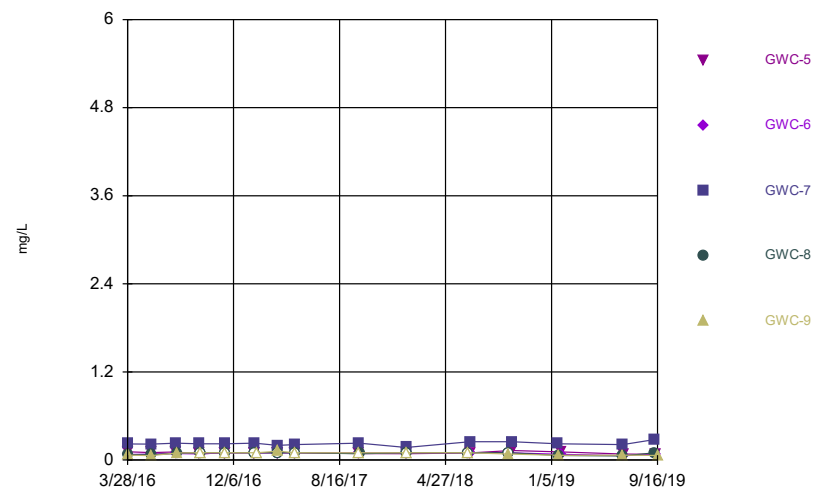
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### Fluoride



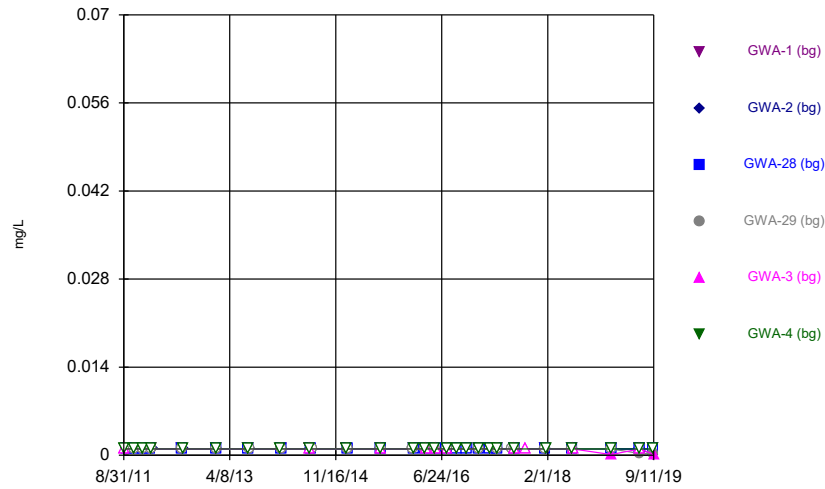
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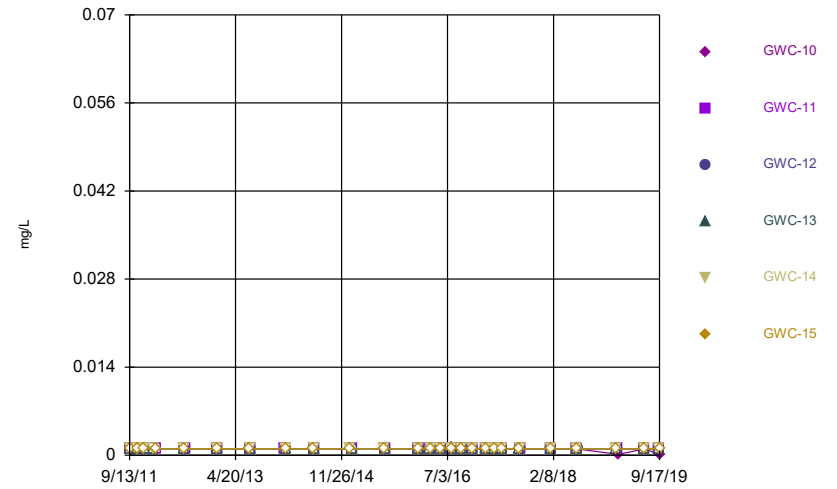
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### Lead



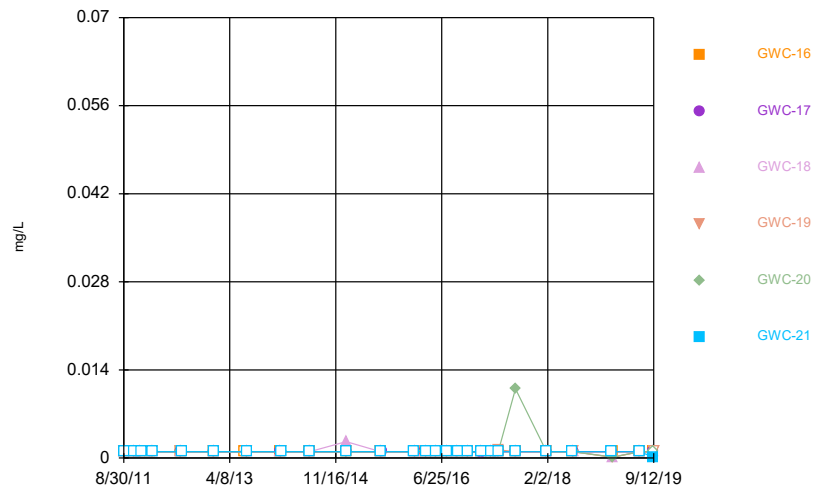
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### Lead



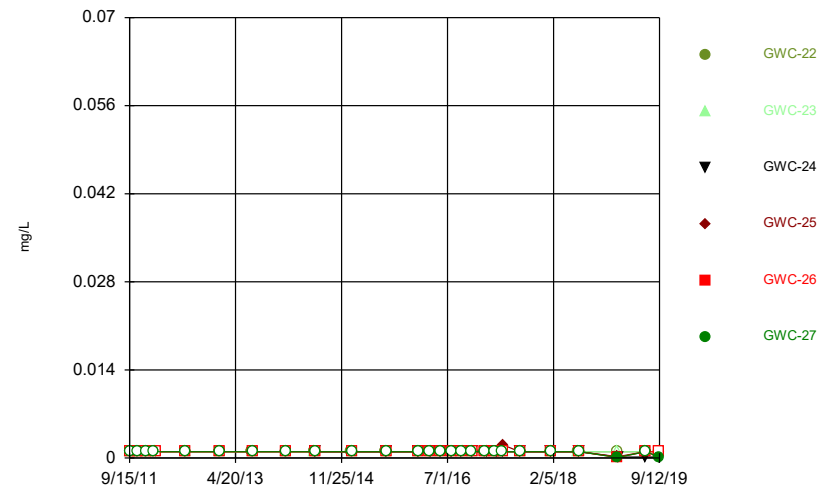
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Lead



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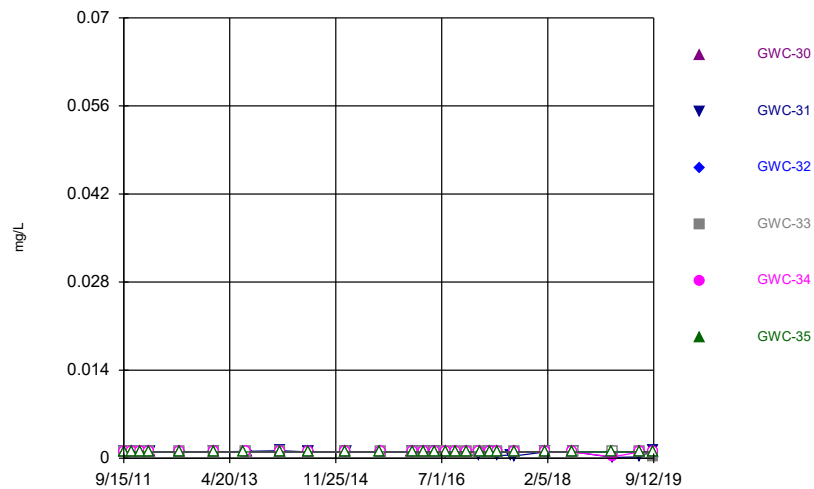
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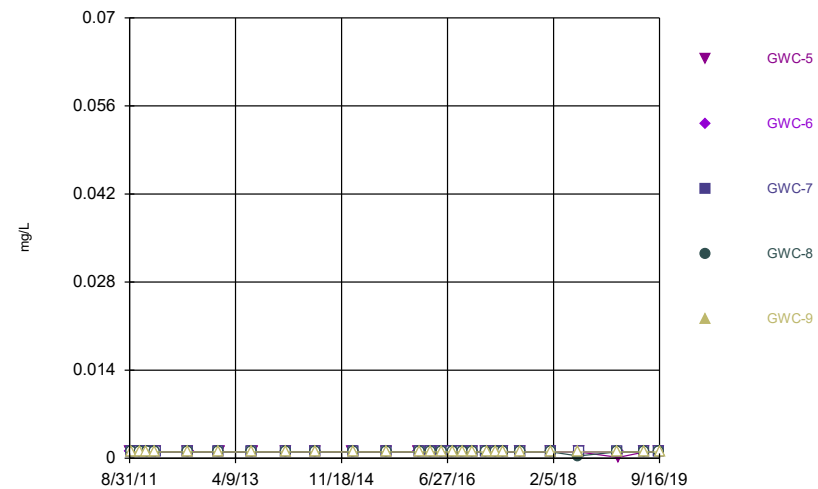


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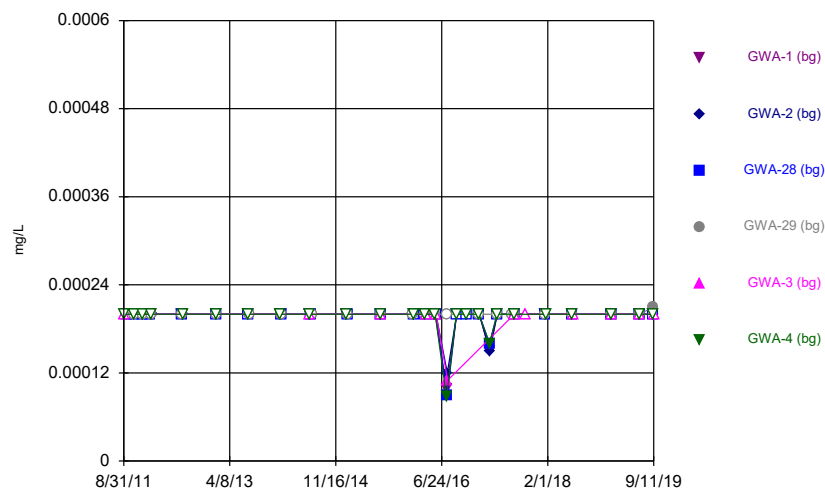
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### Lead



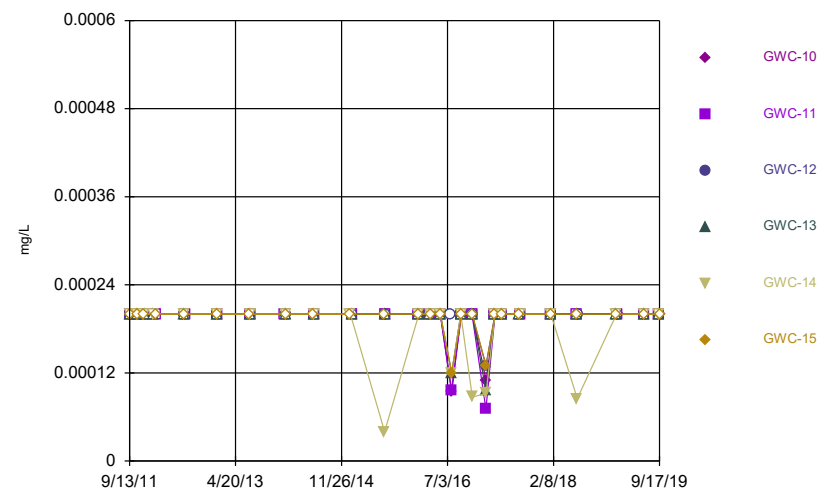
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### Mercury



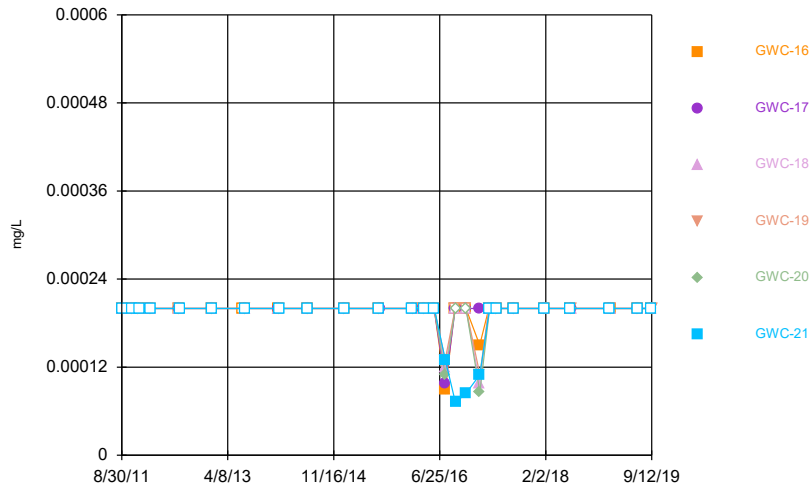
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### Mercury



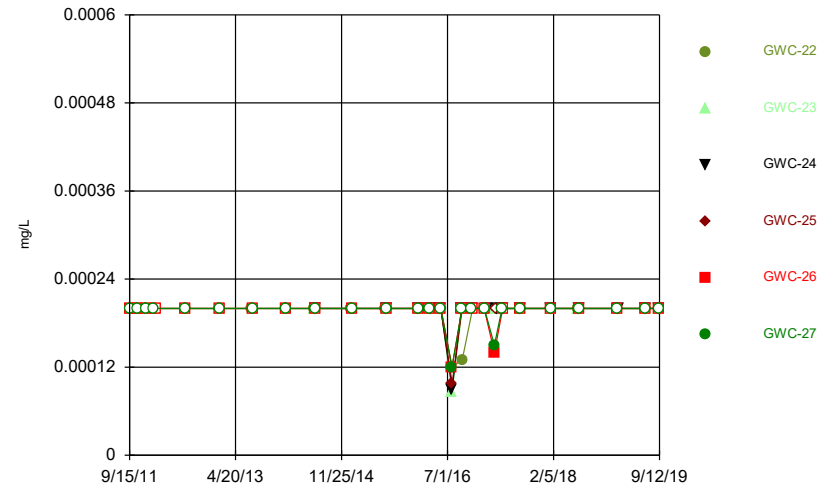
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### Mercury



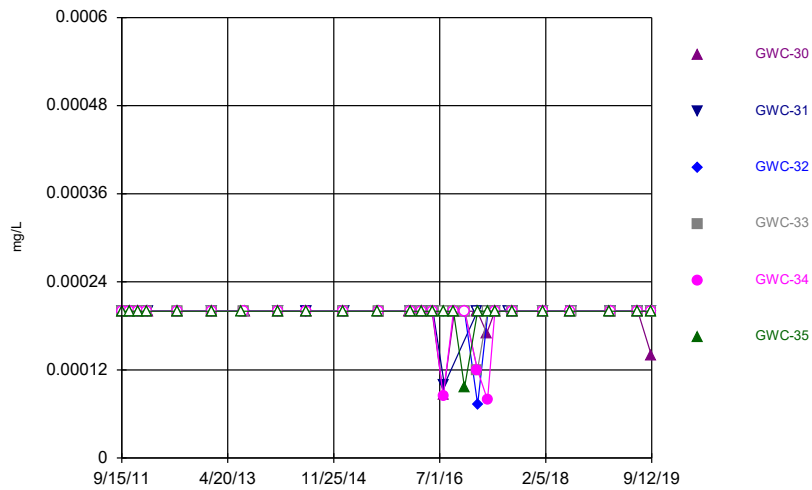
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### Mercury



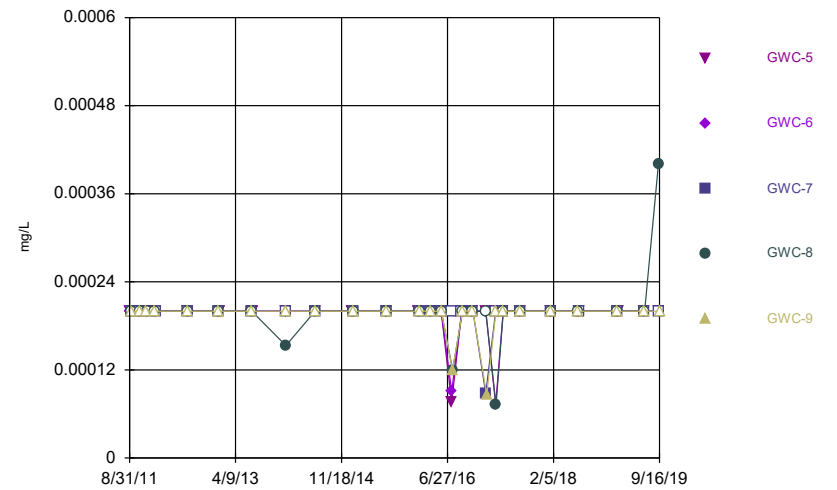
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### Mercury



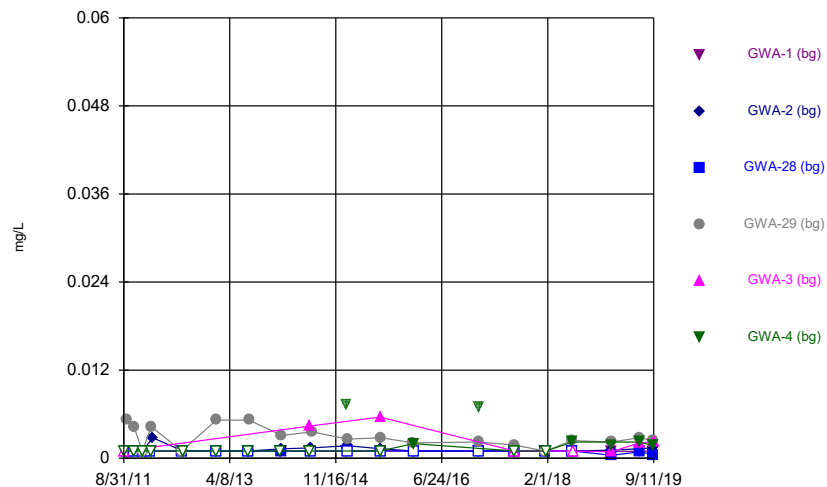
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### Mercury



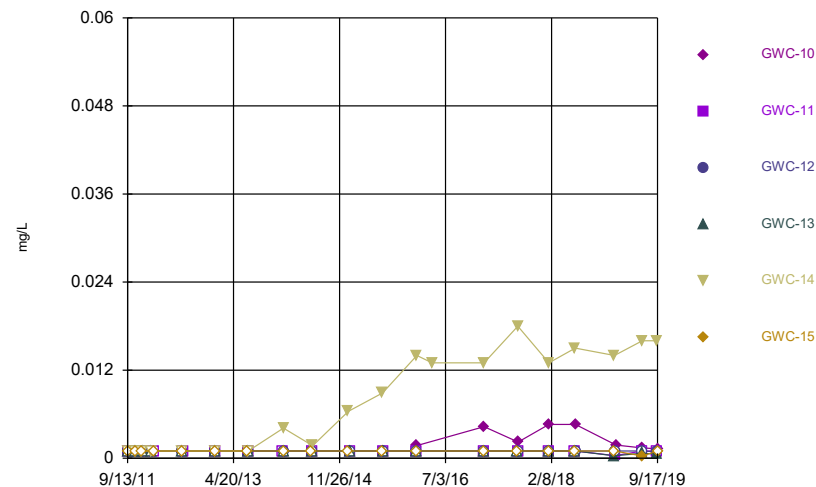
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### Nickel



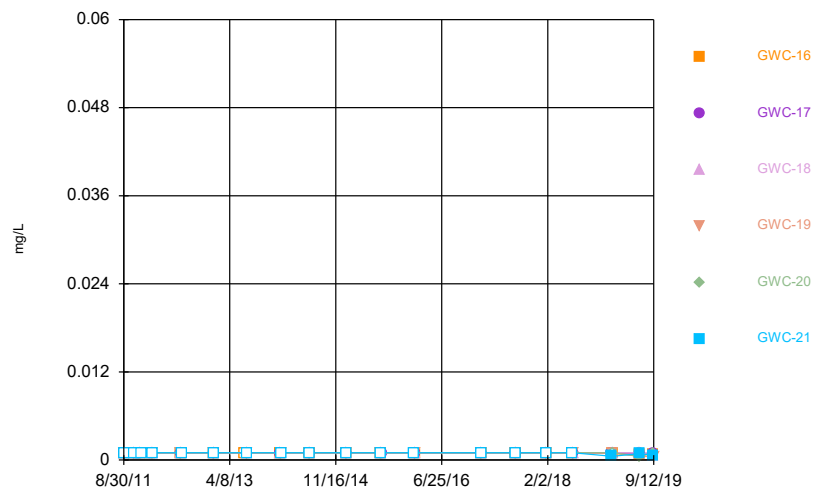
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### Nickel



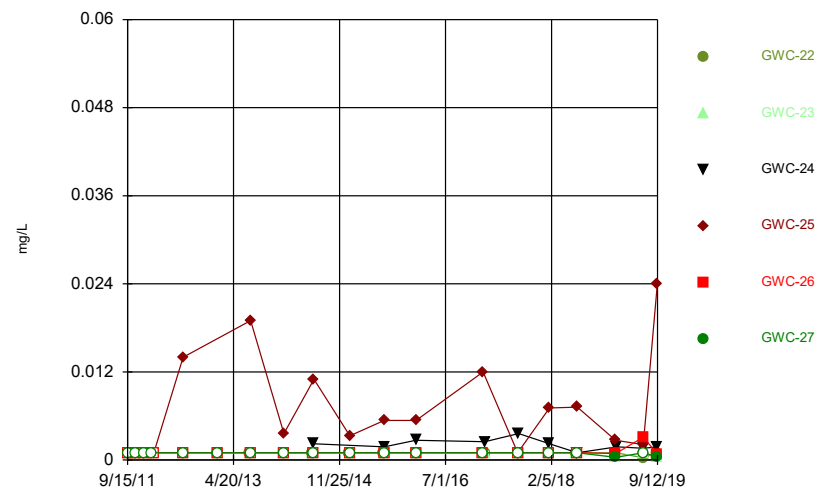
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### Nickel



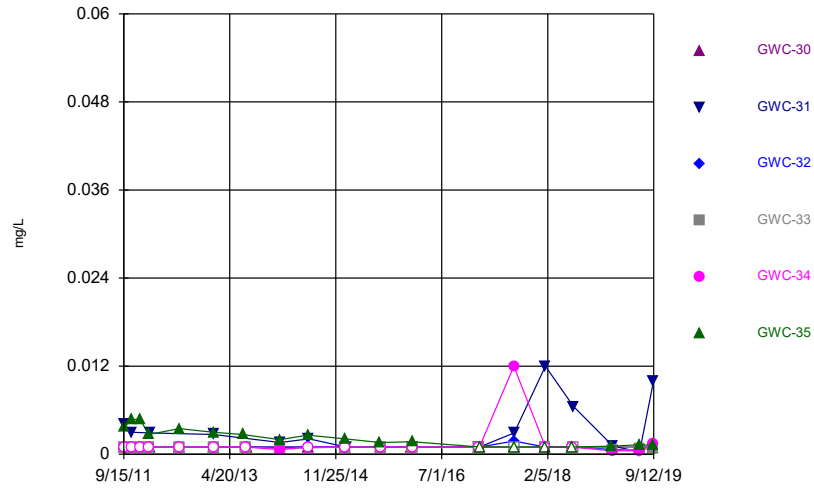
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### Nickel



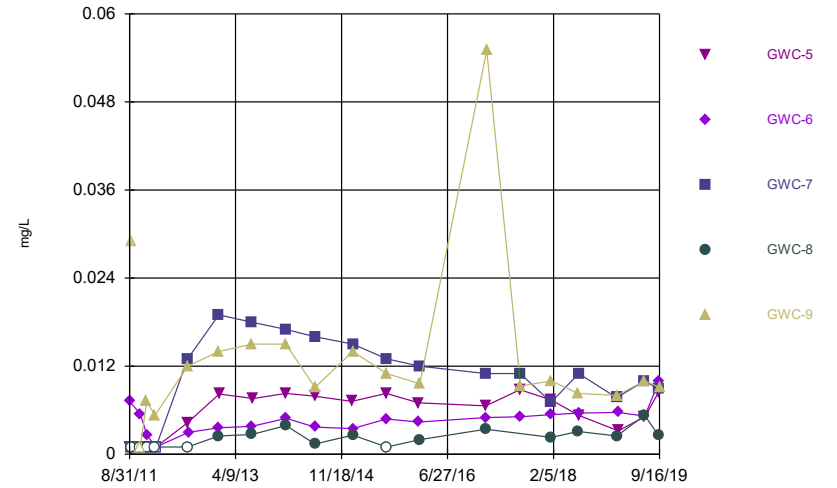
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### Nickel



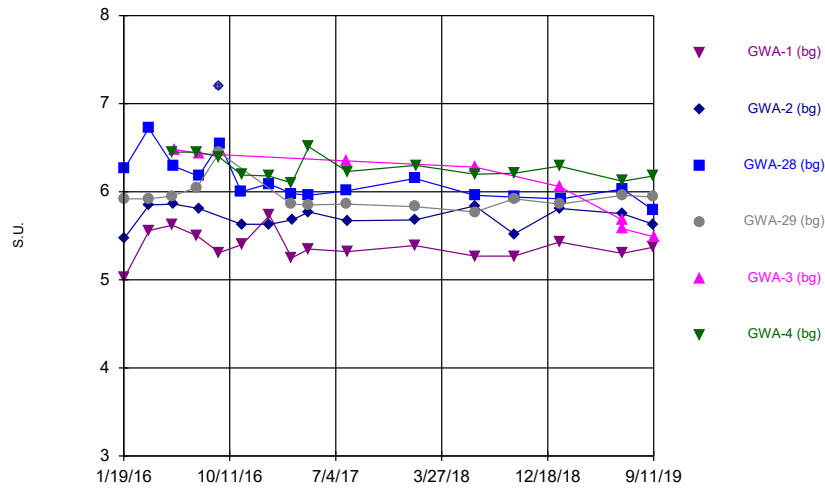
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### Nickel



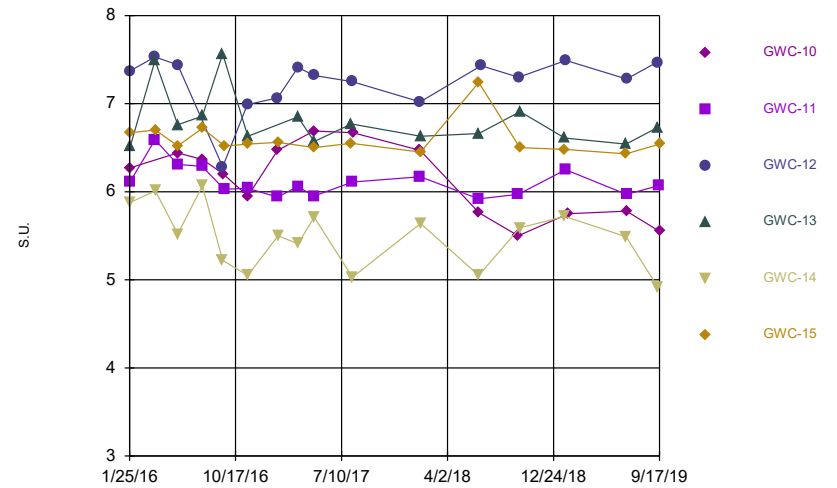
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### pH



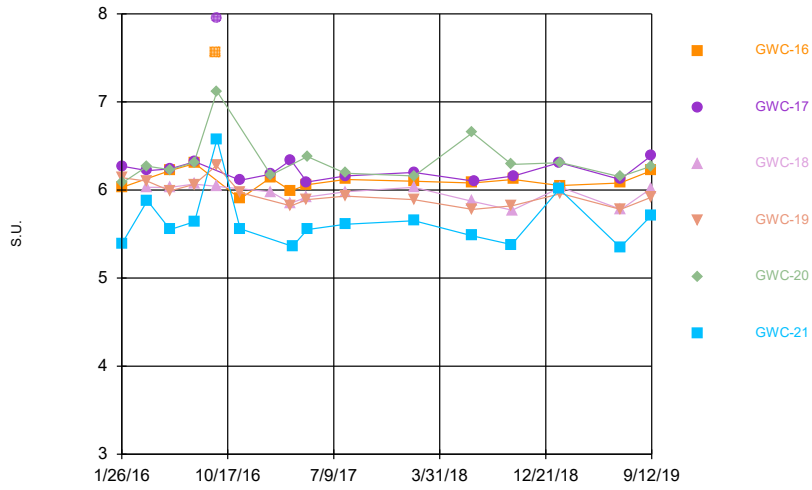
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### pH



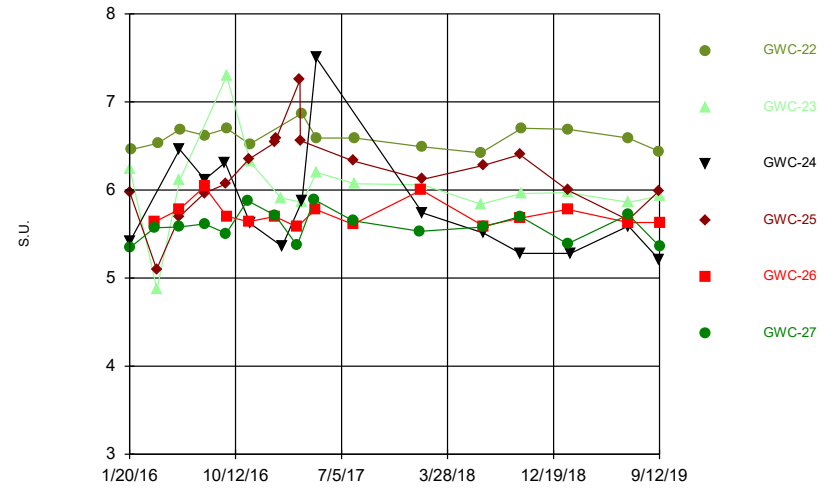
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pH



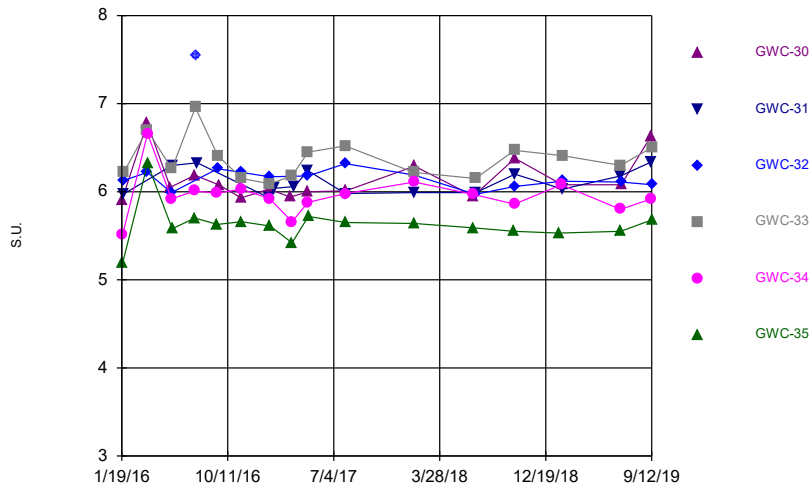
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Plant Wansley Client: Southern Company Data: Wansley Landfill

pH



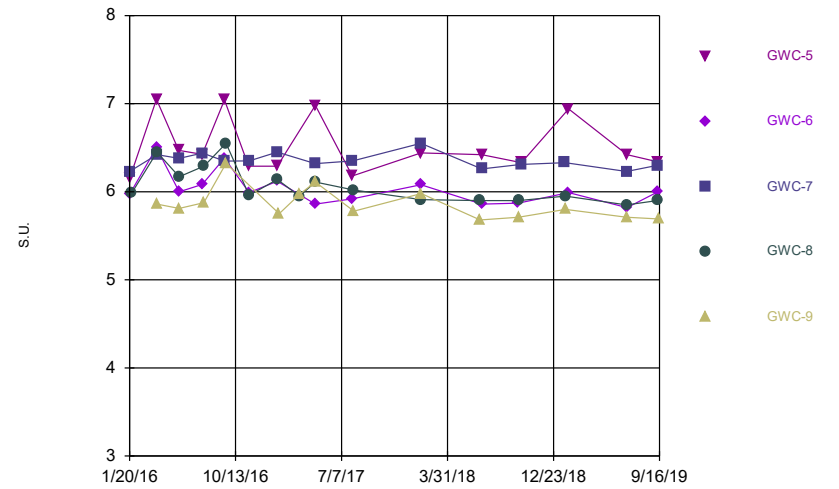
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Plant Wansley Client: Southern Company Data: Wansley Landfill

pH



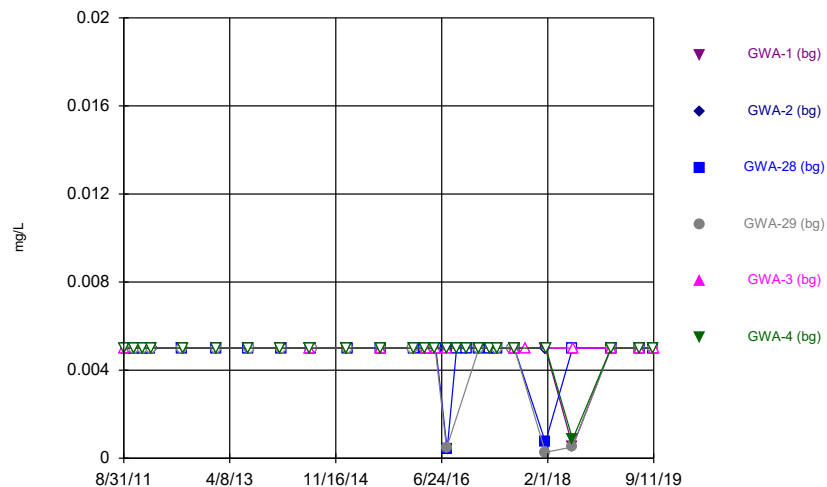
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Plant Wansley Client: Southern Company Data: Wansley Landfill

pH



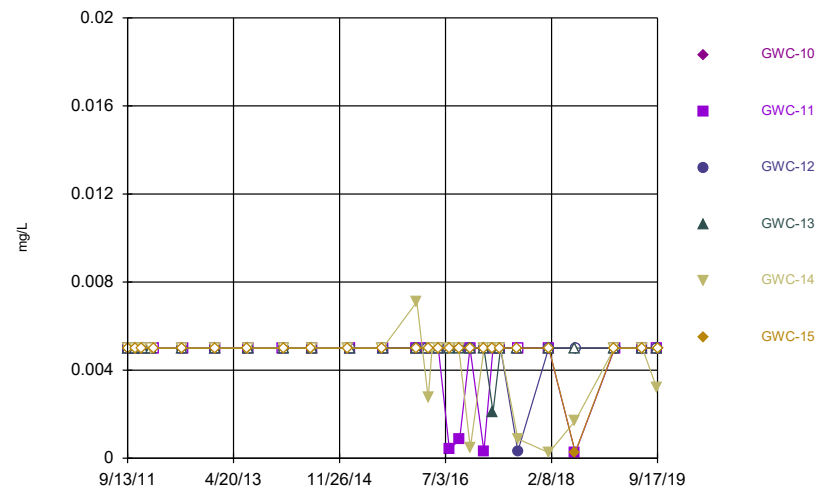
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Selenium



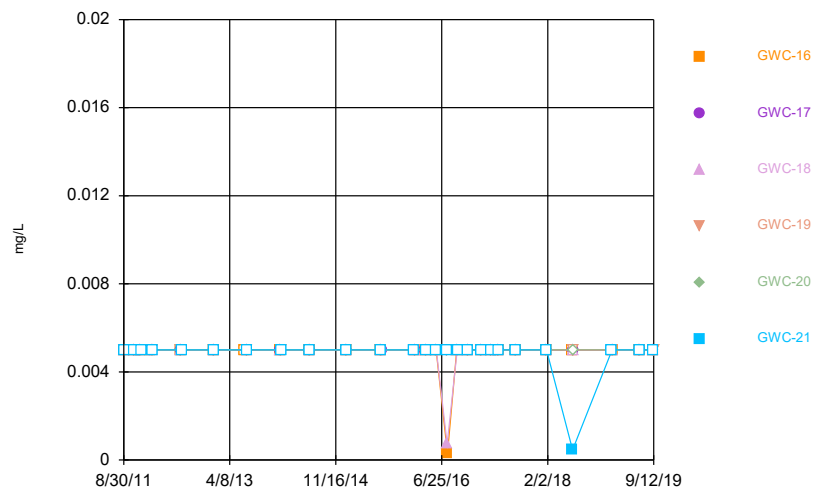
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### Selenium



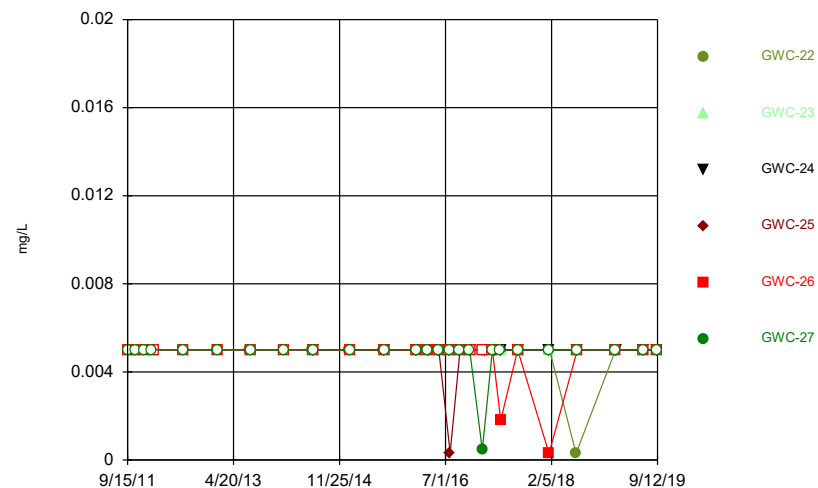
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Selenium



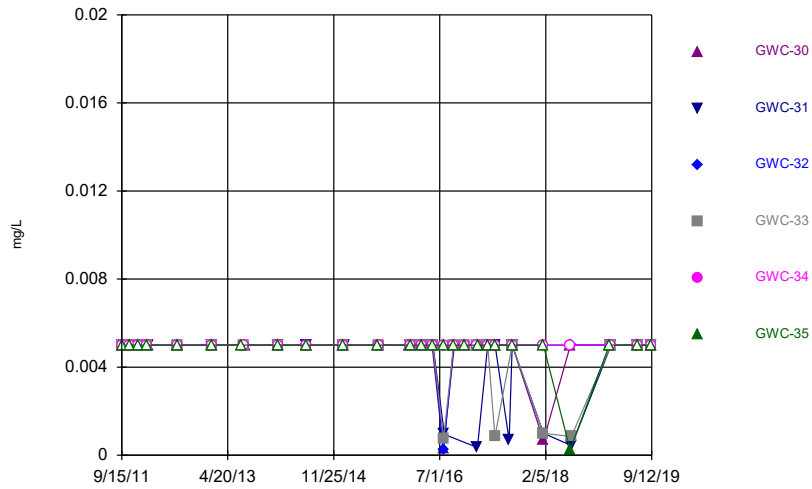
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### Selenium



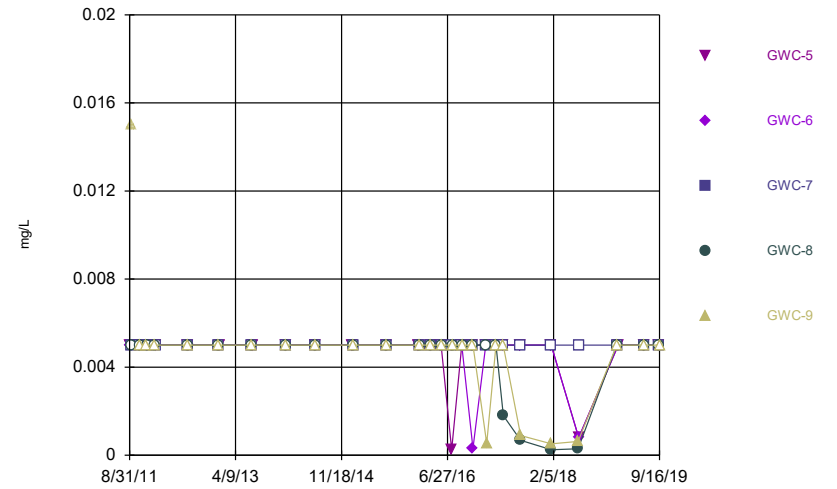
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### Selenium



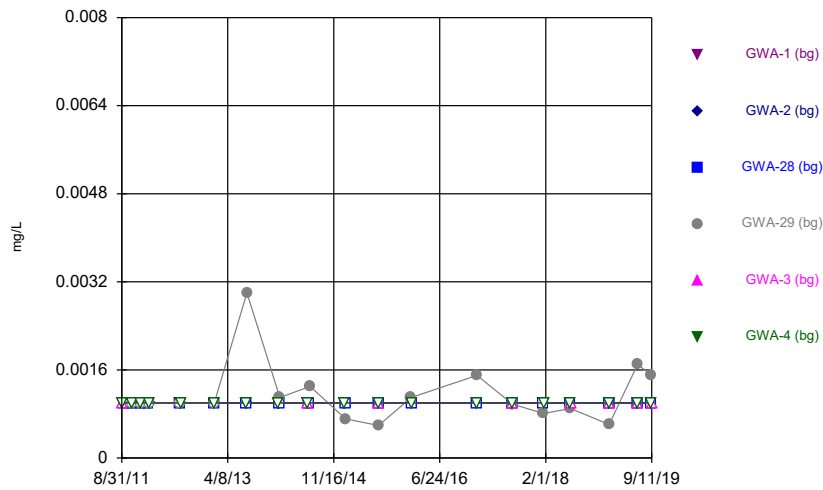
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Selenium



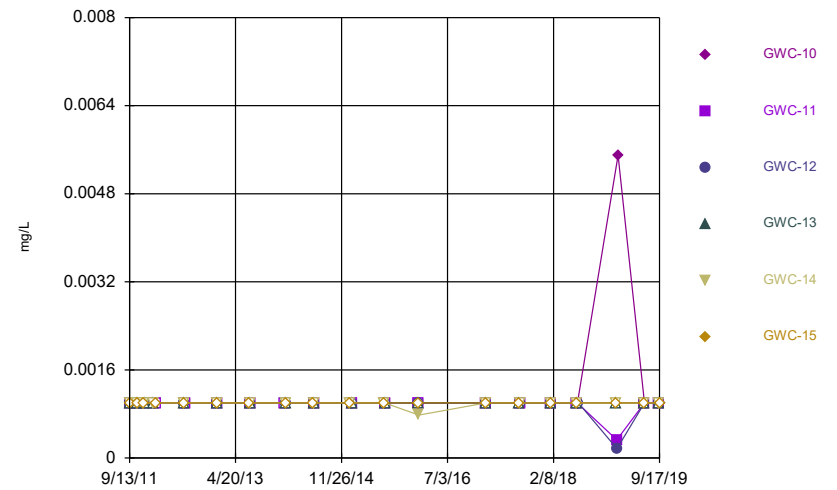
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### Silver



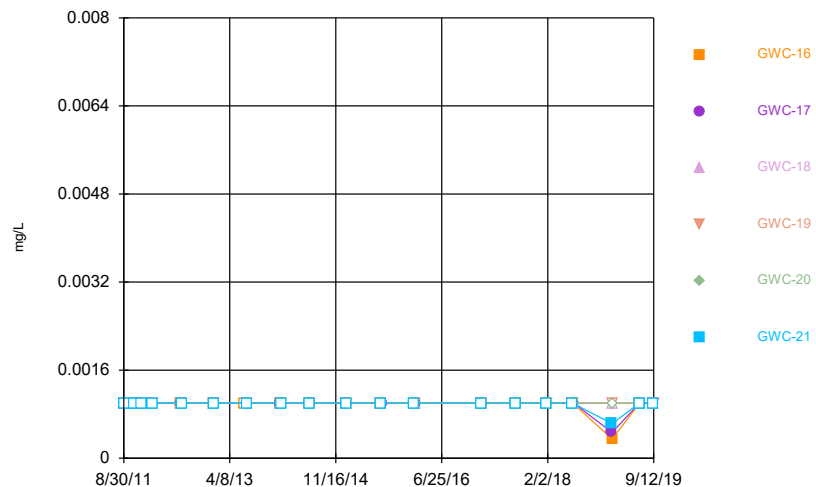
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### Silver



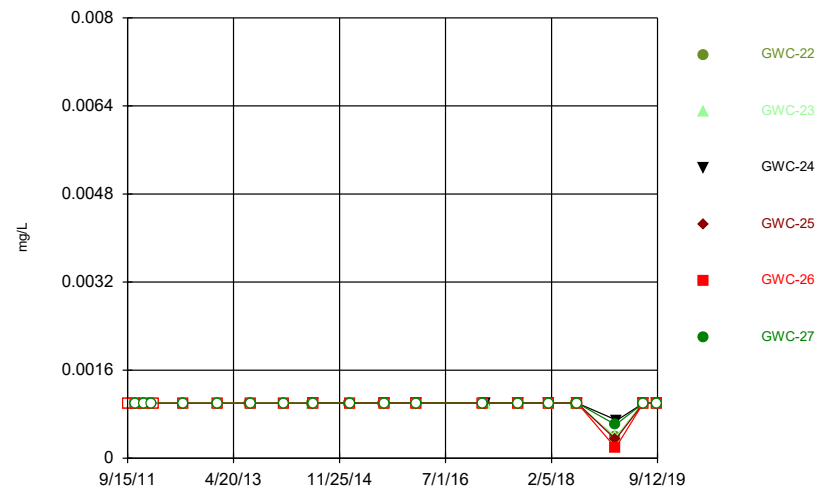
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### Silver



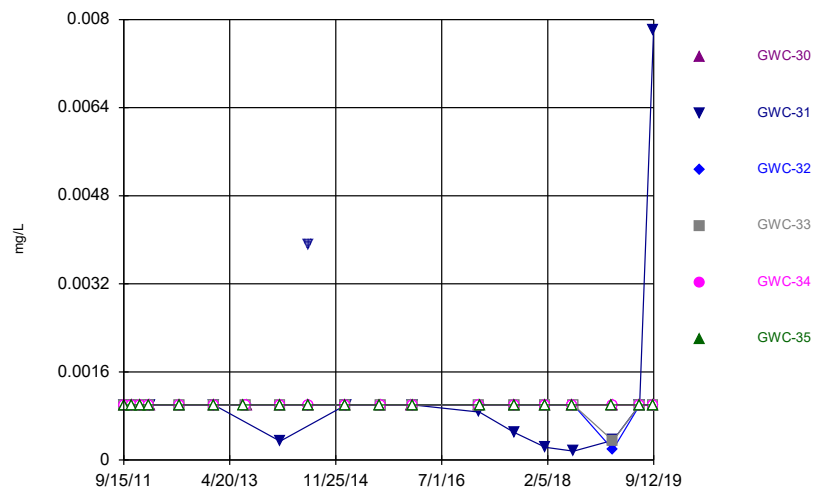
Time Series Analysis Run 11/13/2019 1:46 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Silver



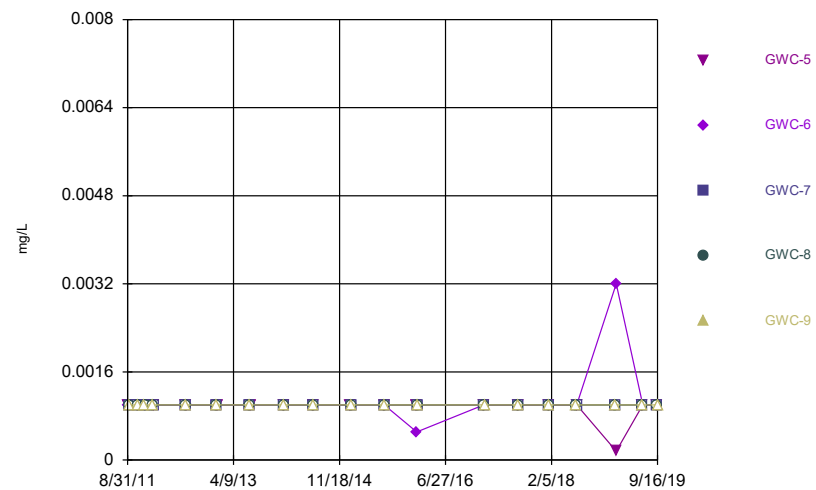
Time Series Analysis Run 11/13/2019 1:46 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Silver



Time Series Analysis Run 11/13/2019 1:46 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

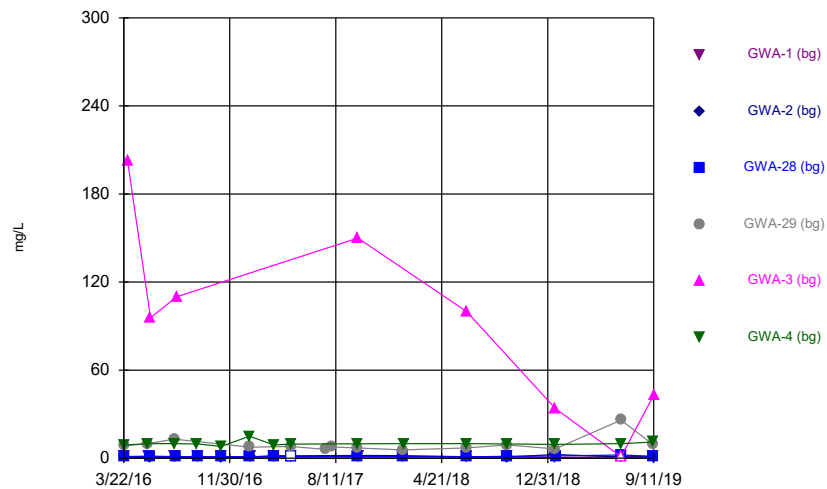
### Silver



Time Series Analysis Run 11/13/2019 1:46 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

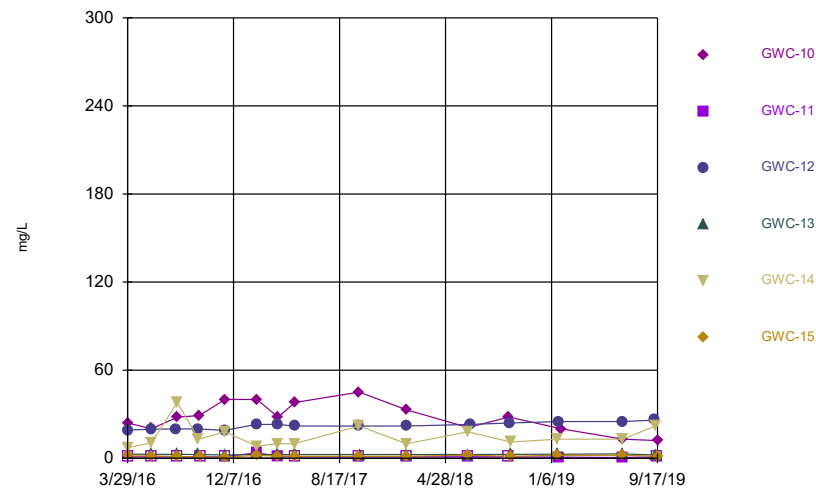


### Sulfate



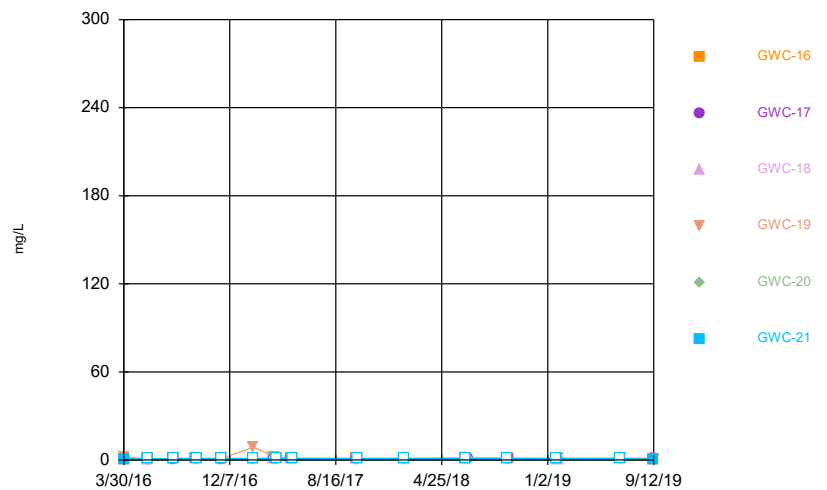
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate



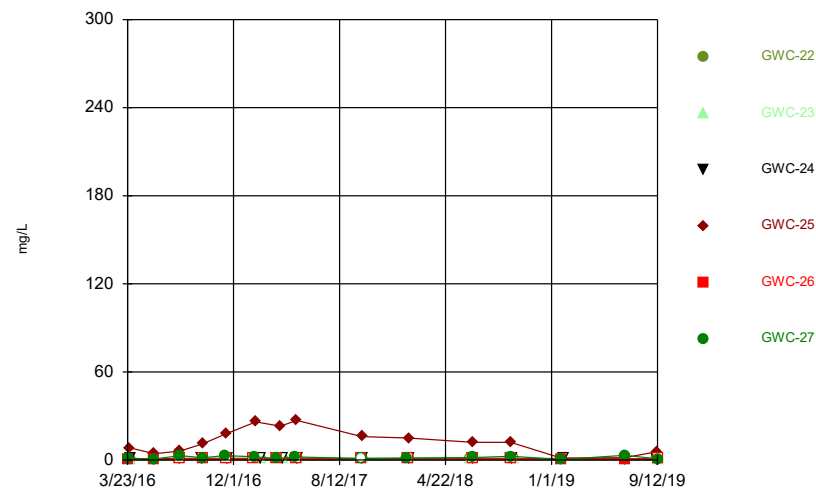
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate



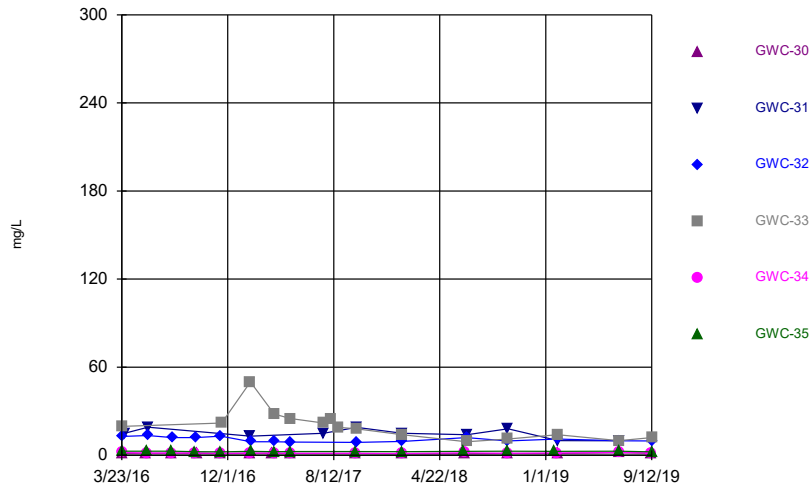
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate



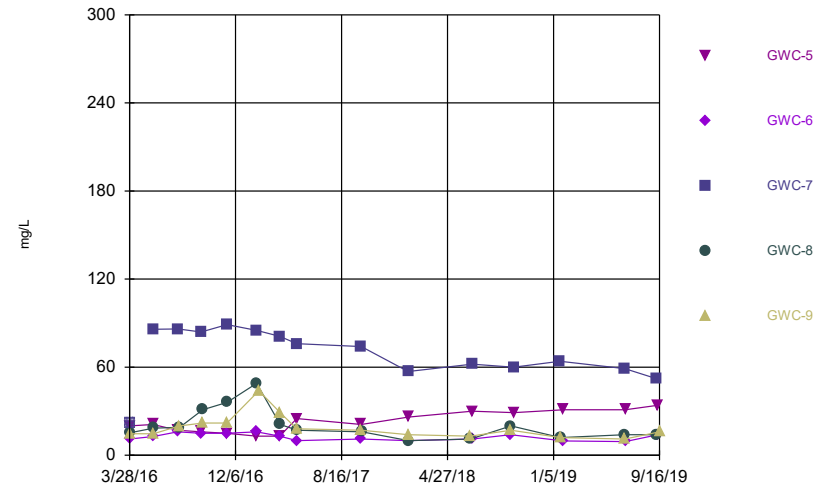
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate



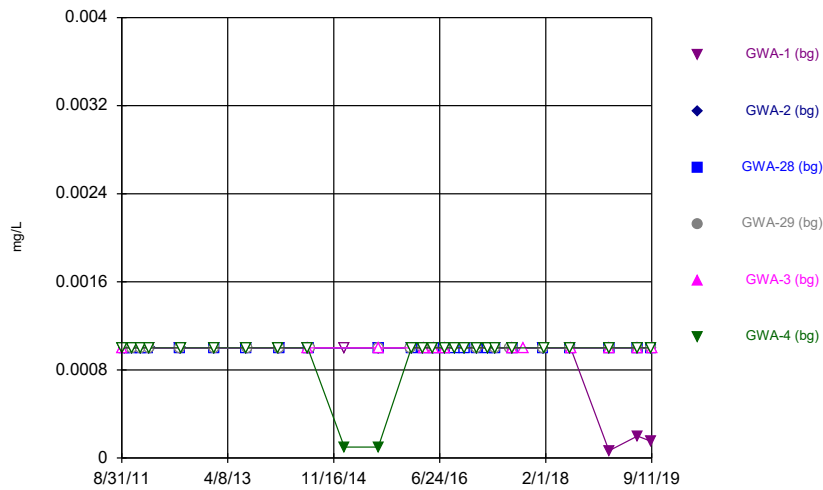
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate



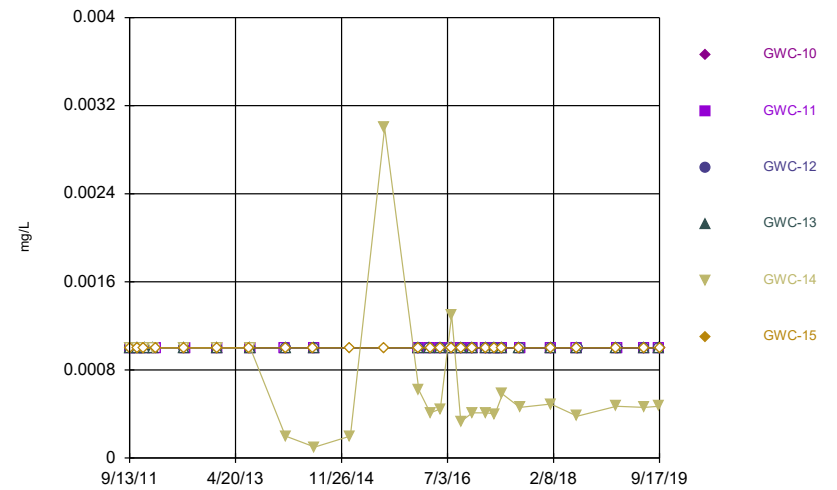
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Thallium



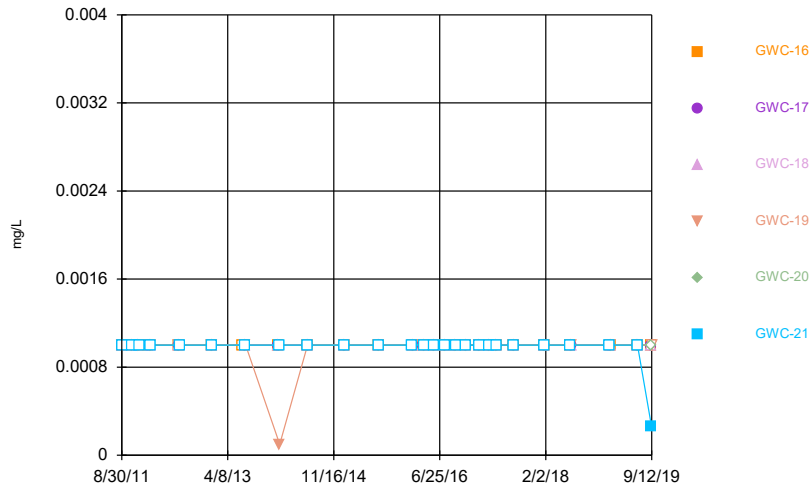
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Thallium



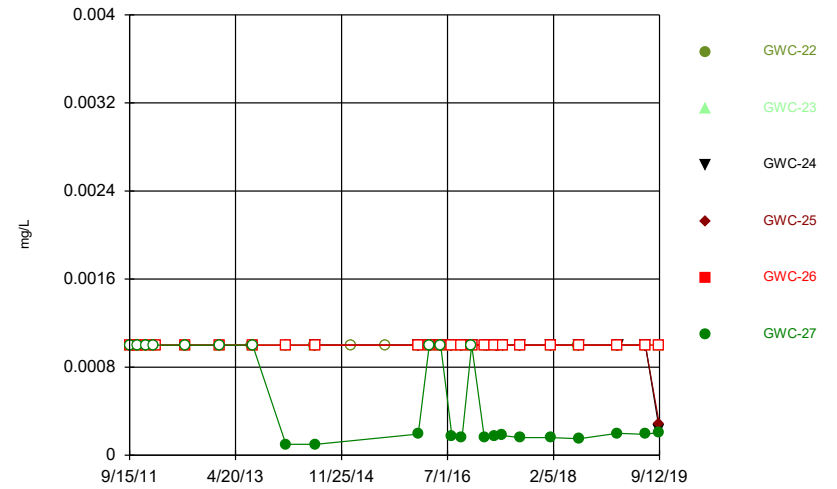
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Thallium



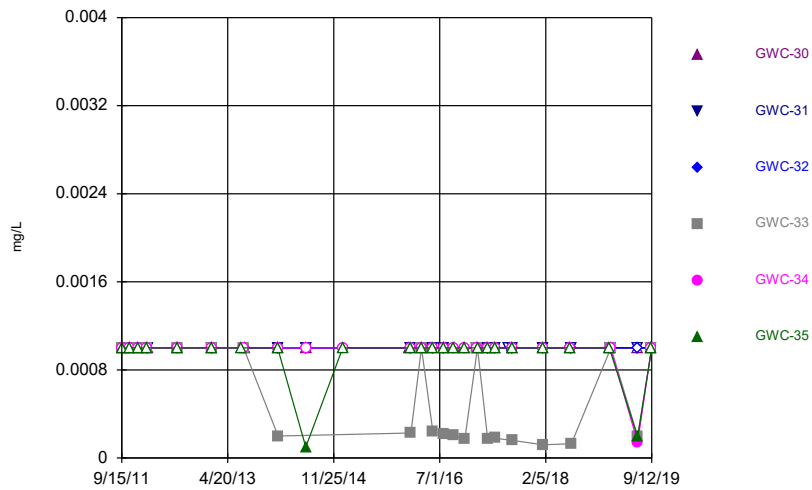
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Thallium



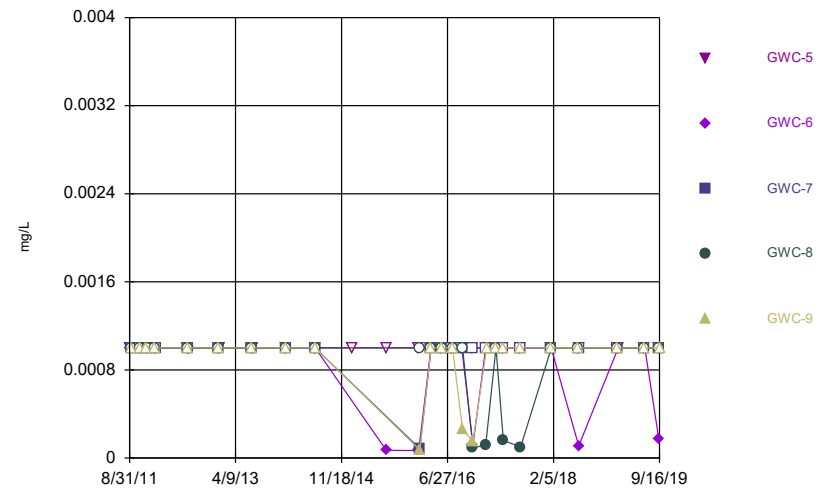
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Thallium



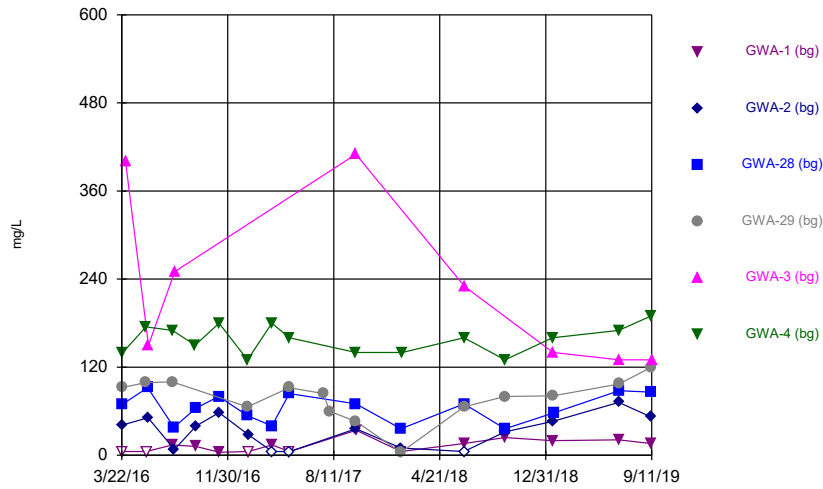
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Thallium



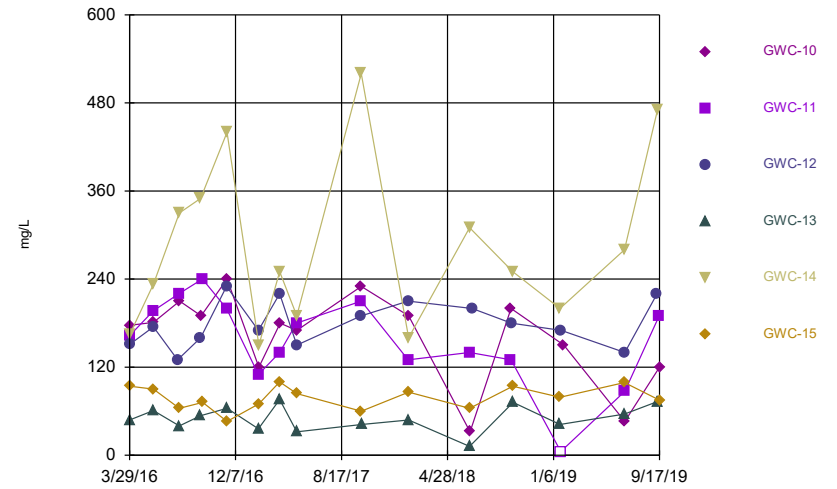
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



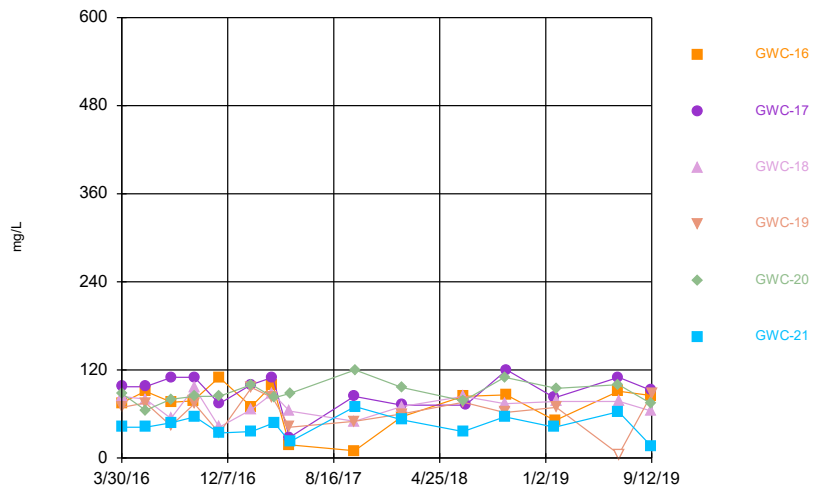
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



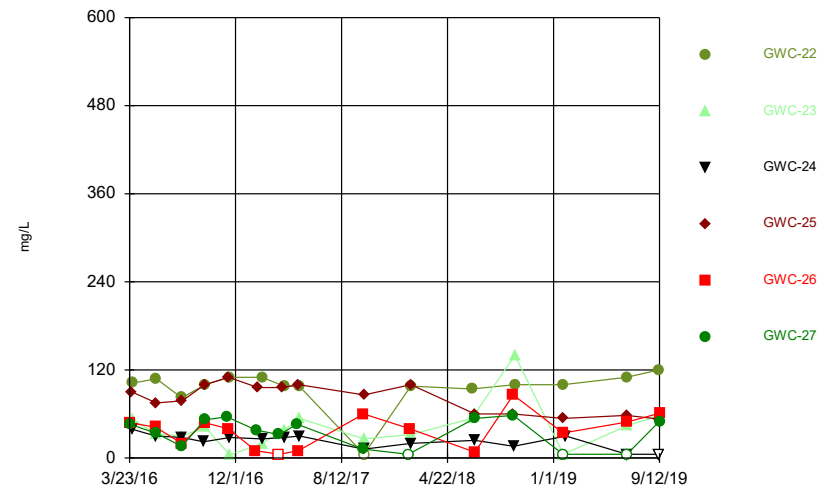
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



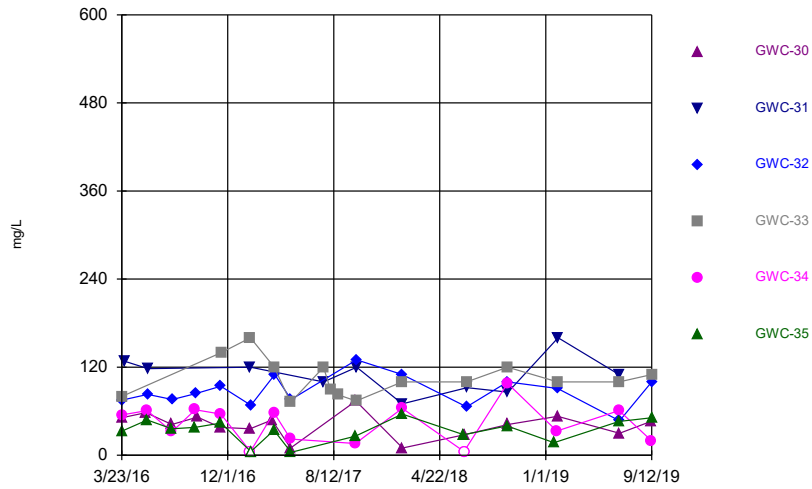
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



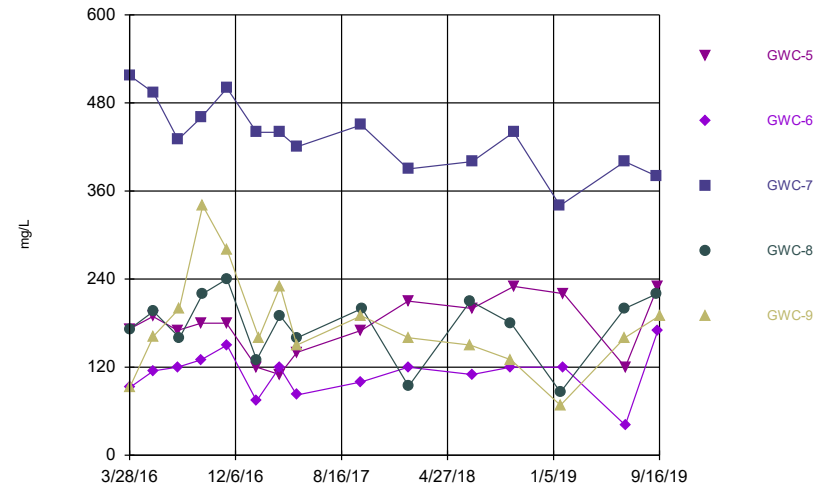
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



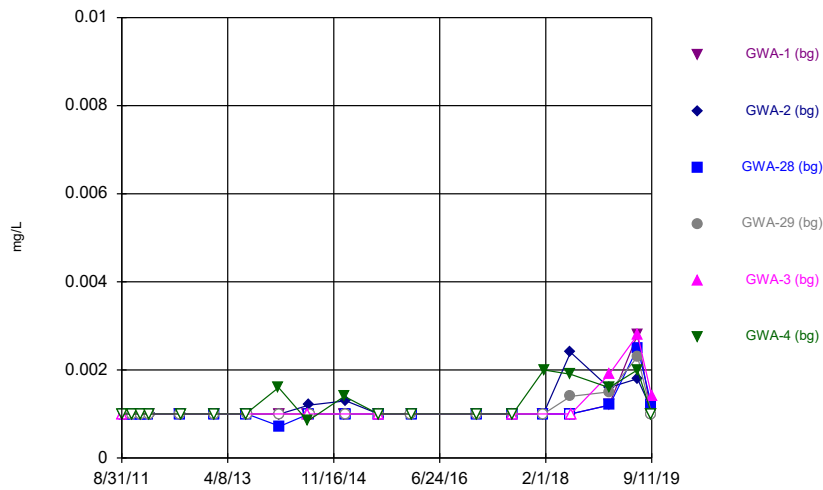
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Total Dissolved Solids



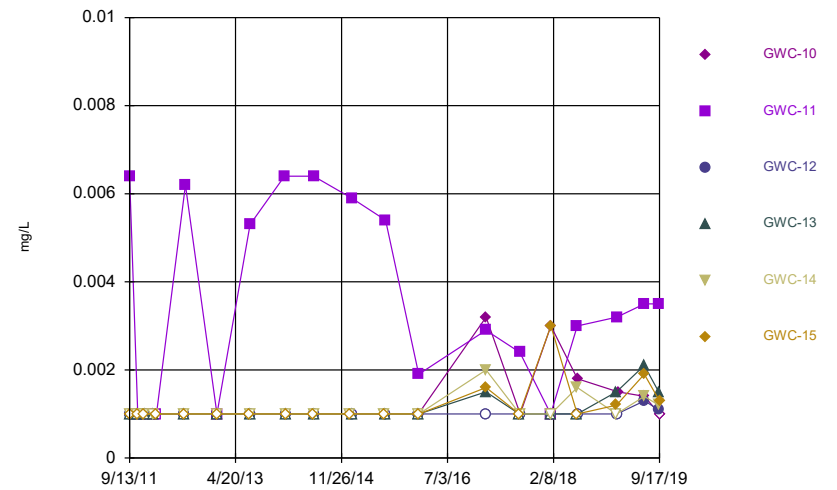
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



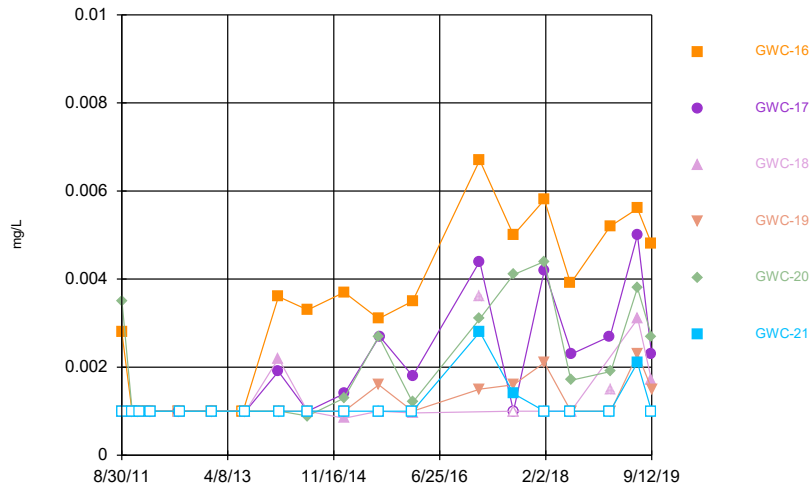
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



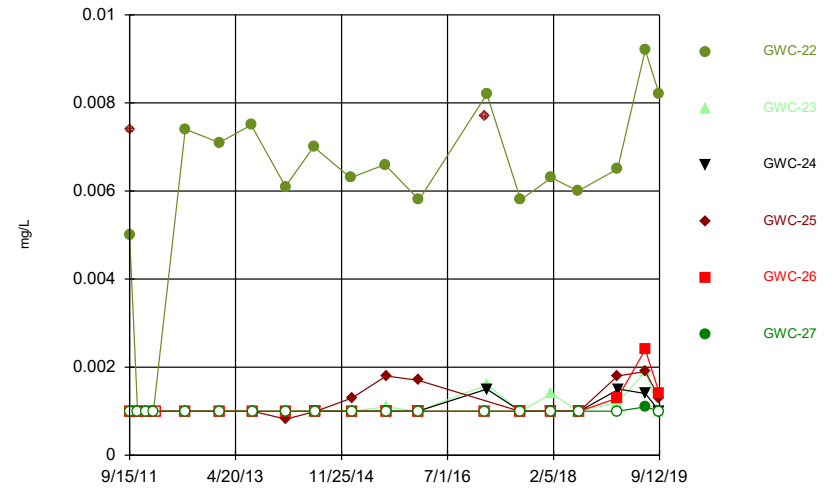
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



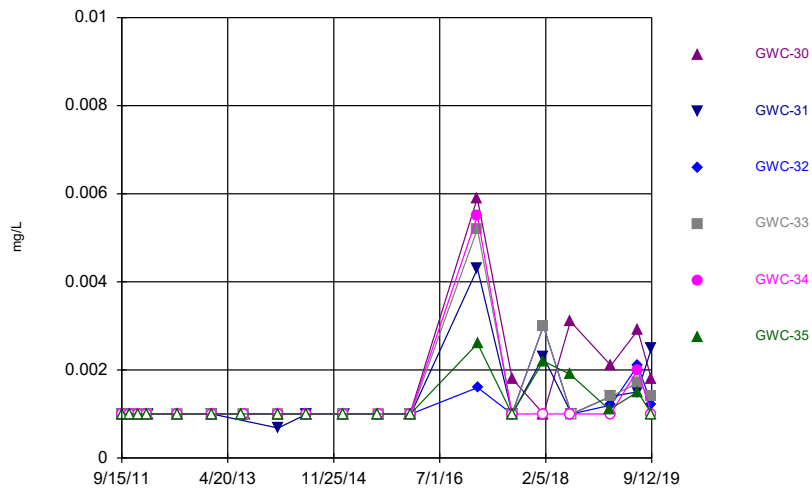
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



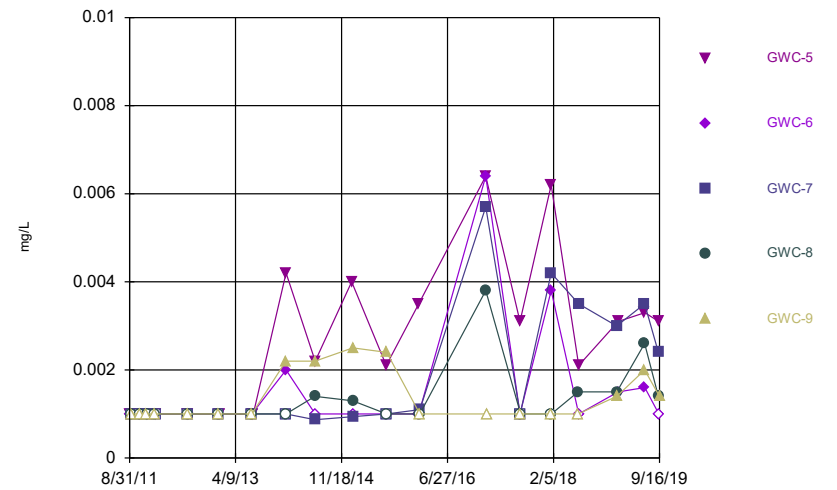
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



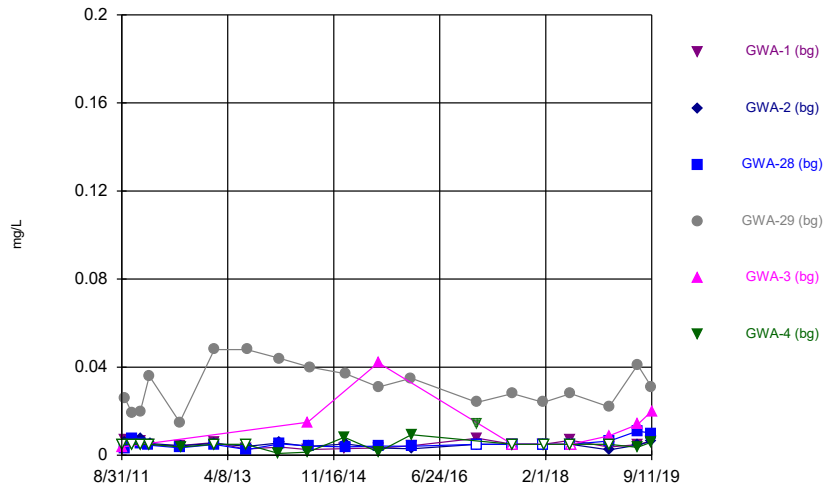
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Vanadium



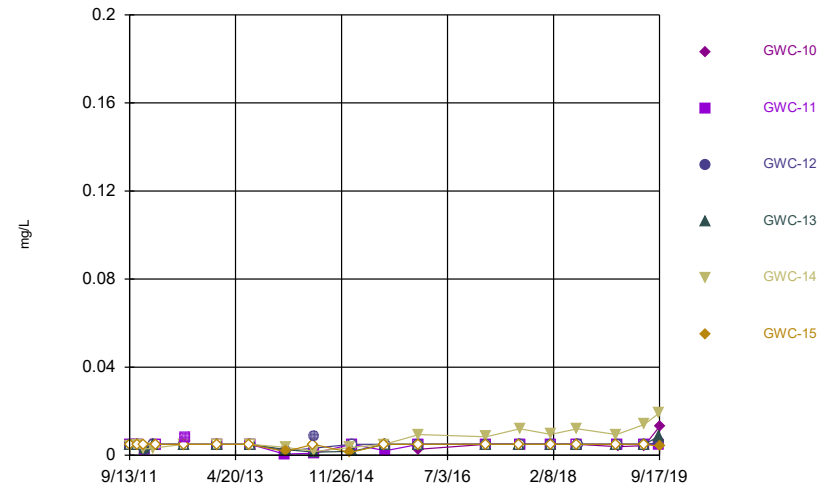
Time Series Analysis Run 11/13/2019 1:47 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



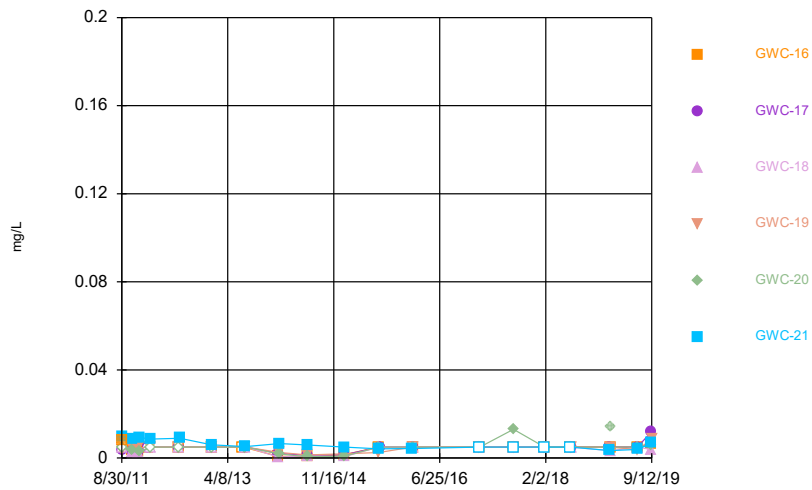
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



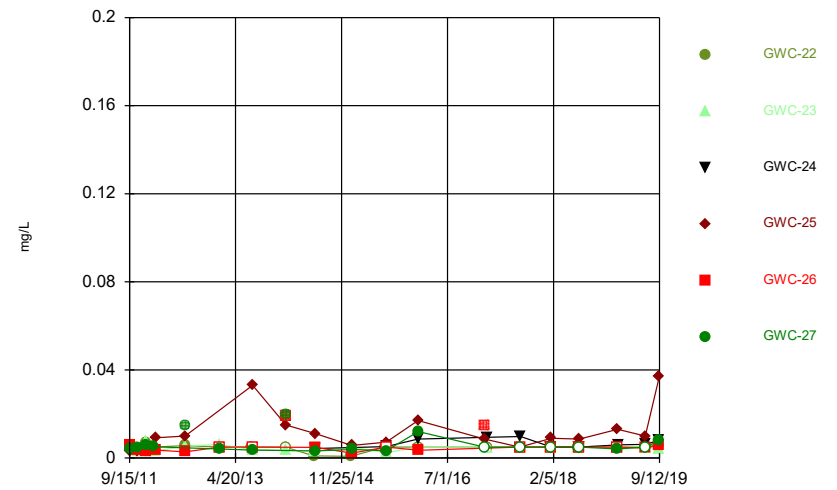
Time Series Analysis Run 11/13/2019 1:48 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



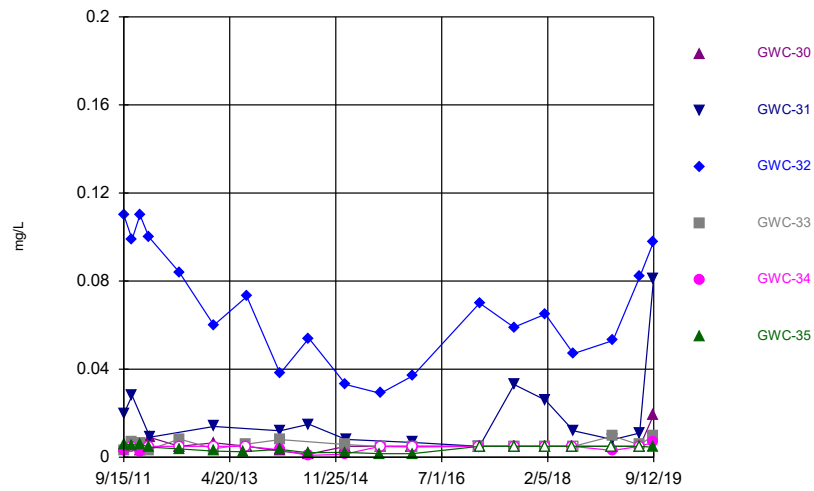
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



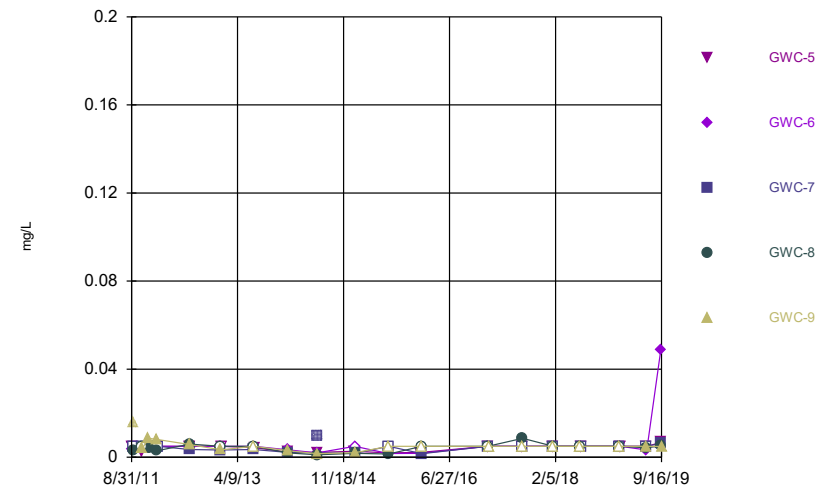
Time Series Analysis Run 11/13/2019 1:48 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



Time Series Analysis Run 11/13/2019 1:48 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc



Time Series Analysis Run 11/13/2019 1:48 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Landfill



## Trend Test Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 11/14/2019, 5:25 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-4 (bg)	0.008465	153	106	Yes	26	0	n/a	0.02	NP
Barium (mg/L)	GWC-14	0.02352	226	106	Yes	26	3.846	n/a	0.02	NP
Barium (mg/L)	GWC-18	0.0007179	122	106	Yes	26	0	n/a	0.02	NP
Barium (mg/L)	GWC-34	0.0002026	113	101	Yes	25	0	n/a	0.02	NP
Beryllium (mg/L)	GWC-32	0.00006114	128	106	Yes	26	26.92	n/a	0.02	NP
Cobalt (mg/L)	GWA-4 (bg)	0.0003712	113	106	Yes	26	7.692	n/a	0.02	NP
Cobalt (mg/L)	GWC-14	0.01268	116	101	Yes	25	12	n/a	0.02	NP
Copper (mg/L)	GWA-29 (bg)	-0.001013	-79	-68	Yes	19	15.79	n/a	0.02	NP
Nickel (mg/L)	GWA-29 (bg)	-0.0002317	-80	-68	Yes	19	15.79	n/a	0.02	NP
Nickel (mg/L)	GWC-14	0.001862	130	73	Yes	20	35	n/a	0.02	NP
Nickel (mg/L)	GWC-6	0.0003626	83	68	Yes	19	5.263	n/a	0.02	NP
pH (S.U.)	GWA-28 (bg)	-0.1264	-77	-53	Yes	16	0	n/a	0.02	NP
pH (S.U.)	GWA-3 (bg)	-0.3008	-28	-20	Yes	8	0	n/a	0.02	NP
Silver (mg/L)	GWA-29 (bg)	-0.0001873	-72	-68	Yes	19	31.58	n/a	0.02	NP
Sulfate (mg/L)	GWC-12	1.8	77	48	Yes	15	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-5	4.765	60	48	Yes	15	0	n/a	0.02	NP
Zinc (mg/L)	GWC-14	0.001293	98	68	Yes	19	15.79	n/a	0.02	NP

# Trend Test All Results

Plant Wansley    Client: Southern Company    Data: Wansley Landfill    Printed 11/14/2019, 5:25 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1 (bg)	-0.0002766	-88	-106	No	26	0	n/a	0.02	NP
Barium (mg/L)	GWA-2 (bg)	0	2	106	No	26	0	n/a	0.02	NP
Barium (mg/L)	GWA-28 (bg)	0	3	106	No	26	38.46	n/a	0.02	NP
Barium (mg/L)	GWA-29 (bg)	-0.00007535	-51	-95	No	24	12.5	n/a	0.02	NP
Barium (mg/L)	GWA-3 (bg)	0.000976	8	35	No	12	0	n/a	0.02	NP
<b>Barium (mg/L)</b>	<b>GWA-4 (bg)</b>	<b>0.008465</b>	<b>153</b>	<b>106</b>	<b>Yes</b>	<b>26</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
<b>Barium (mg/L)</b>	<b>GWC-14</b>	<b>0.02352</b>	<b>226</b>	<b>106</b>	<b>Yes</b>	<b>26</b>	<b>3.846</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Barium (mg/L)	GWC-16	0	6	106	No	26	0	n/a	0.02	NP
<b>Barium (mg/L)</b>	<b>GWC-18</b>	<b>0.0007179</b>	<b>122</b>	<b>106</b>	<b>Yes</b>	<b>26</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Barium (mg/L)	GWC-25	0.002252	75	101	No	25	0	n/a	0.02	NP
<b>Barium (mg/L)</b>	<b>GWC-34</b>	<b>0.0002026</b>	<b>113</b>	<b>101</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Beryllium (mg/L)	GWA-1 (bg)	0	-64	-106	No	26	84.62	n/a	0.02	NP
Beryllium (mg/L)	GWA-2 (bg)	0	-10	-106	No	26	88.46	n/a	0.02	NP
Beryllium (mg/L)	GWA-28 (bg)	-0.00002621	-106	-106	No	26	38.46	n/a	0.02	NP
Beryllium (mg/L)	GWA-29 (bg)	0.000041	34	95	No	24	8.333	n/a	0.02	NP
Beryllium (mg/L)	GWA-3 (bg)	0	-11	-35	No	12	91.67	n/a	0.02	NP
Beryllium (mg/L)	GWA-4 (bg)	0	0	106	No	26	100	n/a	0.02	NP
<b>Beryllium (mg/L)</b>	<b>GWC-32</b>	<b>0.00006114</b>	<b>128</b>	<b>106</b>	<b>Yes</b>	<b>26</b>	<b>26.92</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Boron (mg/L)	GWA-1 (bg)	0	-12	-48	No	15	93.33	n/a	0.02	NP
Boron (mg/L)	GWA-2 (bg)	0	0	48	No	15	100	n/a	0.02	NP
Boron (mg/L)	GWA-28 (bg)	0	0	48	No	15	100	n/a	0.02	NP
Boron (mg/L)	GWA-29 (bg)	0	3	44	No	14	92.86	n/a	0.02	NP
Boron (mg/L)	GWA-3 (bg)	0	0	23	No	9	100	n/a	0.02	NP
Boron (mg/L)	GWA-4 (bg)	0	0	48	No	15	100	n/a	0.02	NP
Boron (mg/L)	GWC-14	0.1259	30	48	No	15	0	n/a	0.02	NP
Boron (mg/L)	GWC-9	-0.01069	-17	-48	No	15	0	n/a	0.02	NP
Chloride (mg/L)	GWA-1 (bg)	-0.03248	-33	-48	No	15	0	n/a	0.02	NP
Chloride (mg/L)	GWA-2 (bg)	0.2086	34	48	No	15	0	n/a	0.02	NP
Chloride (mg/L)	GWA-28 (bg)	-0.04254	-39	-48	No	15	0	n/a	0.02	NP
Chloride (mg/L)	GWA-29 (bg)	-0.0634	-21	-44	No	14	0	n/a	0.02	NP
Chloride (mg/L)	GWA-3 (bg)	3.433	10	20	No	8	12.5	n/a	0.02	NP
Chloride (mg/L)	GWA-4 (bg)	0	-5	-48	No	15	0	n/a	0.02	NP
Chloride (mg/L)	GWC-14	10.16	35	48	No	15	0	n/a	0.02	NP
Chloride (mg/L)	GWC-9	-3.318	-25	-48	No	15	0	n/a	0.02	NP
Chromium (mg/L)	GWA-1 (bg)	0	2	106	No	26	84.62	n/a	0.02	NP
Chromium (mg/L)	GWA-2 (bg)	0	-90	-106	No	26	80.77	n/a	0.02	NP
Chromium (mg/L)	GWA-28 (bg)	0	-43	-106	No	26	76.92	n/a	0.02	NP
Chromium (mg/L)	GWA-29 (bg)	0	-17	-95	No	24	75	n/a	0.02	NP
Chromium (mg/L)	GWA-3 (bg)	0	-2	-35	No	12	75	n/a	0.02	NP
Chromium (mg/L)	GWA-4 (bg)	0	39	106	No	26	84.62	n/a	0.02	NP
Chromium (mg/L)	GWC-13	0	4	106	No	26	84.62	n/a	0.02	NP
Chromium (mg/L)	GWC-16	0.0000197	41	89	No	23	0	n/a	0.02	NP
Chromium (mg/L)	GWC-20	0	-11	-106	No	26	80.77	n/a	0.02	NP
Chromium (mg/L)	GWC-26	0	49	106	No	26	84.62	n/a	0.02	NP
Chromium (mg/L)	GWC-34	0	-20	-106	No	26	88.46	n/a	0.02	NP
Chromium (mg/L)	GWC-35	0	-20	-106	No	26	88.46	n/a	0.02	NP
Chromium (mg/L)	GWC-5	0	15	101	No	25	76	n/a	0.02	NP
Chromium (mg/L)	GWC-6	0	25	101	No	25	88	n/a	0.02	NP
Cobalt (mg/L)	GWA-1 (bg)	0	-84	-106	No	26	80.77	n/a	0.02	NP
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# Trend Test All Results

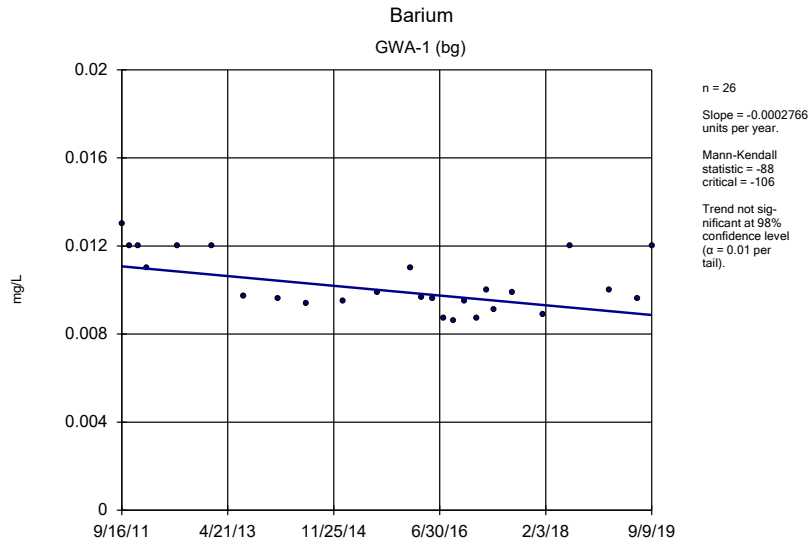
Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 11/14/2019, 5:25 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	GWA-28 (bg)	0	0	106	No	26	100	n/a	0.02	NP
Cobalt (mg/L)	GWA-29 (bg)	0	-45	-95	No	24	91.67	n/a	0.02	NP
Cobalt (mg/L)	GWA-3 (bg)	-0.00006108	-23	-35	No	12	50	n/a	0.02	NP
<b>Cobalt (mg/L)</b>	<b>GWA-4 (bg)</b>	<b>0.0003712</b>	<b>113</b>	<b>106</b>	<b>Yes</b>	<b>26</b>	<b>7.692</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GWC-14</b>	<b>0.01268</b>	<b>116</b>	<b>101</b>	<b>Yes</b>	<b>25</b>	<b>12</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Copper (mg/L)	GWA-1 (bg)	0	0	68	No	19	100	n/a	0.02	NP
Copper (mg/L)	GWA-2 (bg)	0	-31	-68	No	19	78.95	n/a	0.02	NP
Copper (mg/L)	GWA-28 (bg)	0	4	68	No	19	94.74	n/a	0.02	NP
<b>Copper (mg/L)</b>	<b>GWA-29 (bg)</b>	<b>-0.001013</b>	<b>-79</b>	<b>-68</b>	<b>Yes</b>	<b>19</b>	<b>15.79</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Copper (mg/L)	GWA-3 (bg)	0	2	20	No	8	62.5	n/a	0.02	NP
Copper (mg/L)	GWA-4 (bg)	0	0	68	No	19	100	n/a	0.02	NP
Copper (mg/L)	GWC-25	0	47	63	No	18	61.11	n/a	0.02	NP
Copper (mg/L)	GWC-31	0	2	48	No	15	46.67	n/a	0.02	NP
Mercury (mg/L)	GWA-1 (bg)	0	-13	-106	No	26	92.31	n/a	0.02	NP
Mercury (mg/L)	GWA-2 (bg)	0	-13	-106	No	26	92.31	n/a	0.02	NP
Mercury (mg/L)	GWA-28 (bg)	0	-13	-106	No	26	92.31	n/a	0.02	NP
Mercury (mg/L)	GWA-29 (bg)	0	23	95	No	24	95.83	n/a	0.02	NP
Mercury (mg/L)	GWA-3 (bg)	0	1	35	No	12	91.67	n/a	0.02	NP
Mercury (mg/L)	GWA-4 (bg)	0	-13	-106	No	26	92.31	n/a	0.02	NP
Mercury (mg/L)	GWC-8	0	16	106	No	26	84.62	n/a	0.02	NP
Nickel (mg/L)	GWA-1 (bg)	0	-45	-68	No	19	84.21	n/a	0.02	NP
Nickel (mg/L)	GWA-2 (bg)	0	-50	-68	No	19	57.89	n/a	0.02	NP
Nickel (mg/L)	GWA-28 (bg)	0	-46	-68	No	19	78.95	n/a	0.02	NP
<b>Nickel (mg/L)</b>	<b>GWA-29 (bg)</b>	<b>-0.0002317</b>	<b>-80</b>	<b>-68</b>	<b>Yes</b>	<b>19</b>	<b>15.79</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Nickel (mg/L)	GWA-3 (bg)	-0.0002325	-13	-20	No	8	37.5	n/a	0.02	NP
Nickel (mg/L)	GWA-4 (bg)	0	-45	-53	No	16	75	n/a	0.02	NP
<b>Nickel (mg/L)</b>	<b>GWC-14</b>	<b>0.001862</b>	<b>130</b>	<b>73</b>	<b>Yes</b>	<b>20</b>	<b>35</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Nickel (mg/L)	GWC-25	0.0002479	26	63	No	18	27.78	n/a	0.02	NP
<b>Nickel (mg/L)</b>	<b>GWC-6</b>	<b>0.0003626</b>	<b>83</b>	<b>68</b>	<b>Yes</b>	<b>19</b>	<b>5.263</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
pH (S.U.)	GWA-1 (bg)	-0.03322	-19	-53	No	16	0	n/a	0.02	NP
pH (S.U.)	GWA-2 (bg)	-0.009276	-7	-48	No	15	0	n/a	0.02	NP
<b>pH (S.U.)</b>	<b>GWA-28 (bg)</b>	<b>-0.1264</b>	<b>-77</b>	<b>-53</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
pH (S.U.)	GWA-29 (bg)	-0.02	-11	-44	No	14	0	n/a	0.02	NP
<b>pH (S.U.)</b>	<b>GWA-3 (bg)</b>	<b>-0.3008</b>	<b>-28</b>	<b>-20</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
pH (S.U.)	GWA-4 (bg)	-0.07111	-32	-44	No	14	0	n/a	0.02	NP
pH (S.U.)	GWC-10	-0.2138	-32	-44	No	14	0	n/a	0.02	NP
Silver (mg/L)	GWA-1 (bg)	0	0	68	No	19	100	n/a	0.02	NP
Silver (mg/L)	GWA-2 (bg)	0	0	68	No	19	100	n/a	0.02	NP
Silver (mg/L)	GWA-28 (bg)	0	0	68	No	19	100	n/a	0.02	NP
<b>Silver (mg/L)</b>	<b>GWA-29 (bg)</b>	<b>-0.0001873</b>	<b>-72</b>	<b>-68</b>	<b>Yes</b>	<b>19</b>	<b>31.58</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Silver (mg/L)	GWA-3 (bg)	0	0	20	No	8	100	n/a	0.02	NP
Silver (mg/L)	GWA-4 (bg)	0	0	68	No	19	100	n/a	0.02	NP
Silver (mg/L)	GWC-31	0	-18	-44	No	14	50	n/a	0.02	NP
Sulfate (mg/L)	GWA-1 (bg)	0	0	48	No	15	93.33	n/a	0.02	NP
Sulfate (mg/L)	GWA-2 (bg)	0.07402	18	48	No	15	0	n/a	0.02	NP
Sulfate (mg/L)	GWA-28 (bg)	0.08177	23	48	No	15	6.667	n/a	0.02	NP
Sulfate (mg/L)	GWA-29 (bg)	-0.4243	-8	-44	No	14	0	n/a	0.02	NP
Sulfate (mg/L)	GWA-3 (bg)	-41.97	-16	-20	No	8	12.5	n/a	0.02	NP
Sulfate (mg/L)	GWA-4 (bg)	0.1344	22	48	No	15	0	n/a	0.02	NP
<b>Sulfate (mg/L)</b>	<b>GWC-12</b>	<b>1.8</b>	<b>77</b>	<b>48</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>

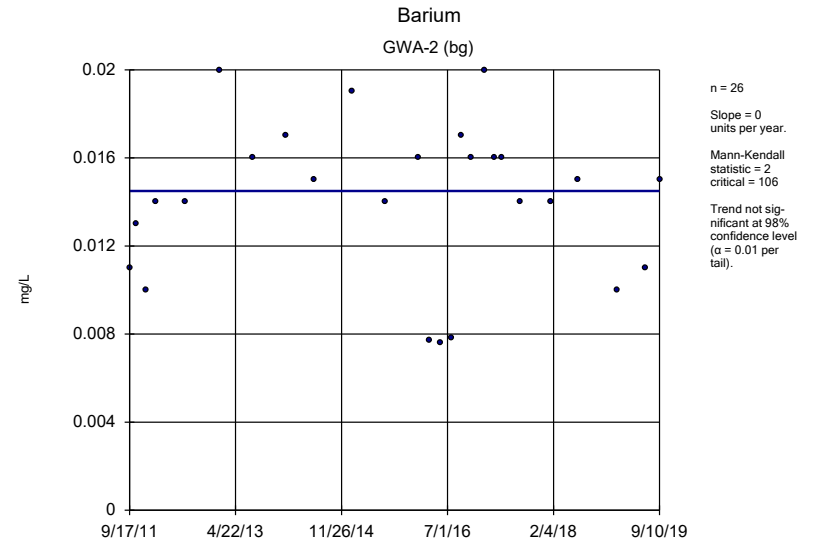
# Trend Test All Results

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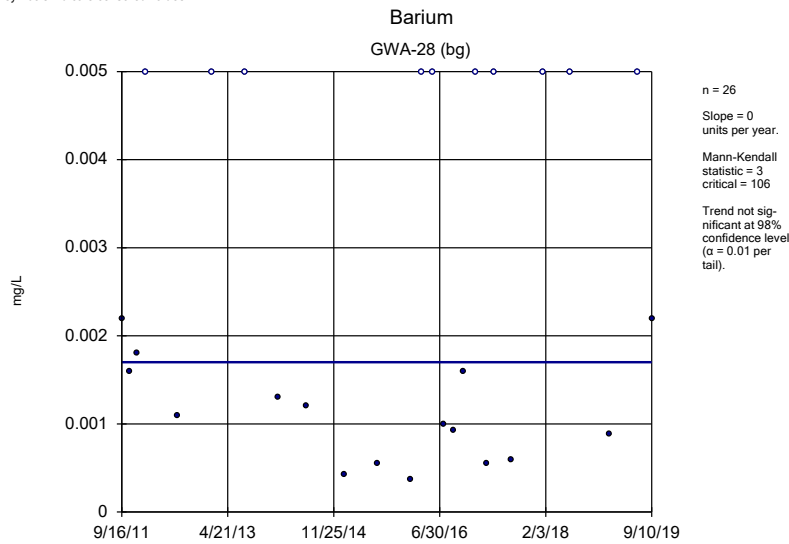
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
<b>Sulfate (mg/L)</b>	<b>GWC-5</b>	<b>4.765</b>	<b>60</b>	<b>48</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Zinc (mg/L)	GWA-1 (bg)	0.00004601	7	68	No	19	10.53	n/a	0.02	NP
Zinc (mg/L)	GWA-2 (bg)	-0.00006759	-8	-68	No	19	21.05	n/a	0.02	NP
Zinc (mg/L)	GWA-28 (bg)	0.0006745	58	68	No	19	21.05	n/a	0.02	NP
Zinc (mg/L)	GWA-29 (bg)	-0.0002519	-5	-68	No	19	0	n/a	0.02	NP
Zinc (mg/L)	GWA-3 (bg)	0.0003451	3	20	No	8	25	n/a	0.02	NP
Zinc (mg/L)	GWA-4 (bg)	0	10	63	No	18	55.56	n/a	0.02	NP
Zinc (mg/L)	GWC-12	0	30	63	No	18	83.33	n/a	0.02	NP
Zinc (mg/L)	GWC-13	0	30	68	No	19	73.68	n/a	0.02	NP
<b>Zinc (mg/L)</b>	<b>GWC-14</b>	<b>0.001293</b>	<b>98</b>	<b>68</b>	<b>Yes</b>	<b>19</b>	<b>15.79</b>	<b>n/a</b>	<b>0.02</b>	<b>NP</b>
Zinc (mg/L)	GWC-16	0	47	63	No	18	66.67	n/a	0.02	NP
Zinc (mg/L)	GWC-17	0	53	68	No	19	63.16	n/a	0.02	NP
Zinc (mg/L)	GWC-25	0.0009746	58	63	No	18	5.556	n/a	0.02	NP
Zinc (mg/L)	GWC-30	0	5	68	No	19	63.16	n/a	0.02	NP
Zinc (mg/L)	GWC-31	-8.3e-11	-1	-48	No	15	6.667	n/a	0.02	NP
Zinc (mg/L)	GWC-34	0	35	68	No	19	63.16	n/a	0.02	NP
Zinc (mg/L)	GWC-5	0	23	68	No	19	57.89	n/a	0.02	NP
Zinc (mg/L)	GWC-6	0	28	68	No	19	52.63	n/a	0.02	NP
Zinc (mg/L)	GWC-7	0	21	63	No	18	61.11	n/a	0.02	NP



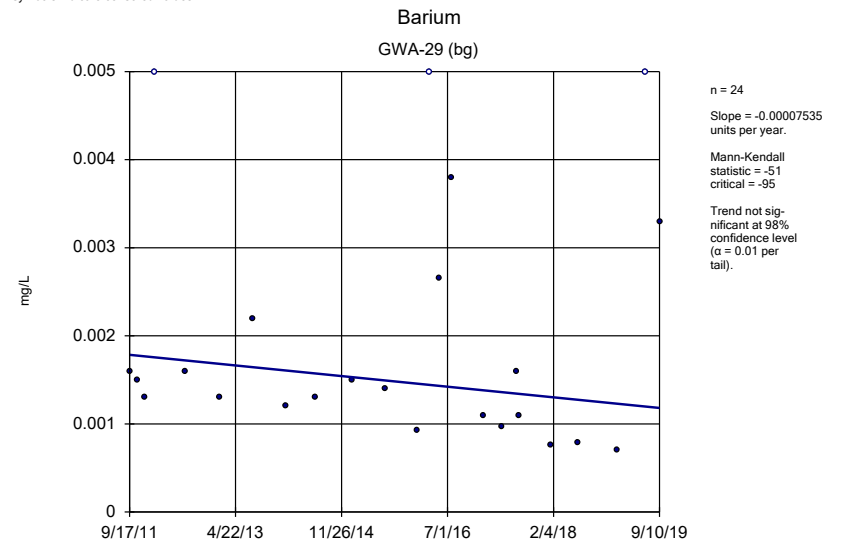
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Plant Wansley Client: Southern Company Data: Wansley Landfill



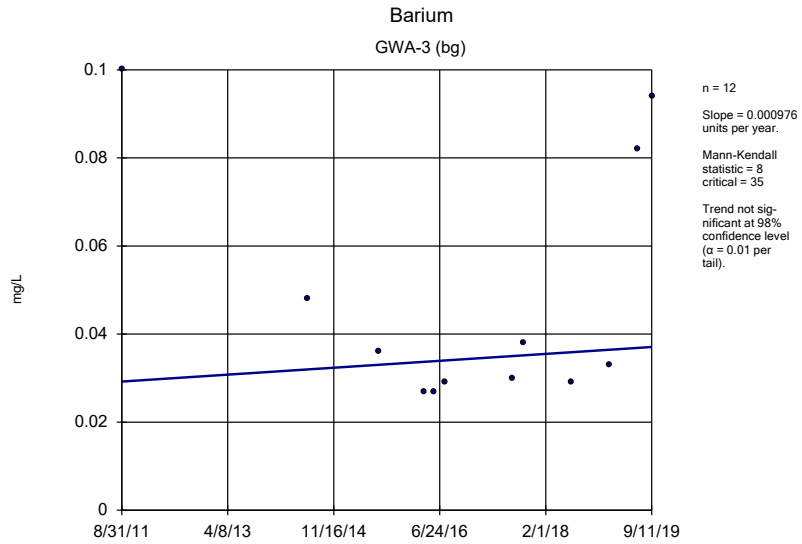
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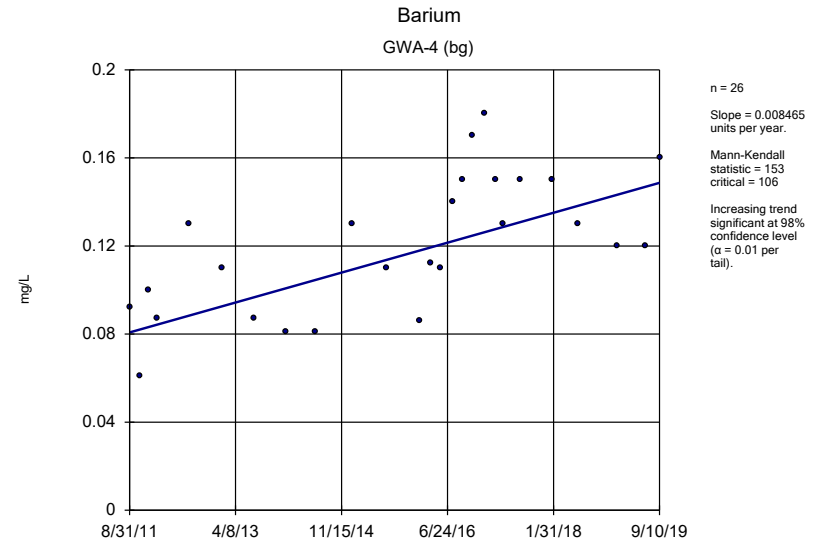
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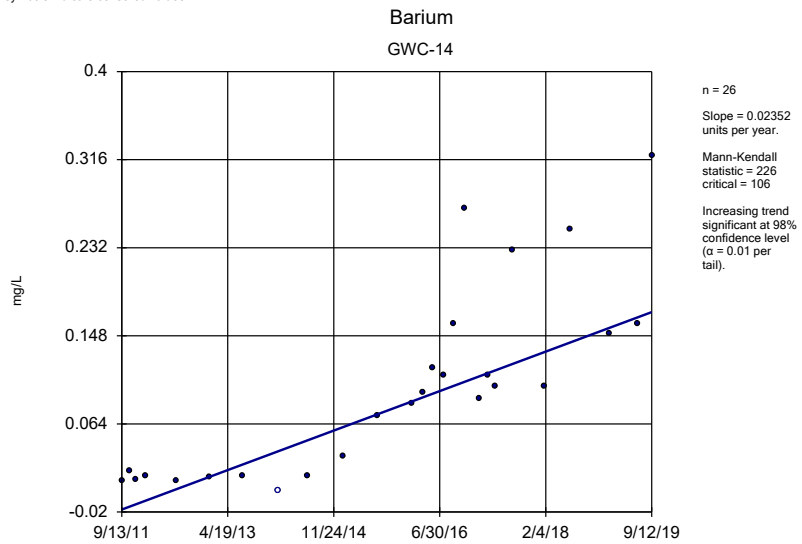
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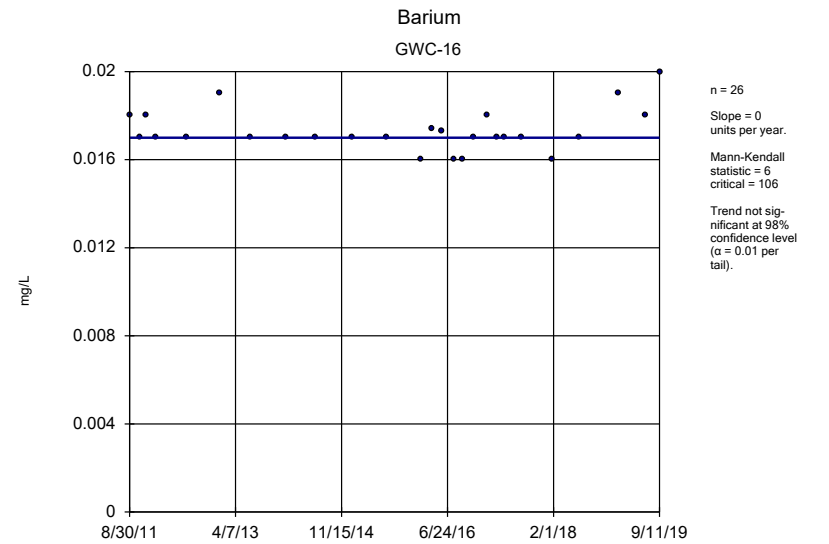
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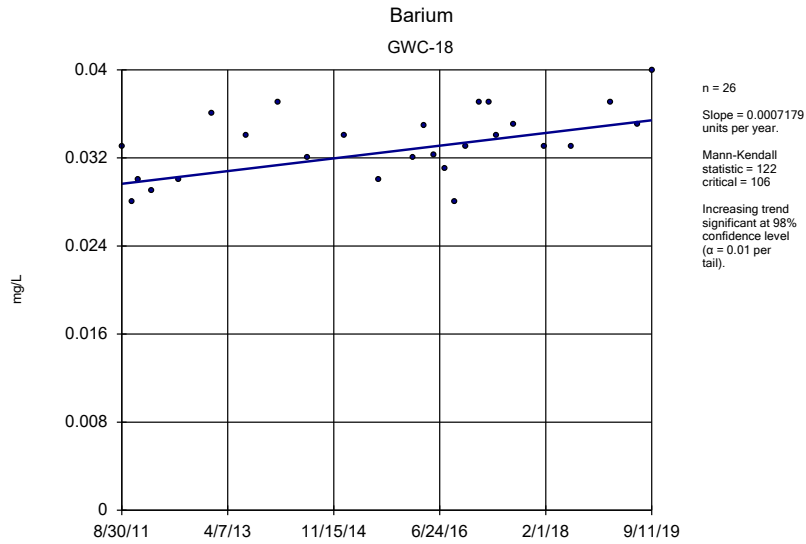
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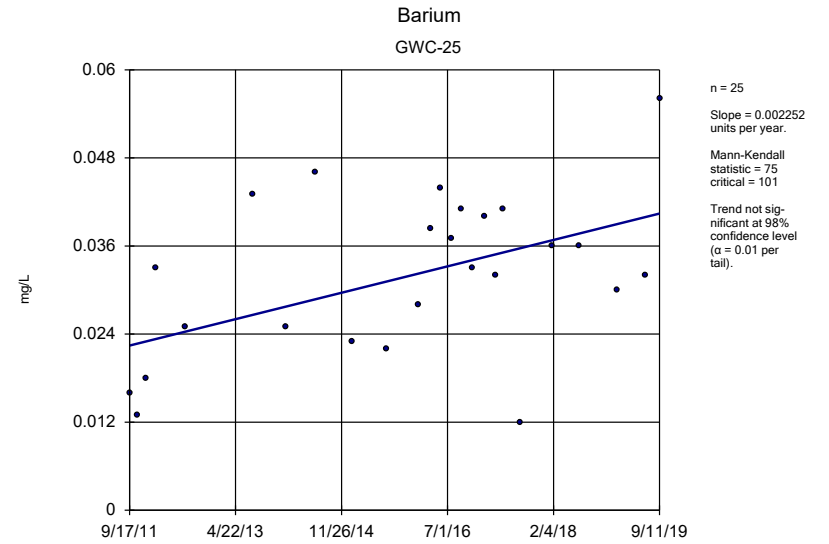
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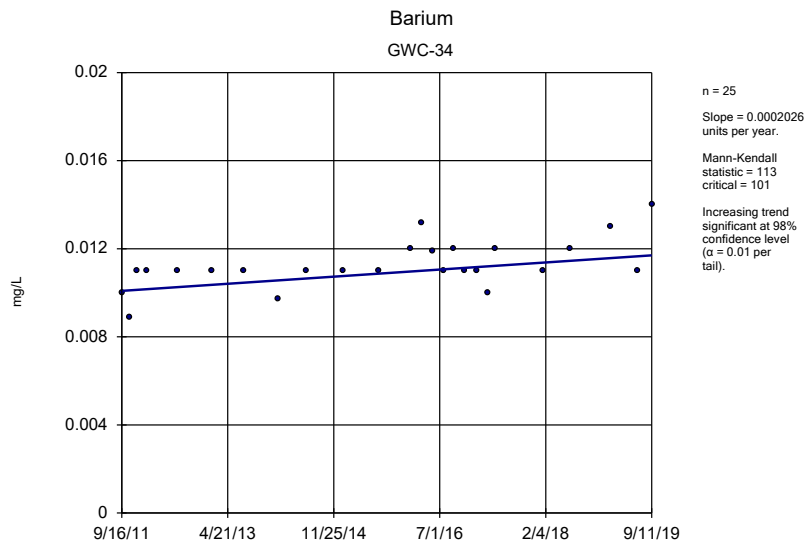
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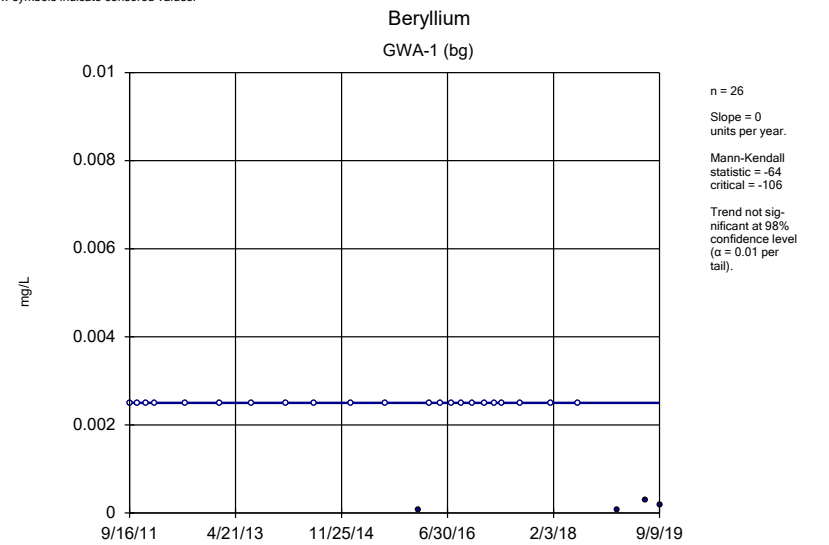
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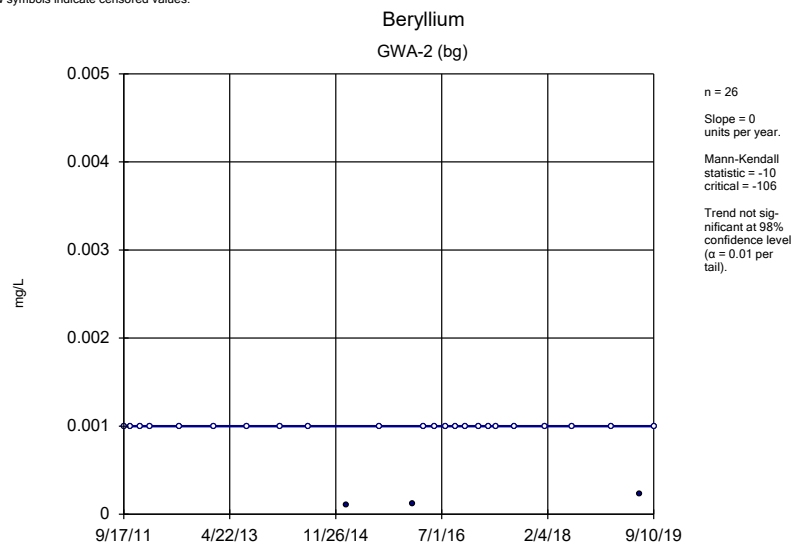
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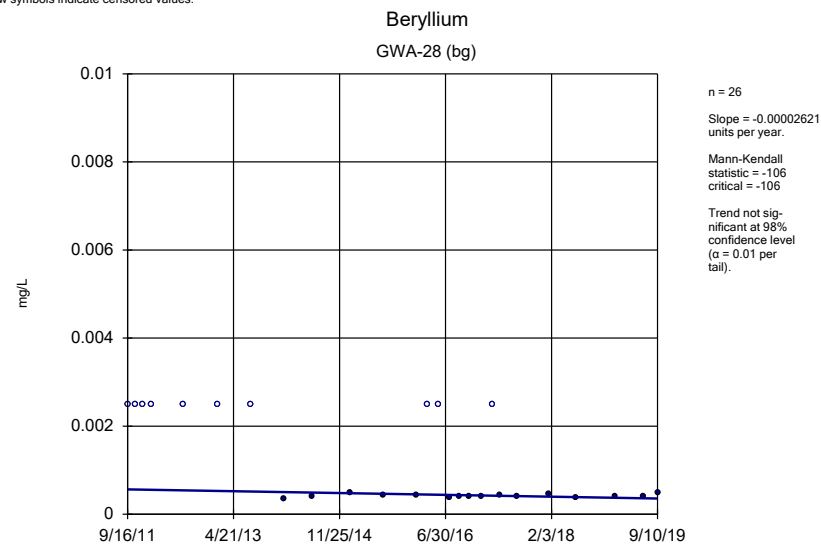
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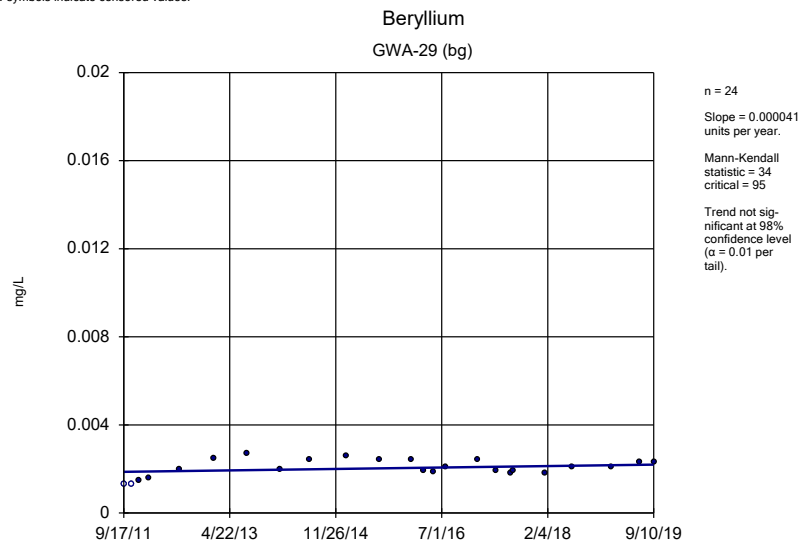
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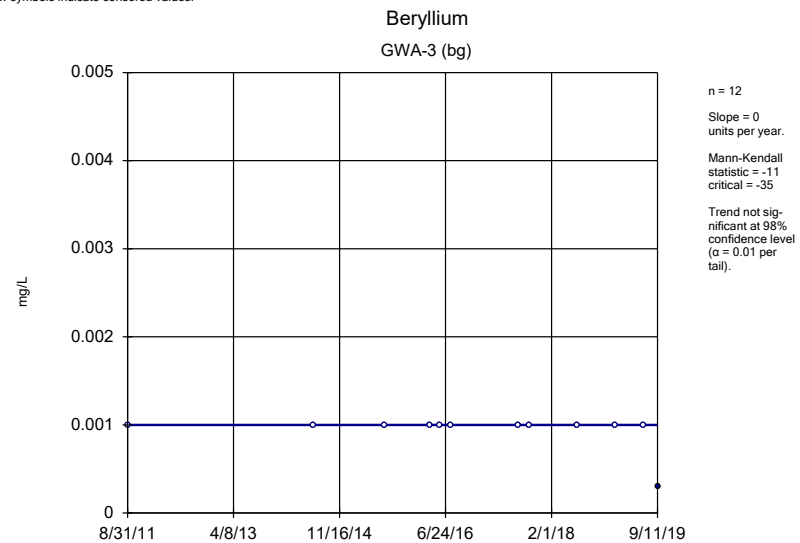
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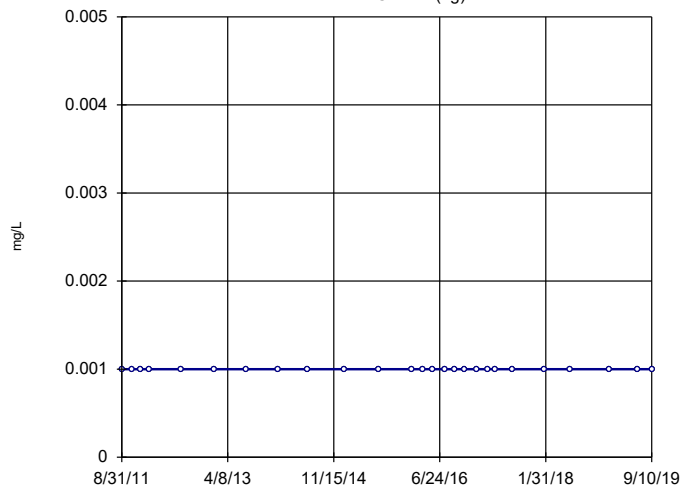
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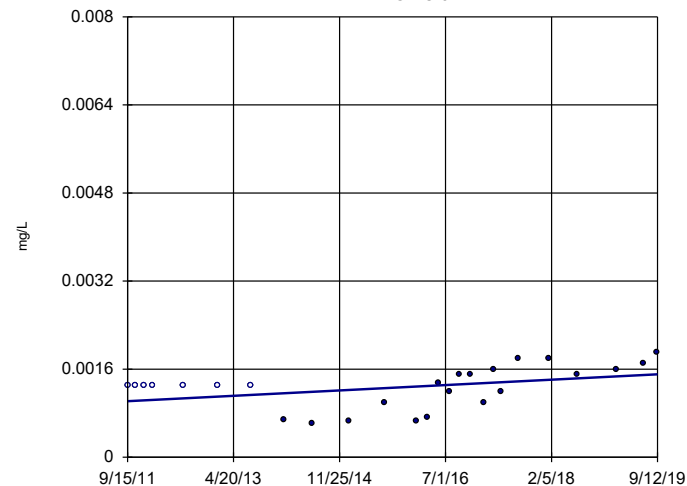


### Beryllium GWA-4 (bg)



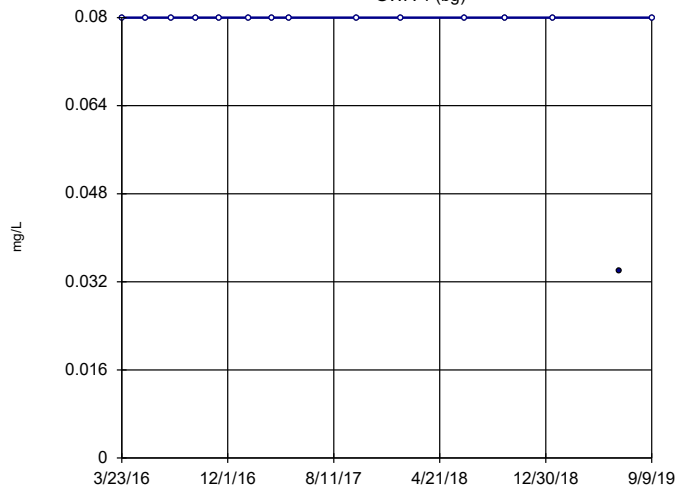
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### Beryllium GWC-32



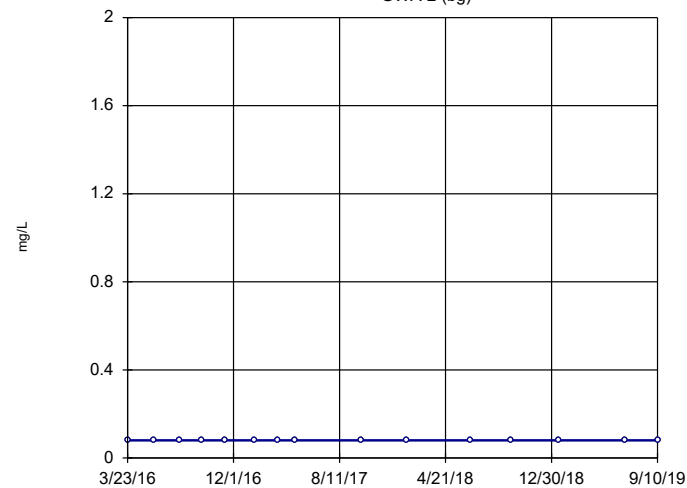
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### Boron GWA-1 (bg)

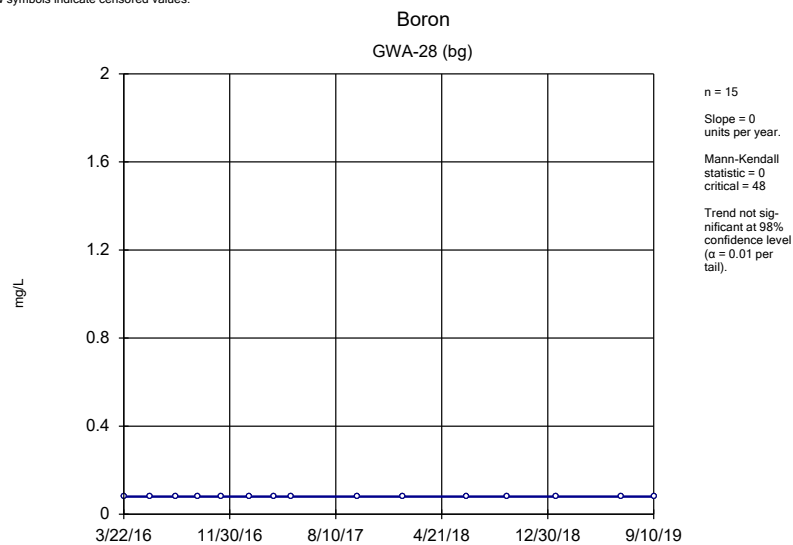


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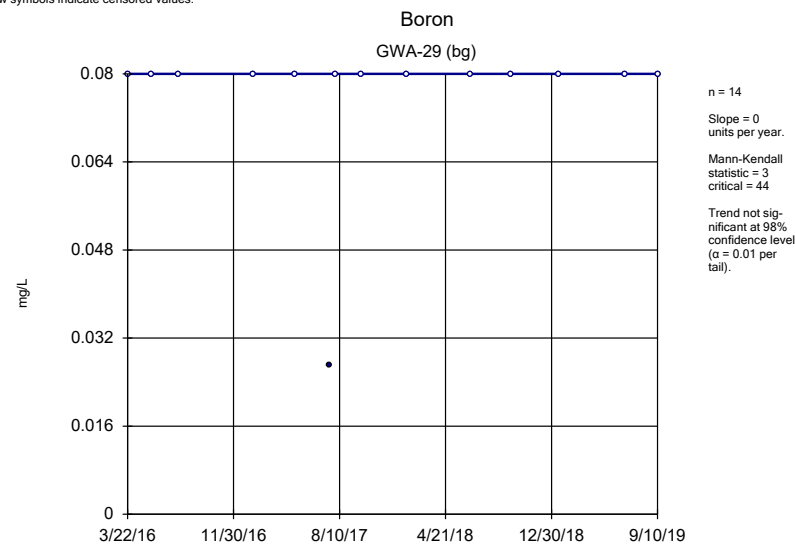
### Boron GWA-2 (bg)



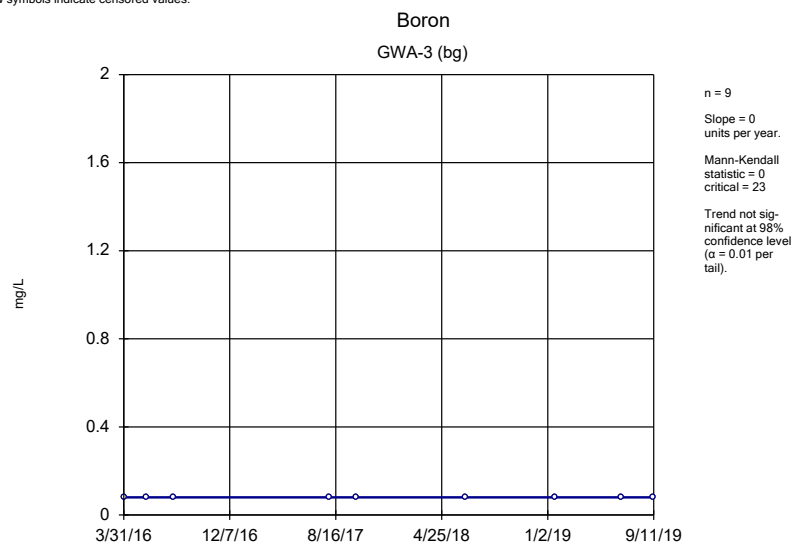
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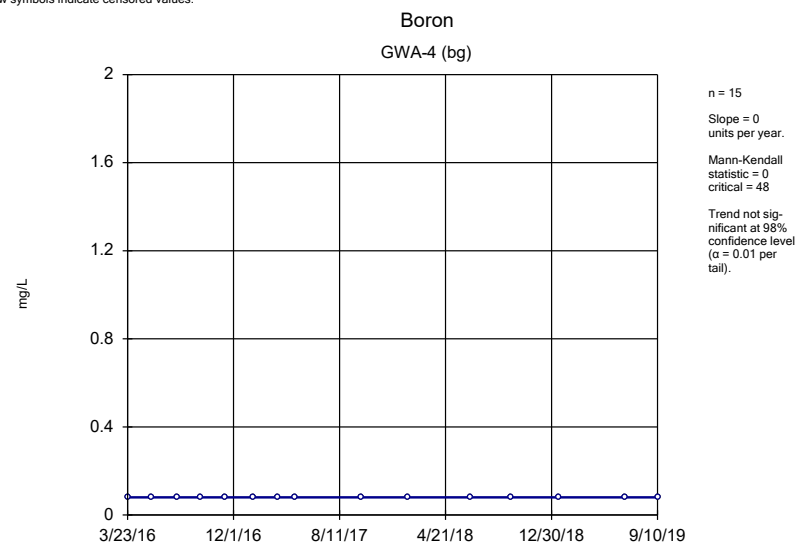
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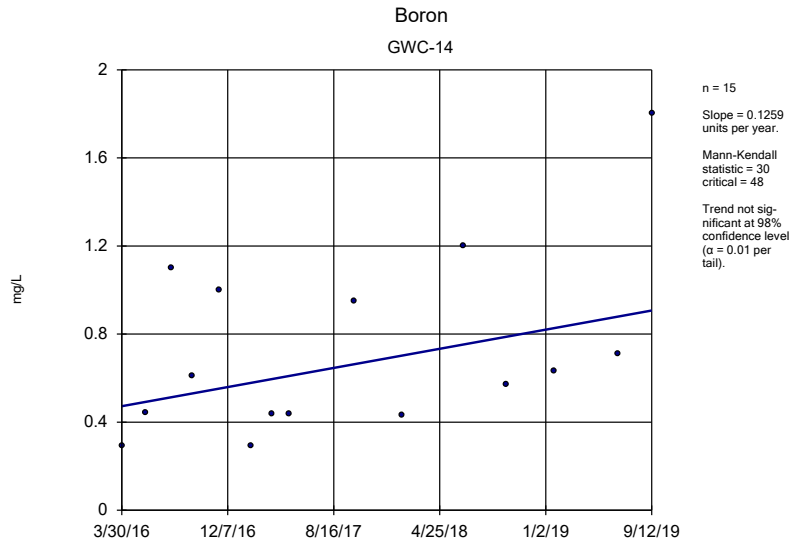
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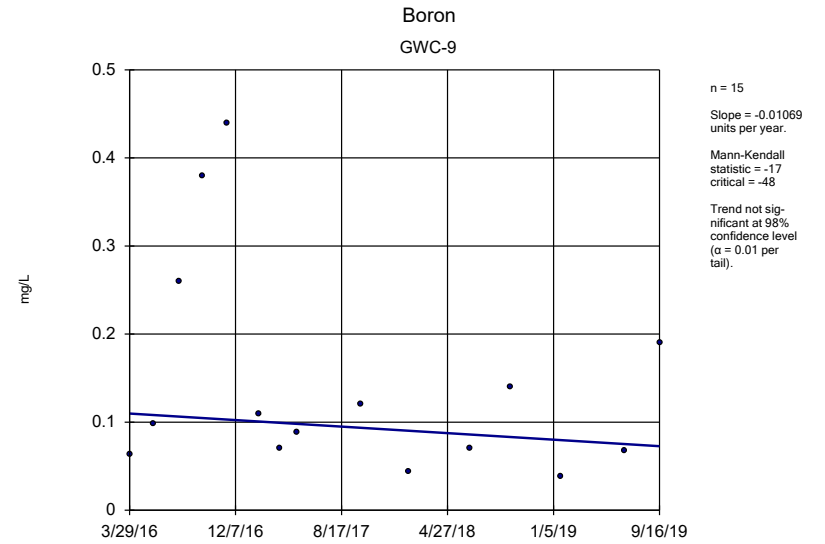
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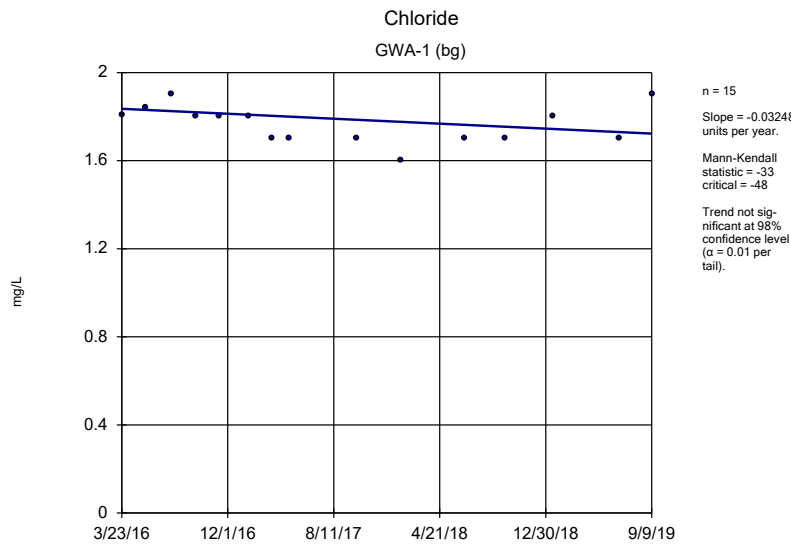
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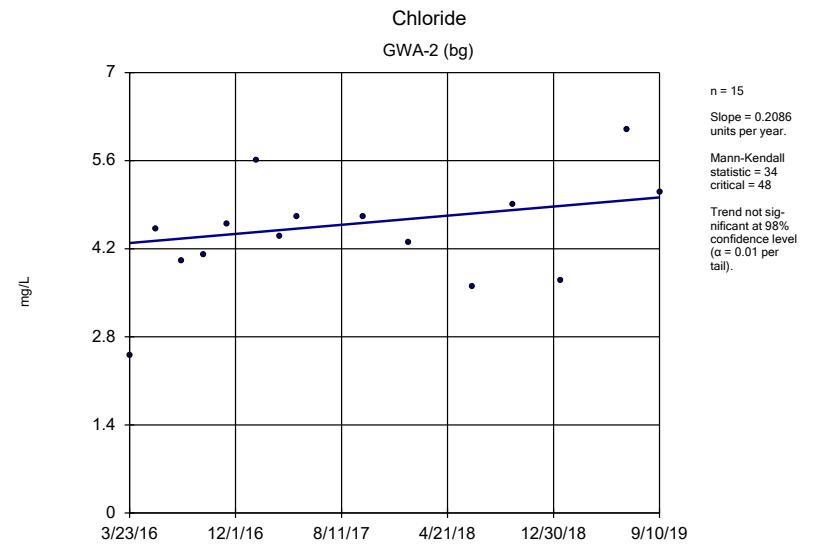
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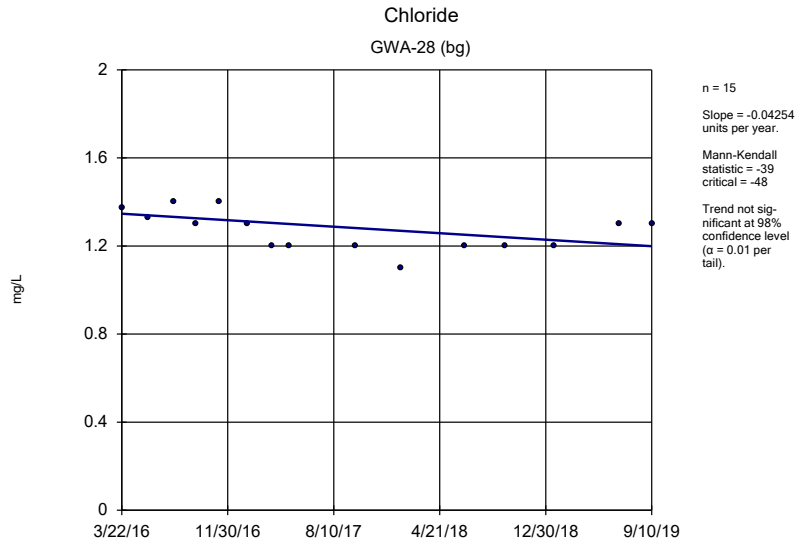
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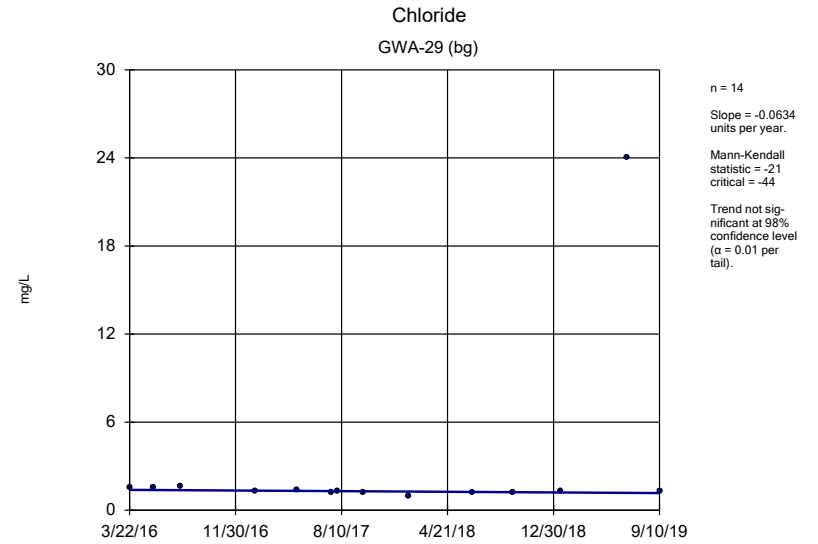
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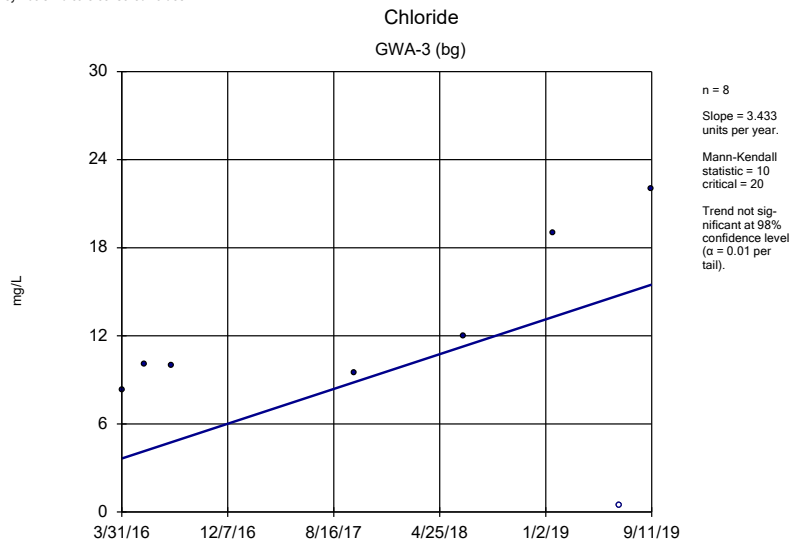
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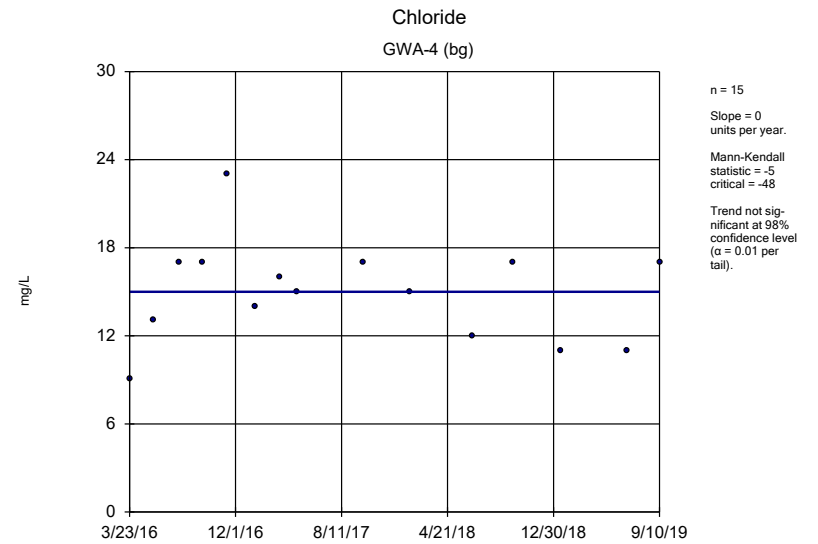
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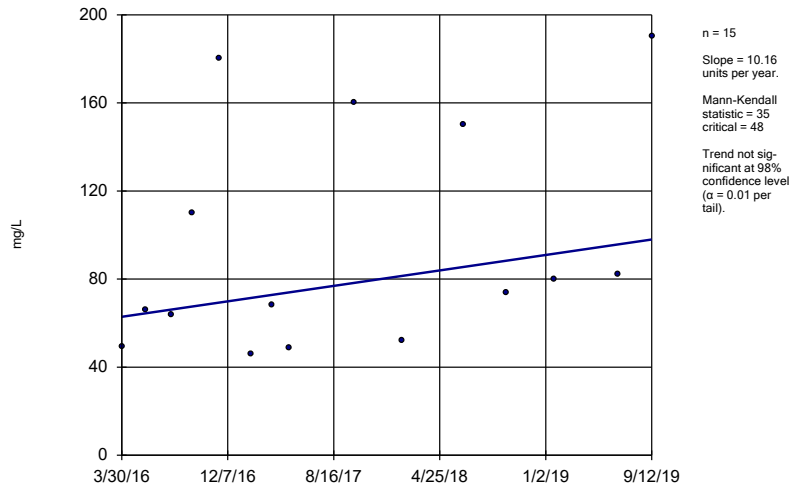


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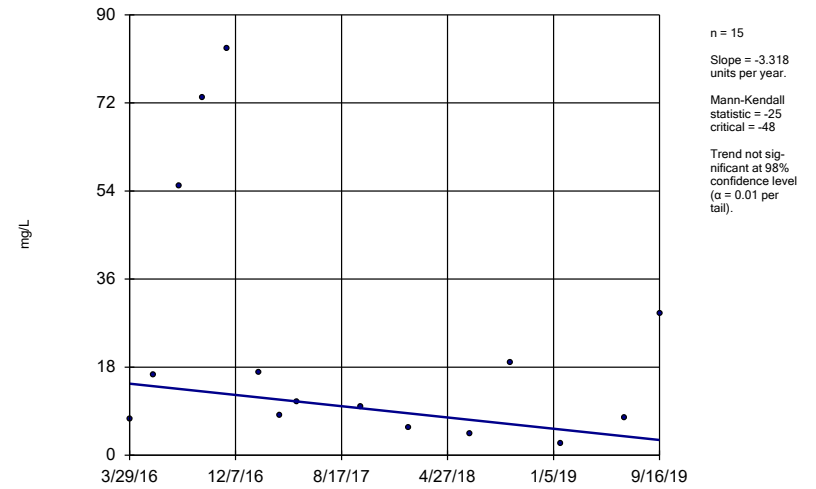
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### Chloride GWC-14



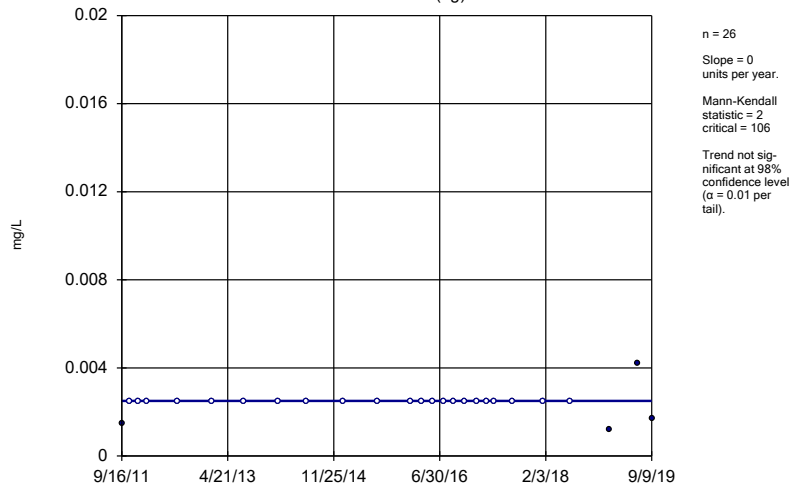
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### Chloride GWC-9



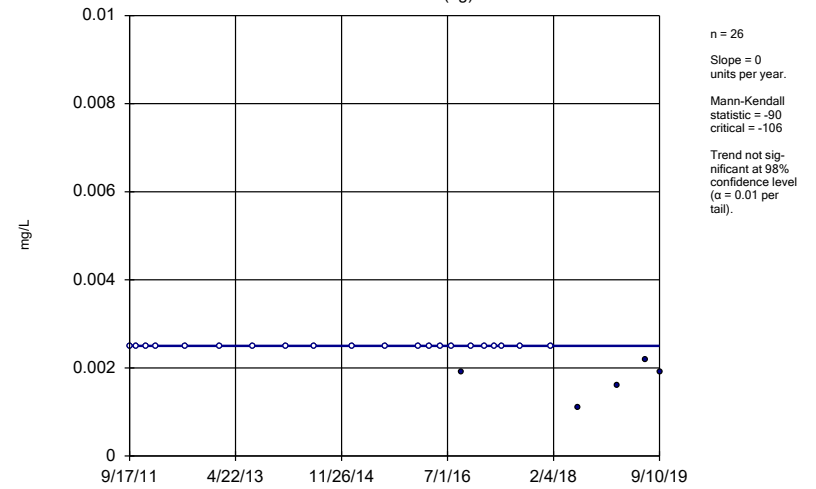
Sen's Slope Estimator Analysis Run 11/14/2019 5:19 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWA-1 (bg)

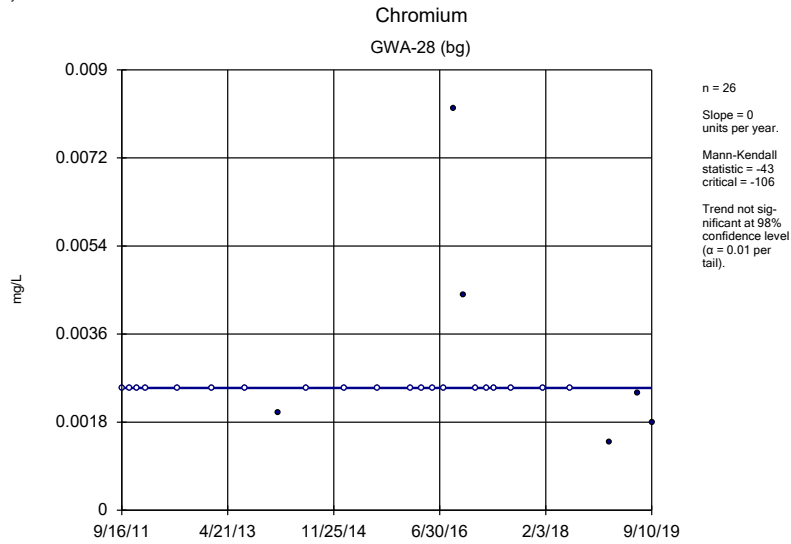


Sen's Slope Estimator Analysis Run 11/14/2019 5:19 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

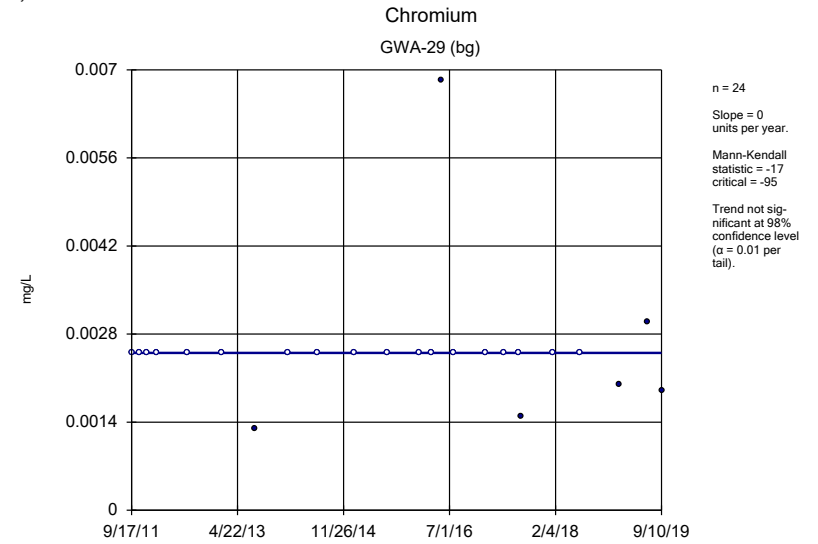
### Chromium GWA-2 (bg)



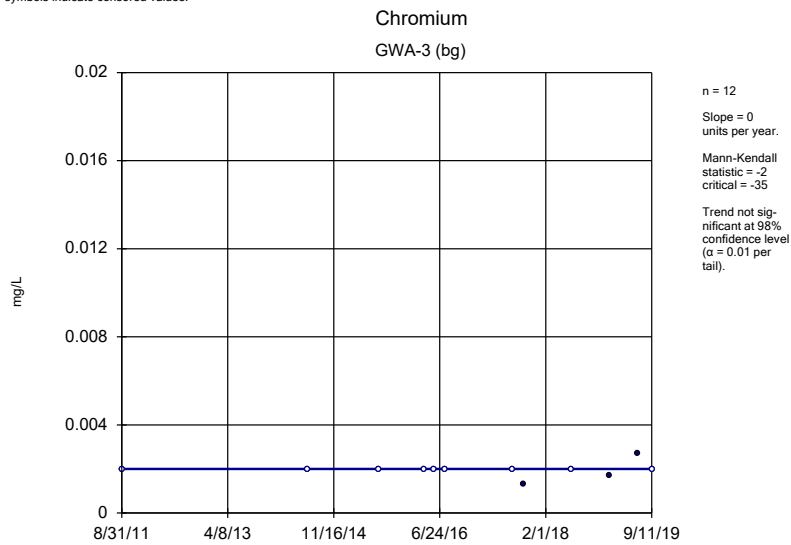
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Plant Wansley Client: Southern Company Data: Wansley Landfill



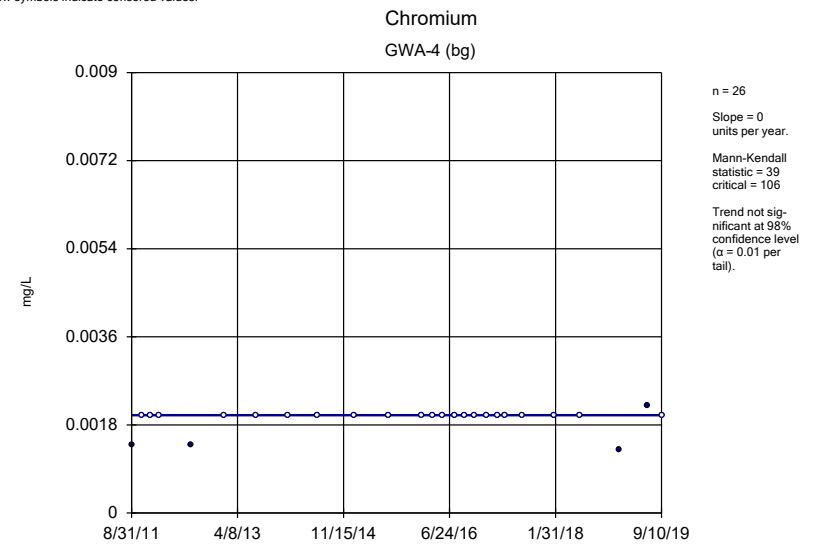
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Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 11/14/2019 5:19 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

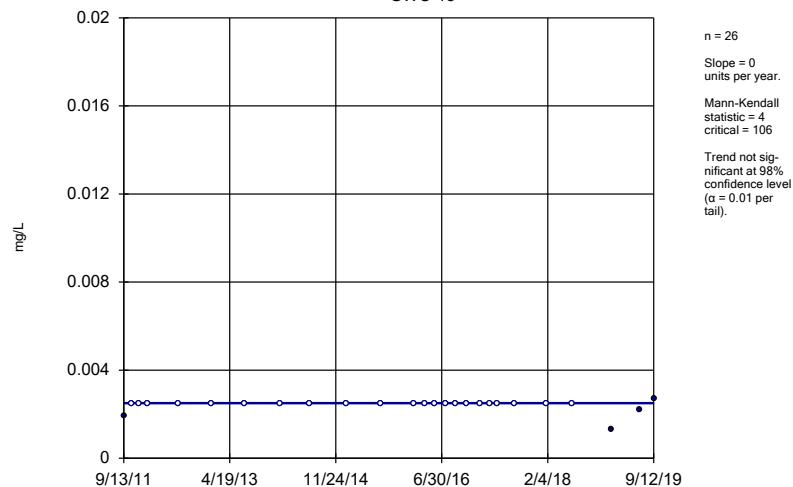


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Plant Wansley Client: Southern Company Data: Wansley Landfill



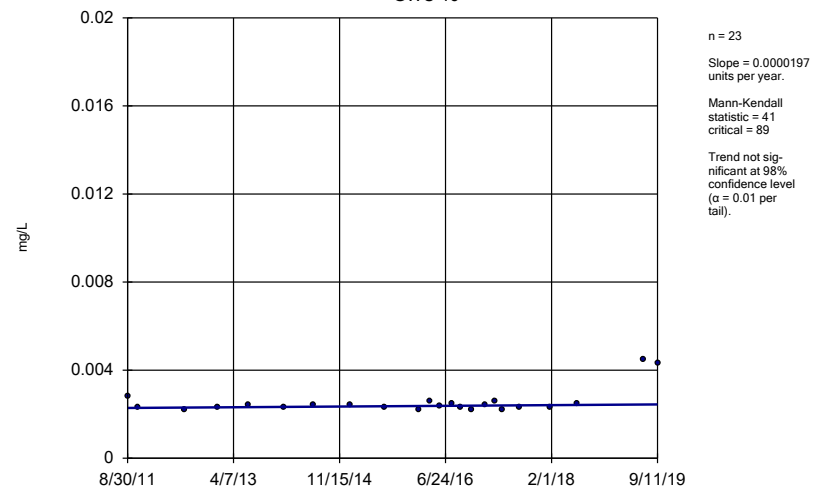
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### Chromium GWC-13



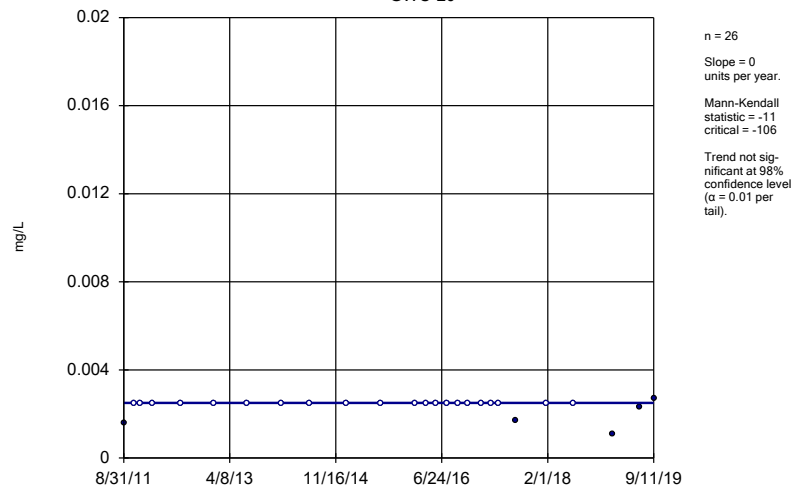
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### Chromium GWC-16



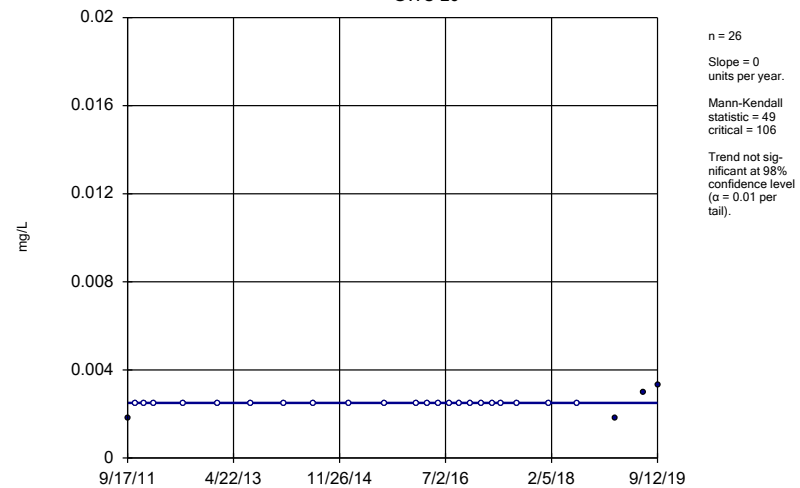
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWC-20



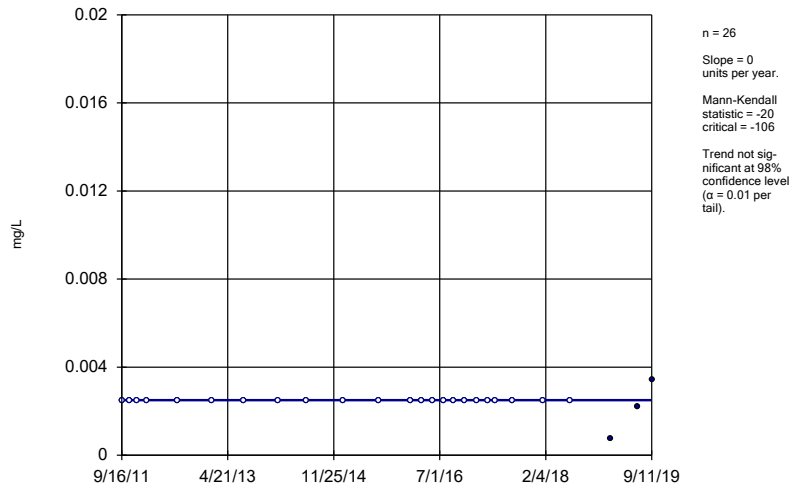
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### Chromium GWC-26



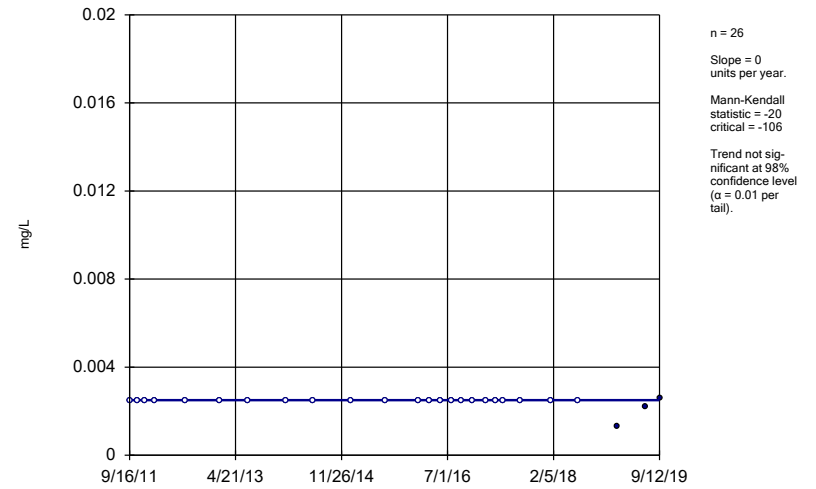
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWC-34



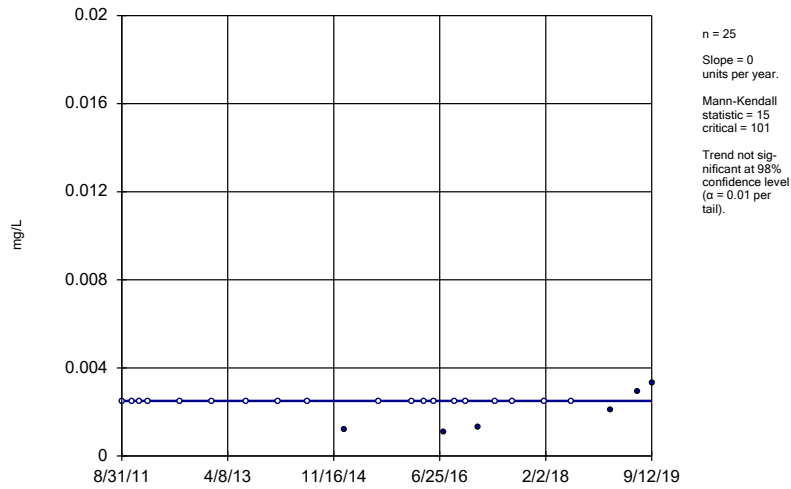
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWC-35



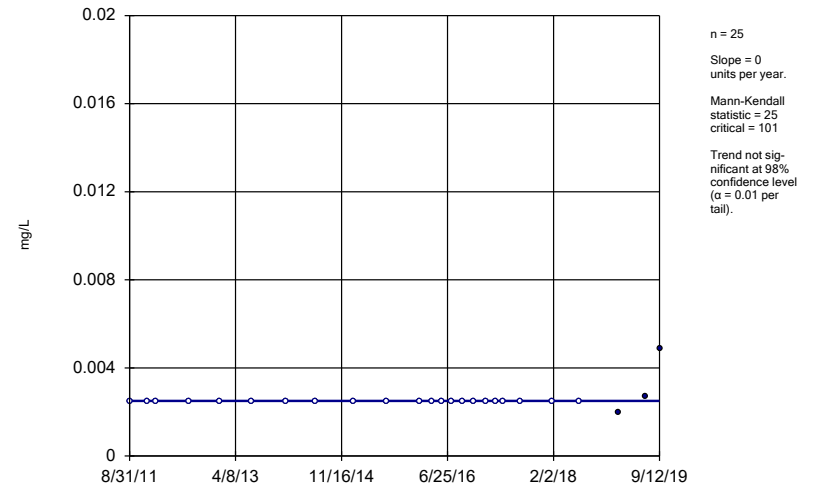
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### Chromium GWC-5



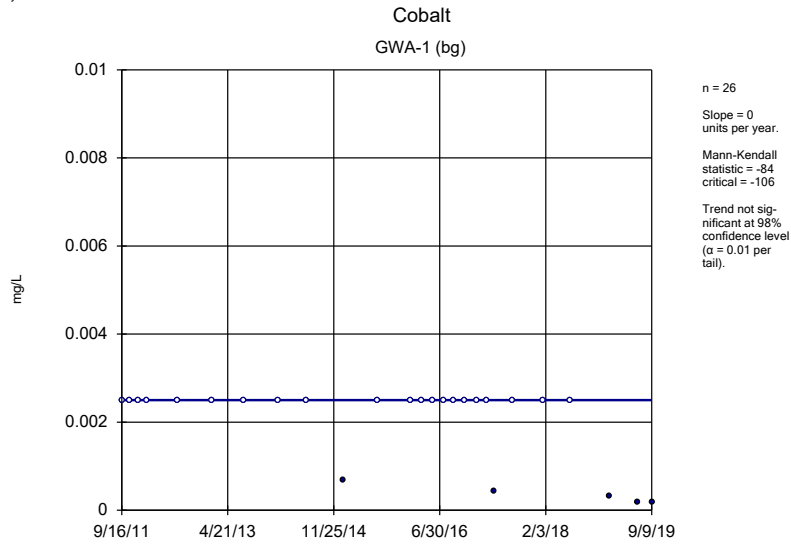
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Plant Wansley Client: Southern Company Data: Wansley Landfill

### Chromium GWC-6

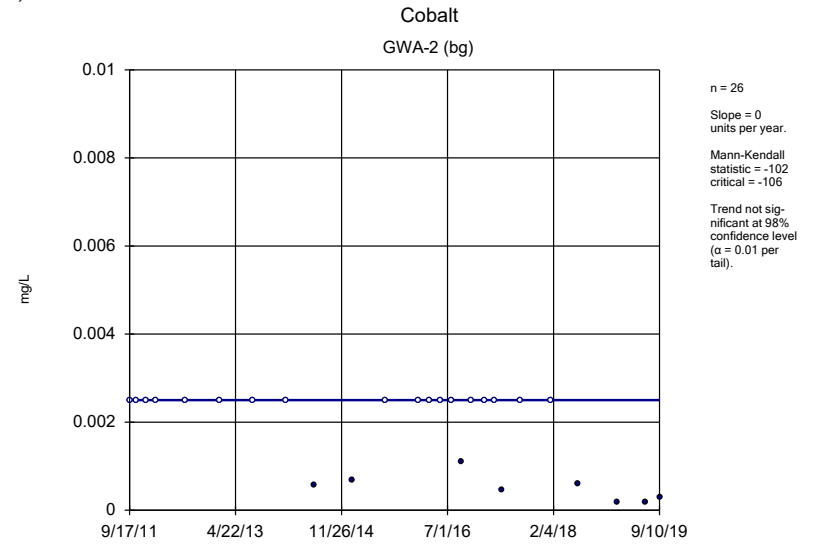


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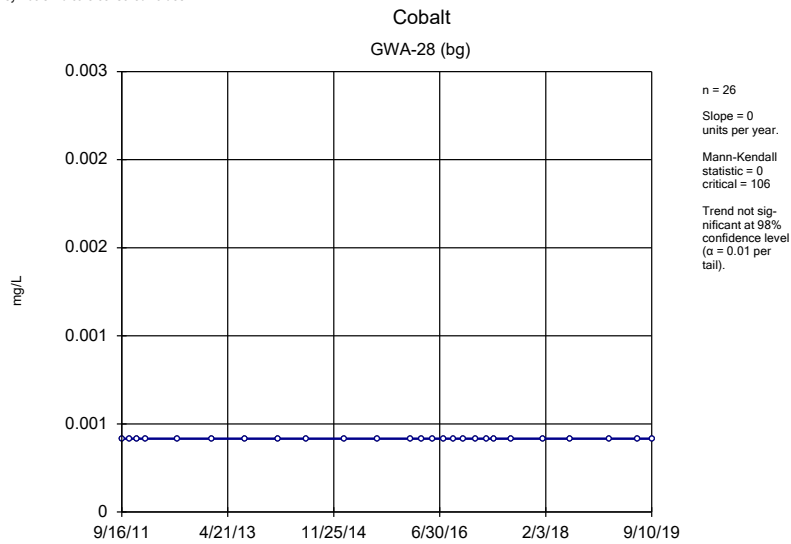




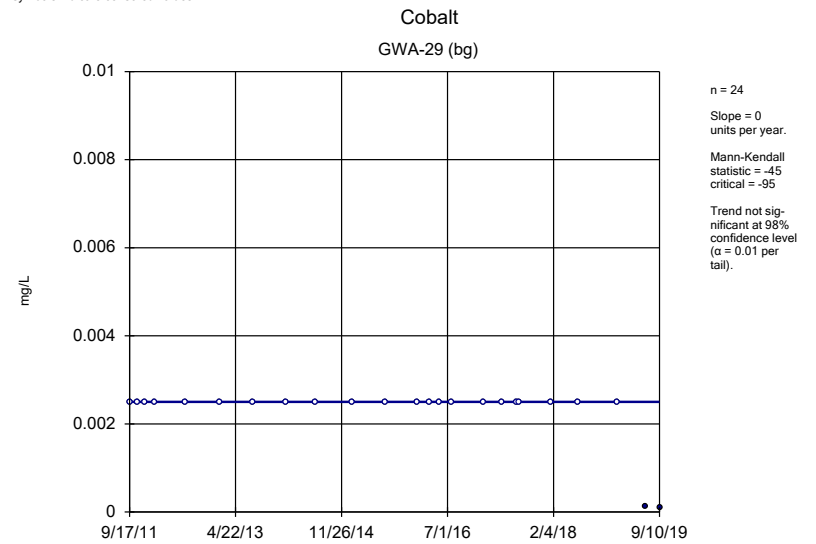
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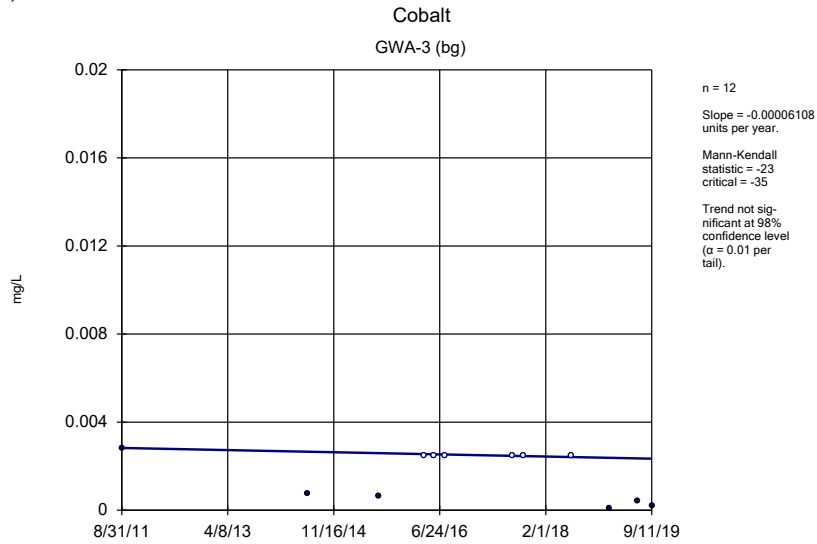
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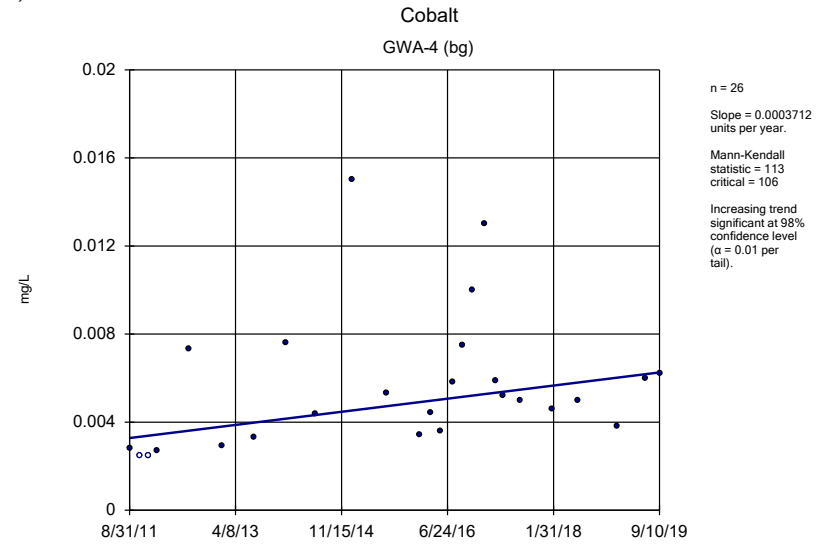
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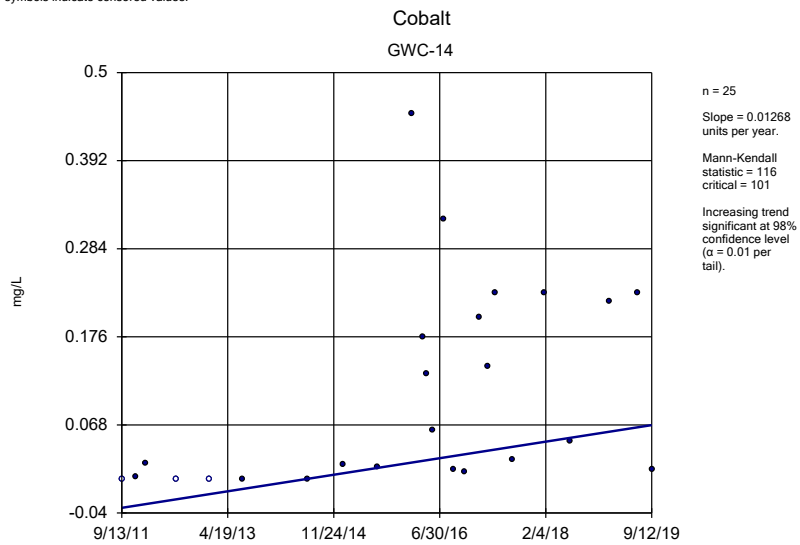
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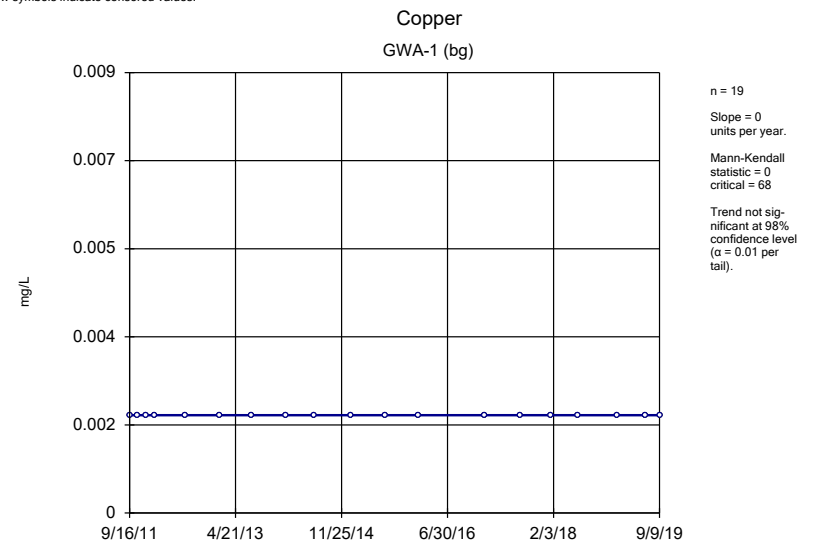
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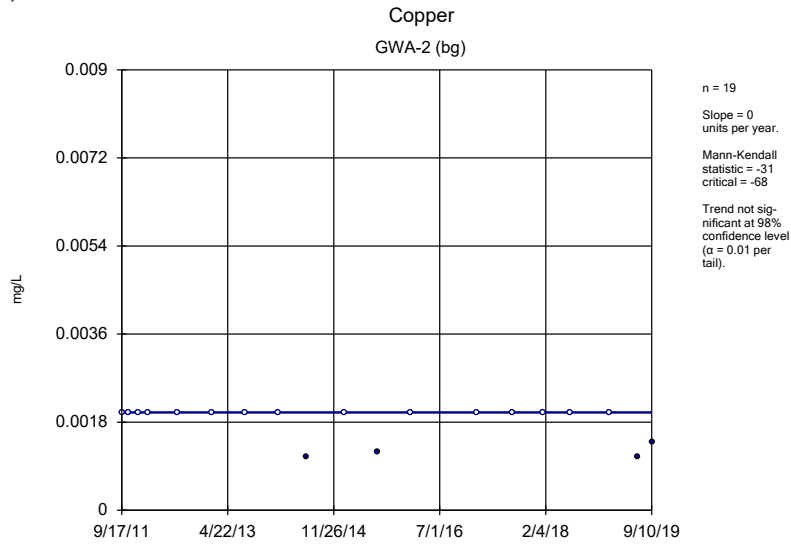
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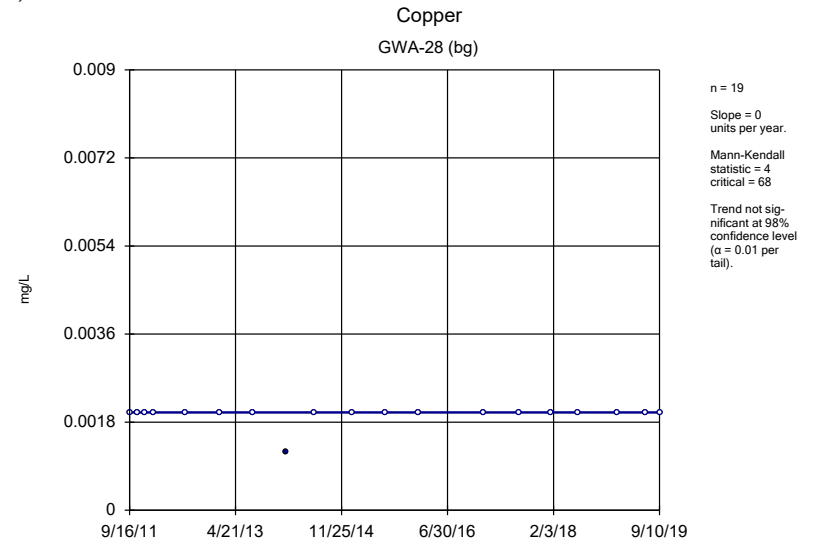
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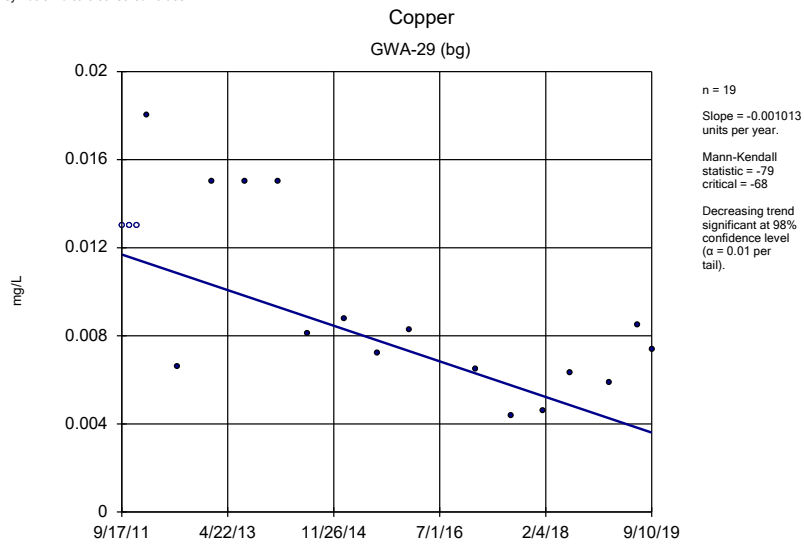
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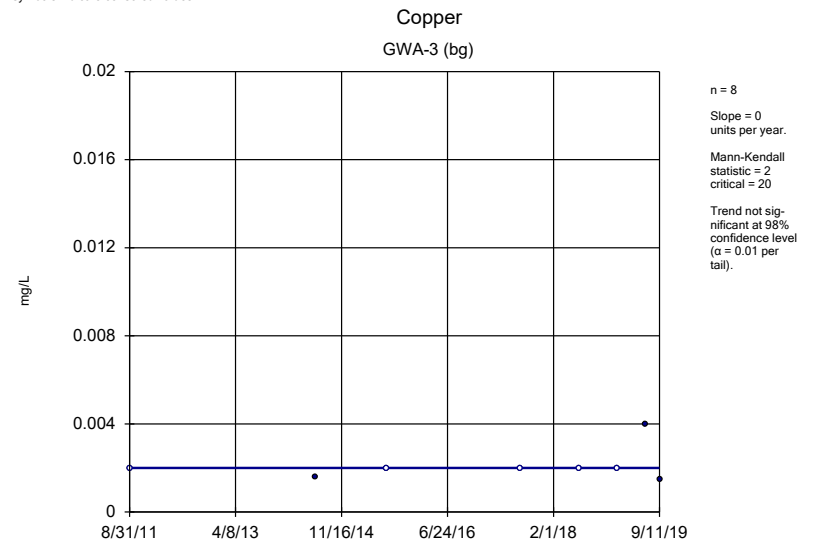
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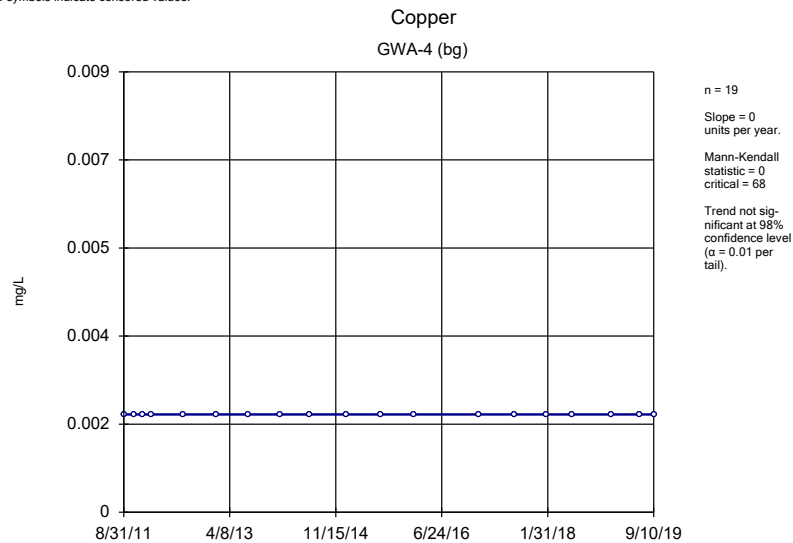
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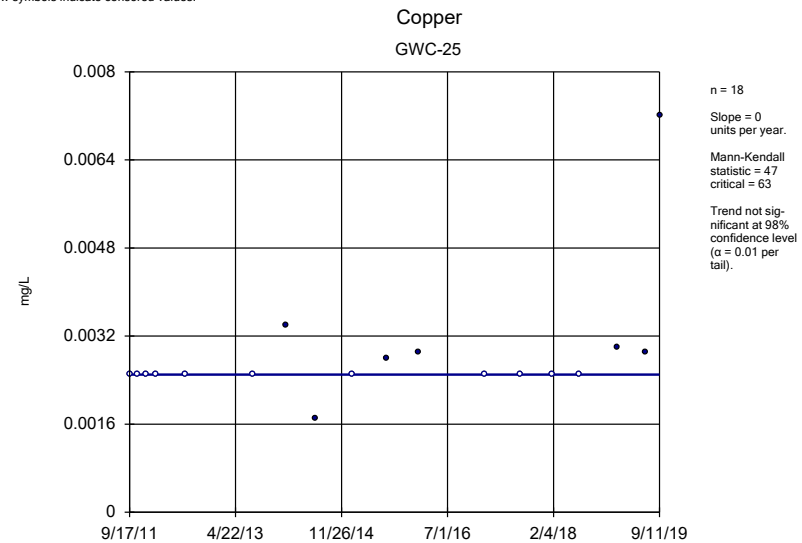
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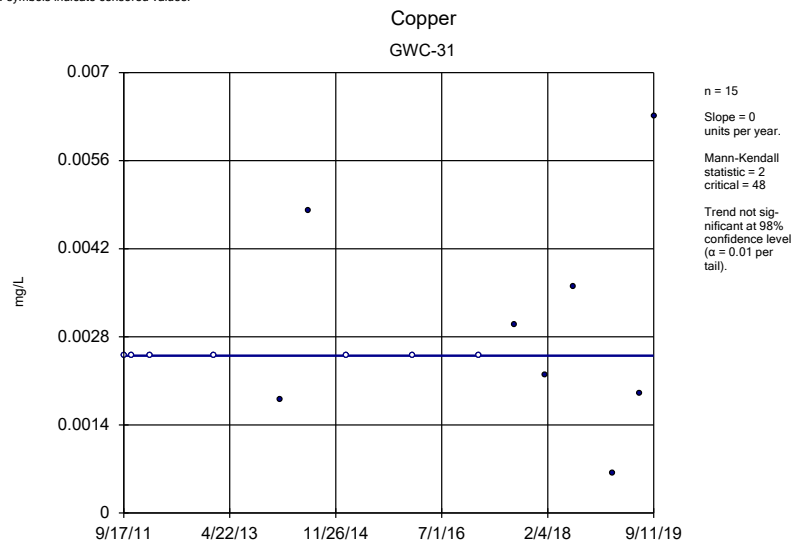
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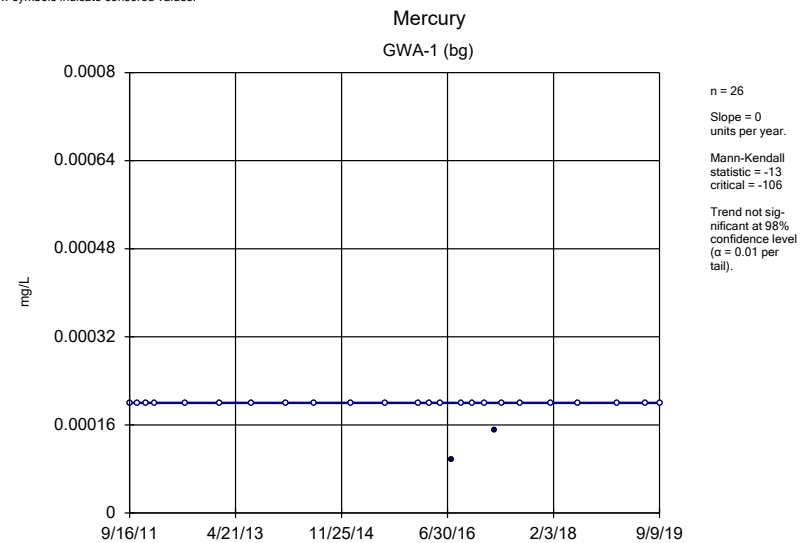
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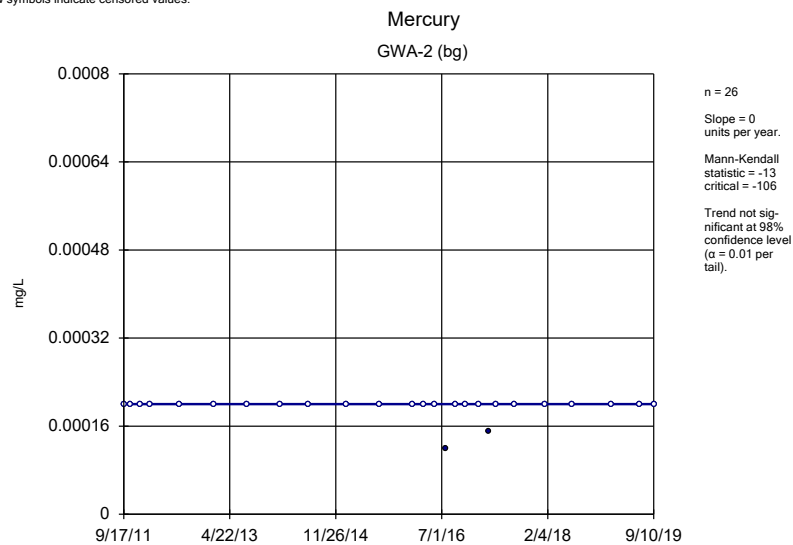
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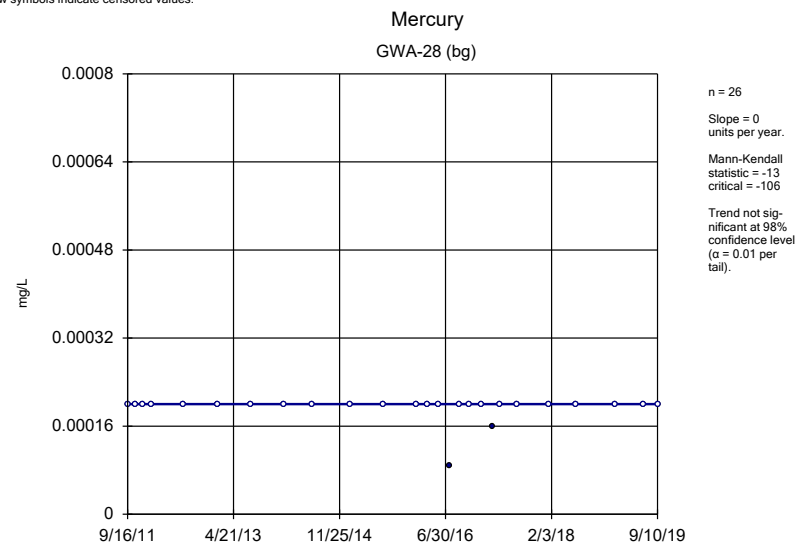
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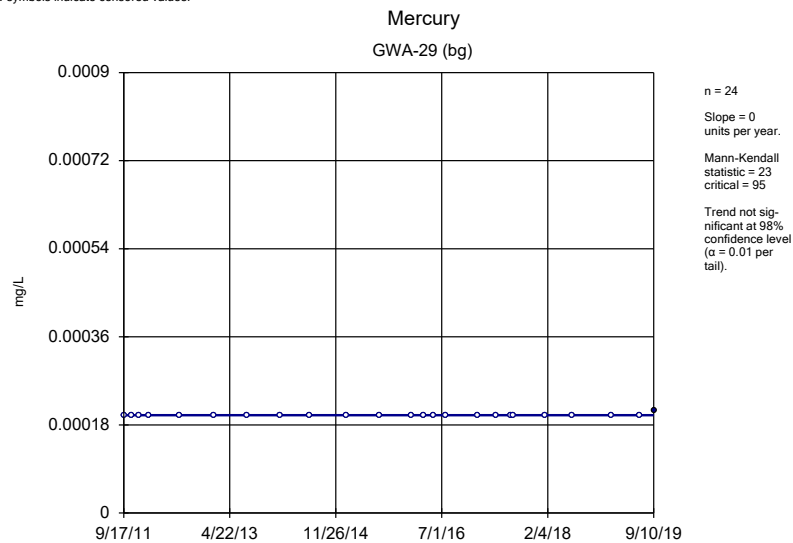
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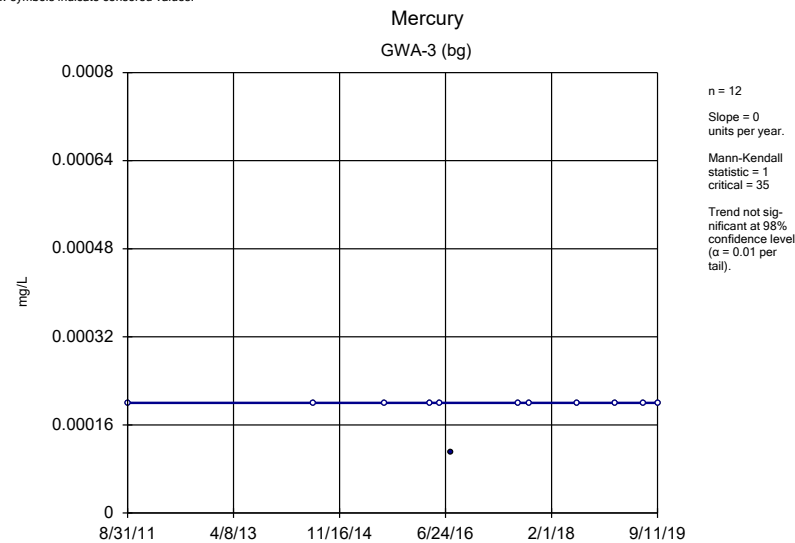
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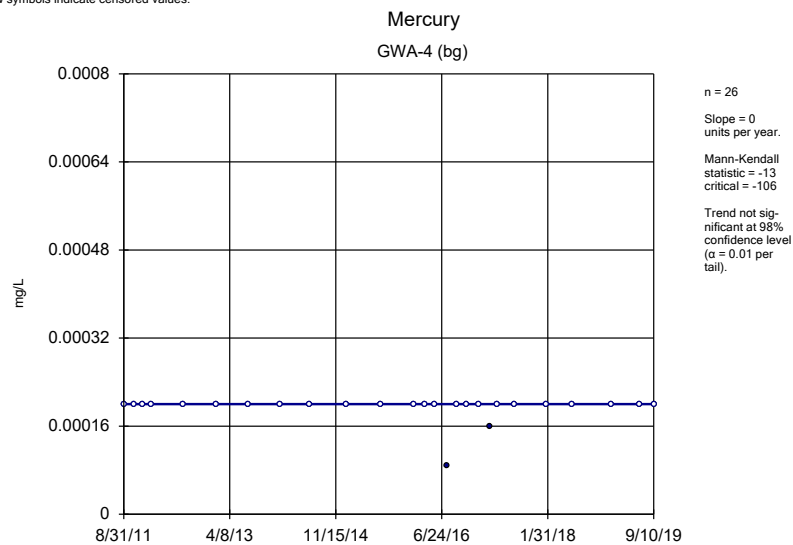
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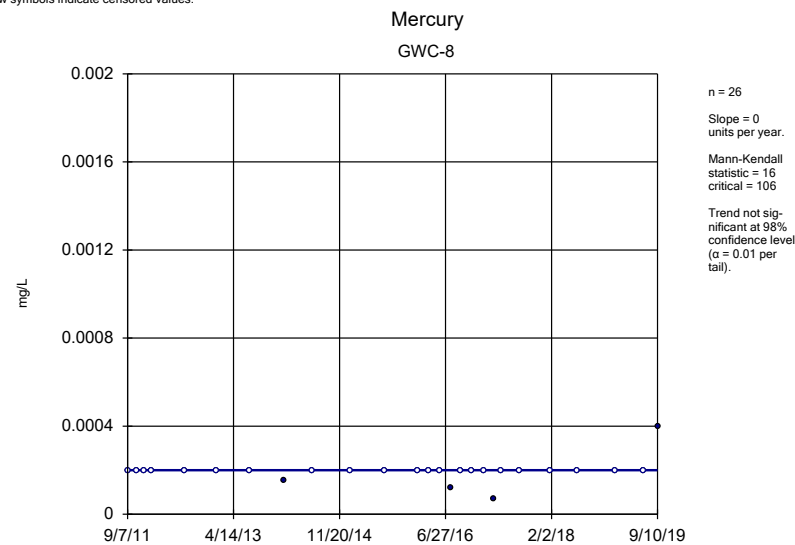
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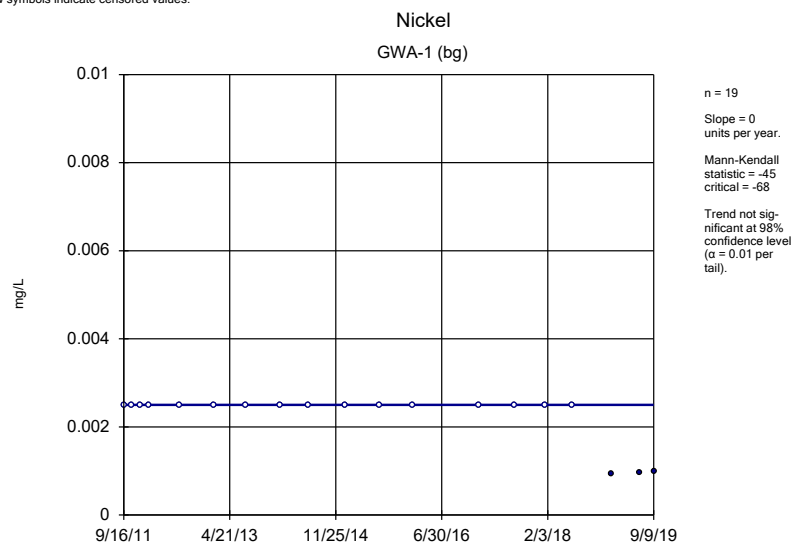
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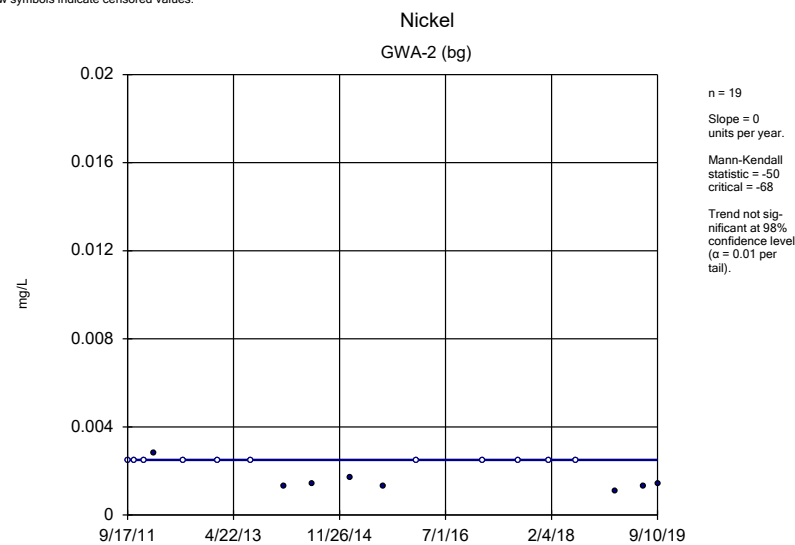
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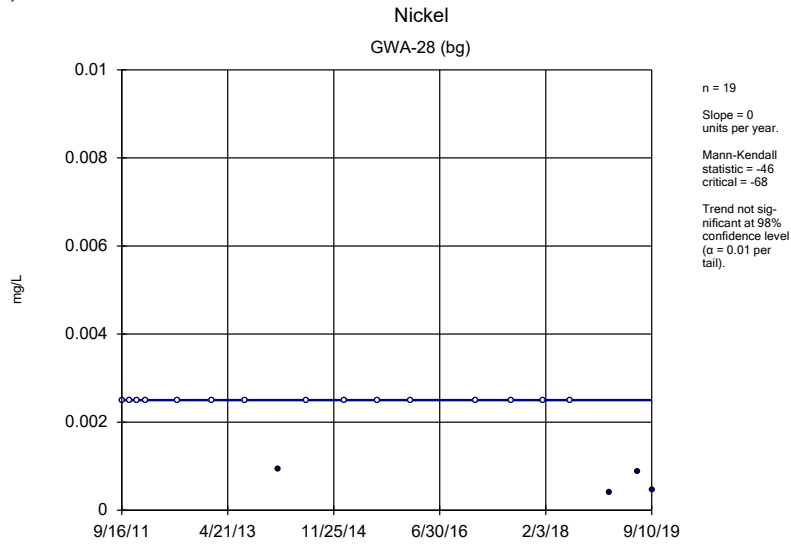
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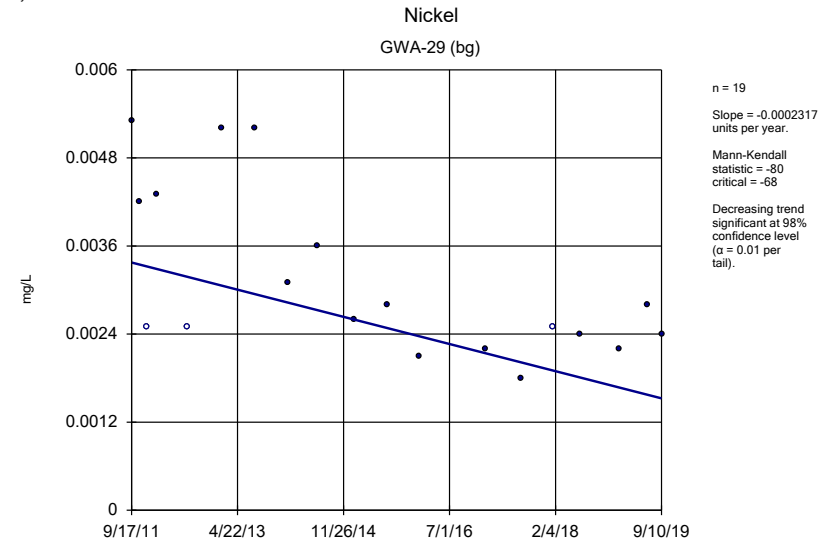
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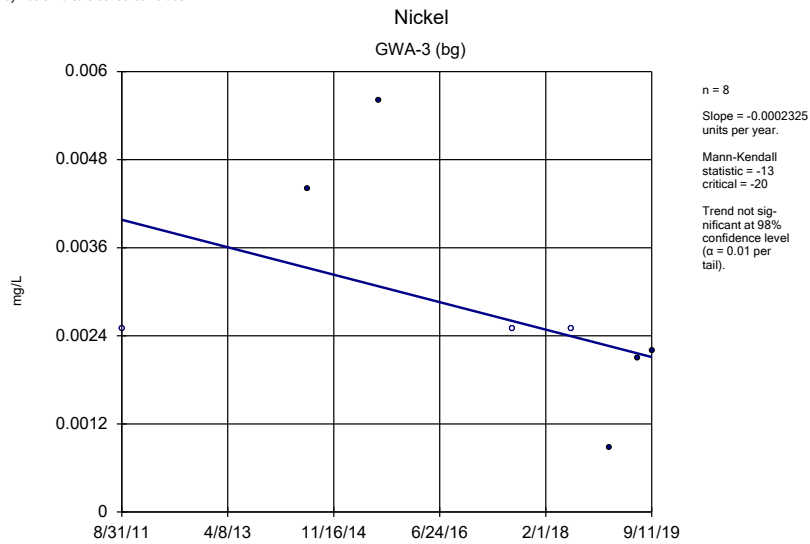
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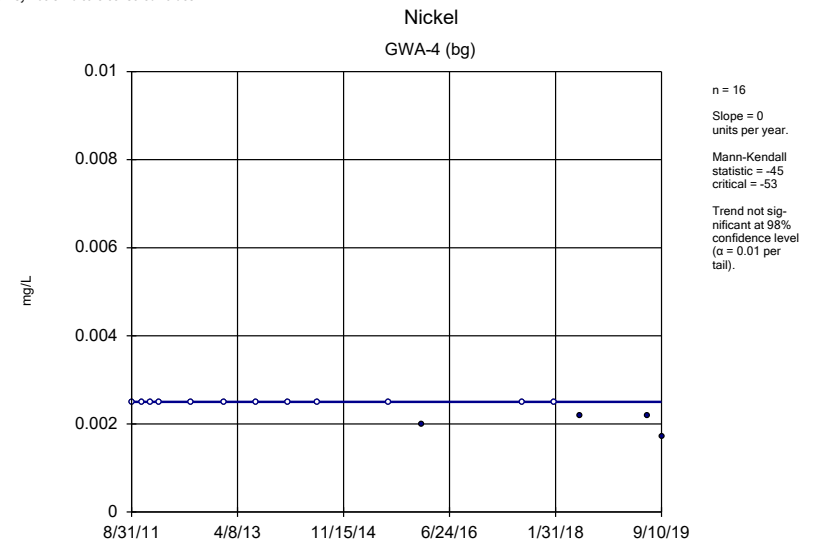
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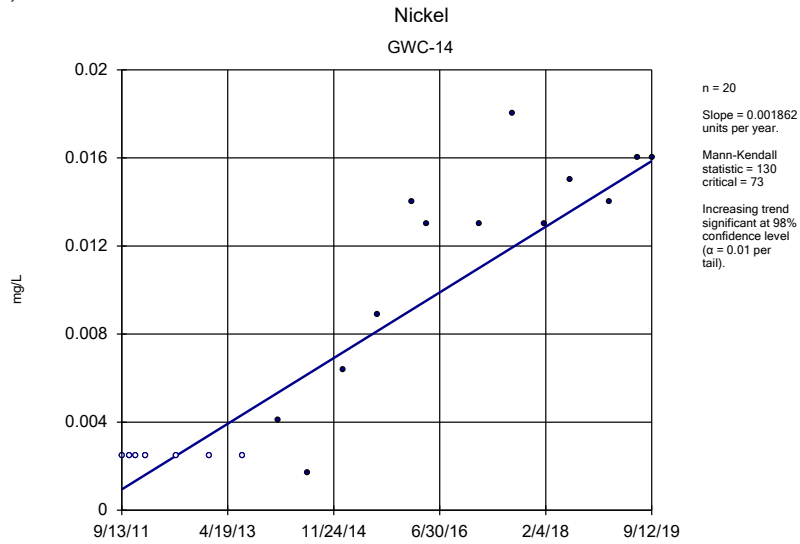
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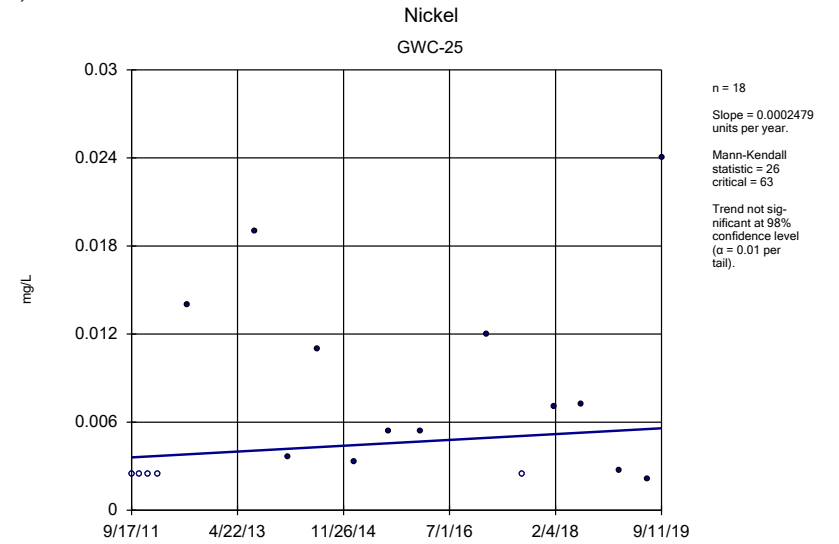
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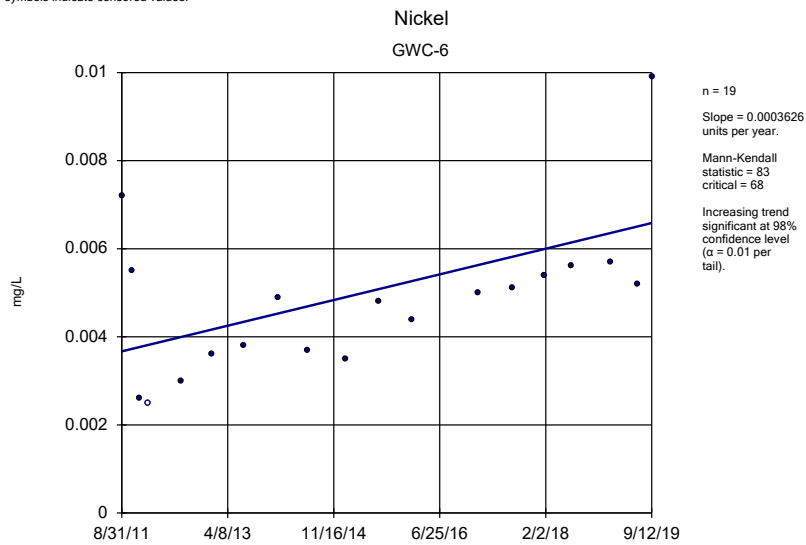
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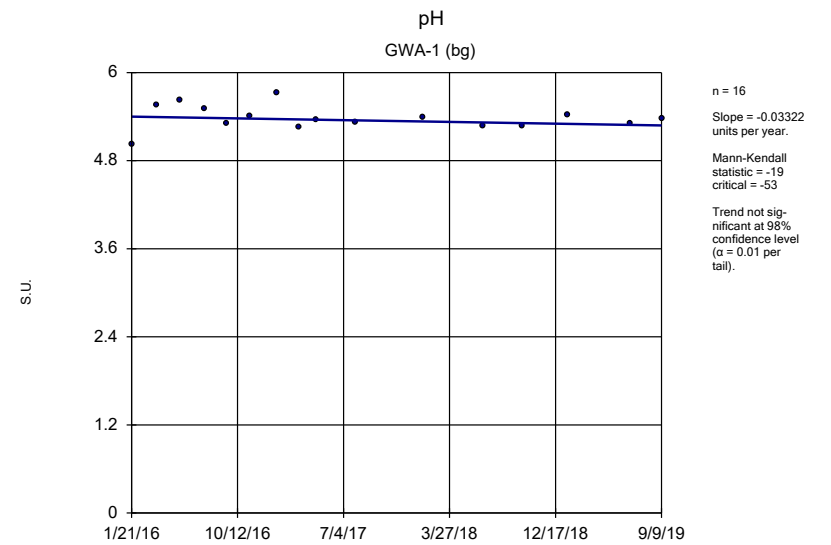
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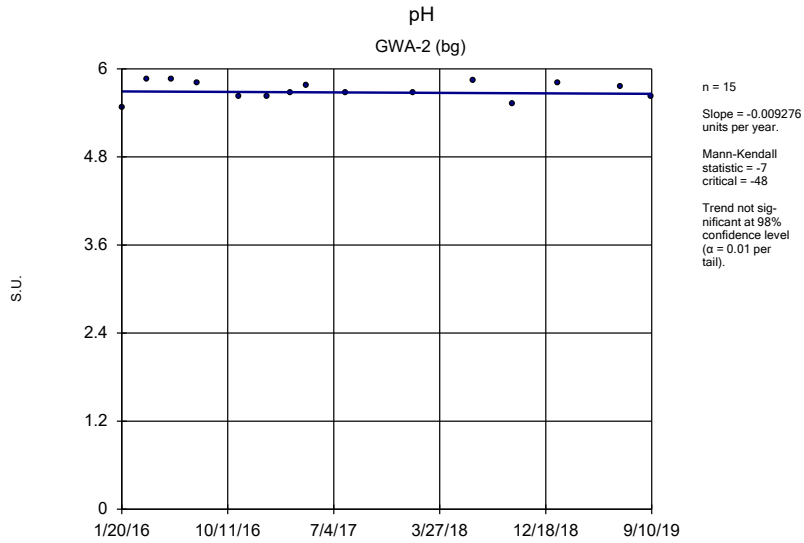


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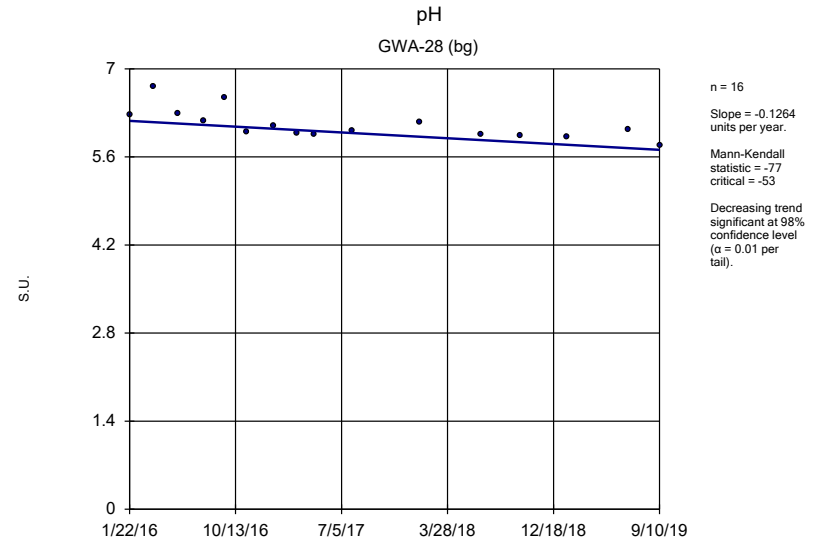


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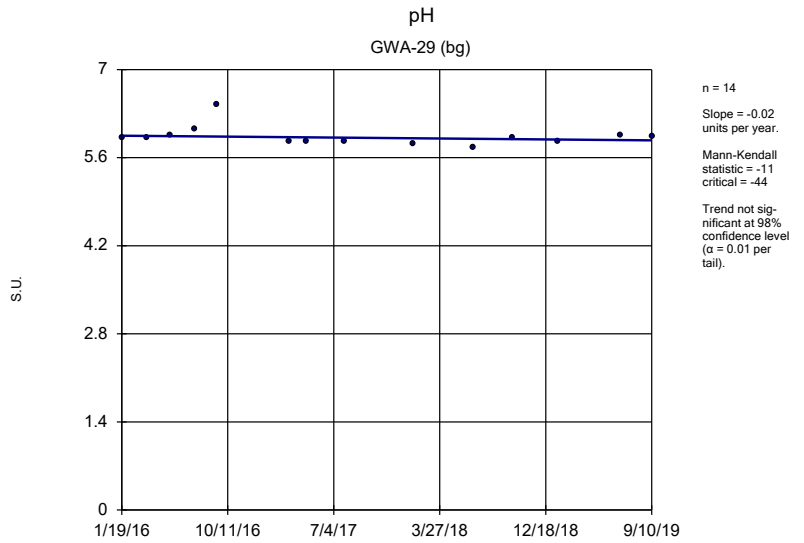




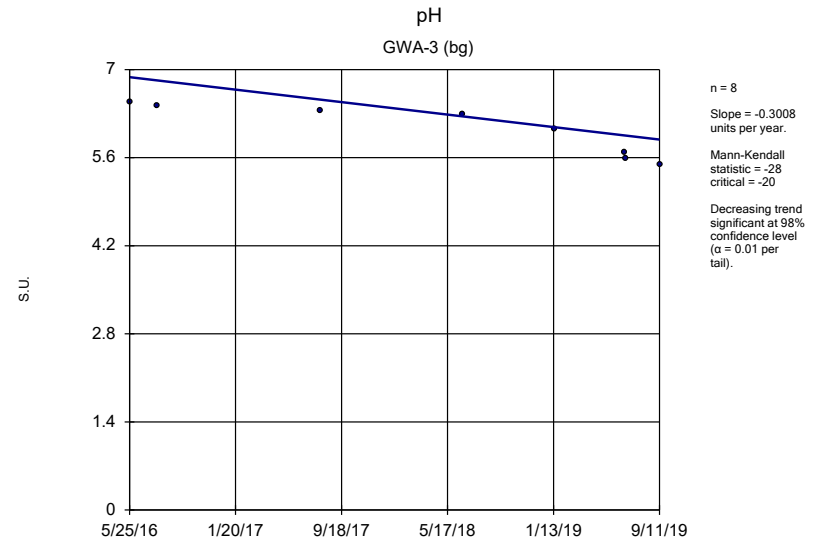
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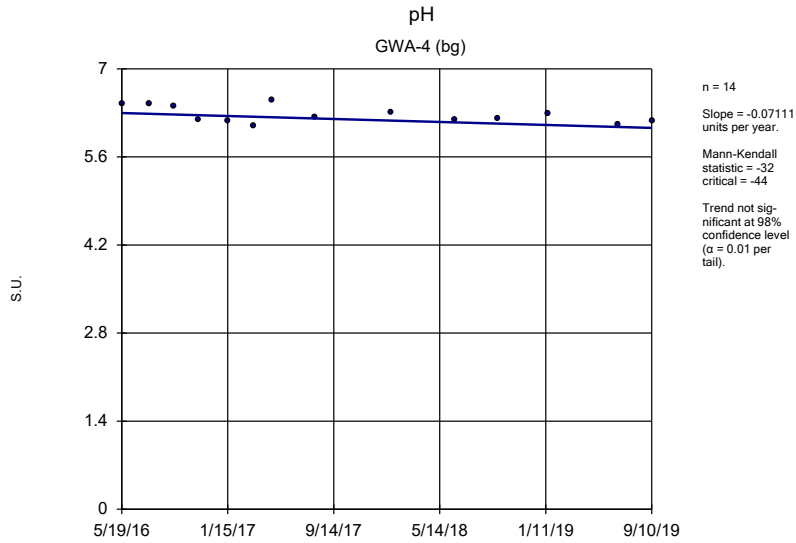
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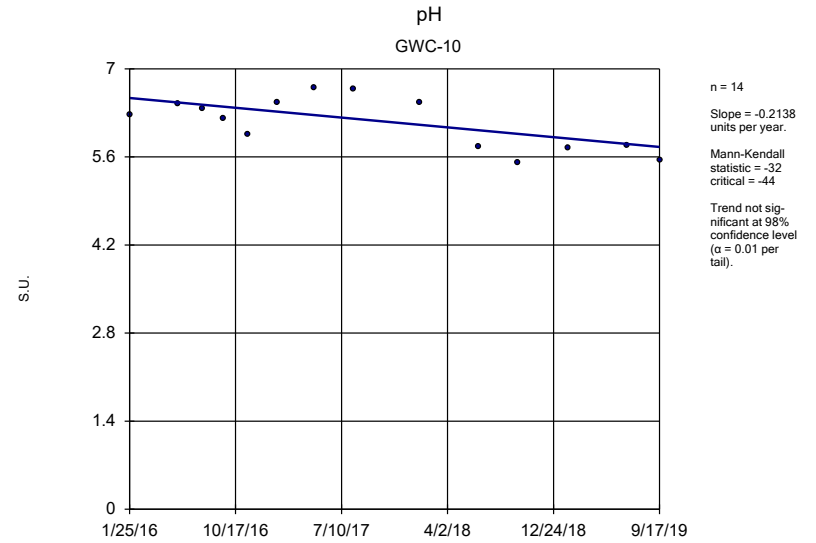
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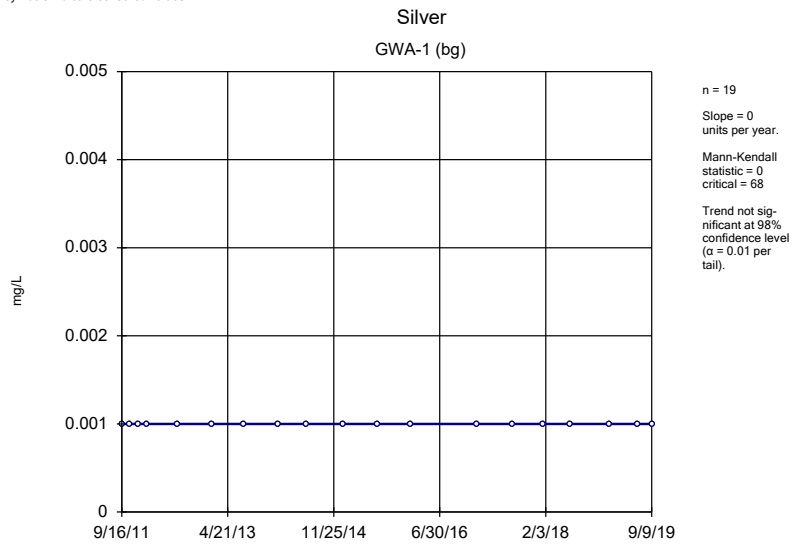
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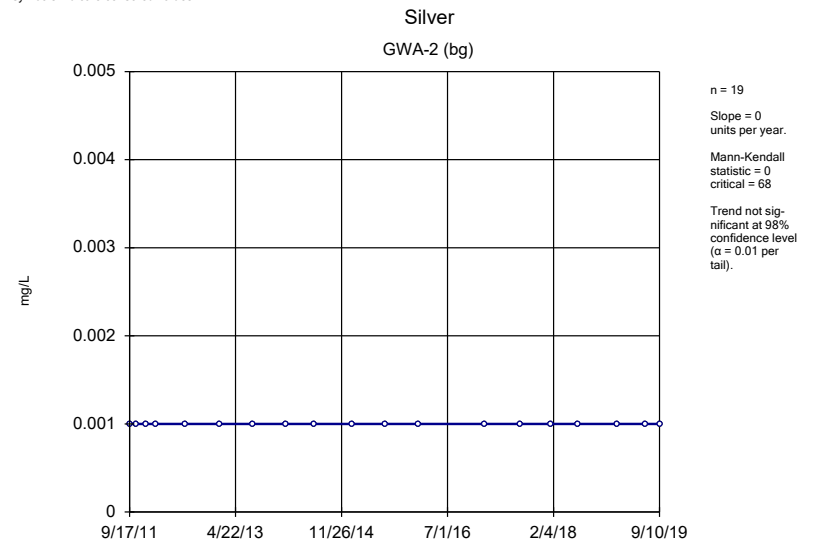
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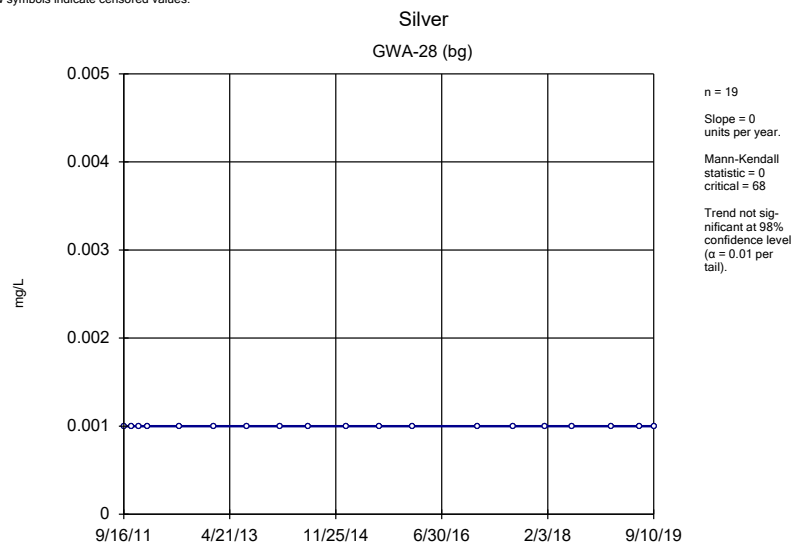
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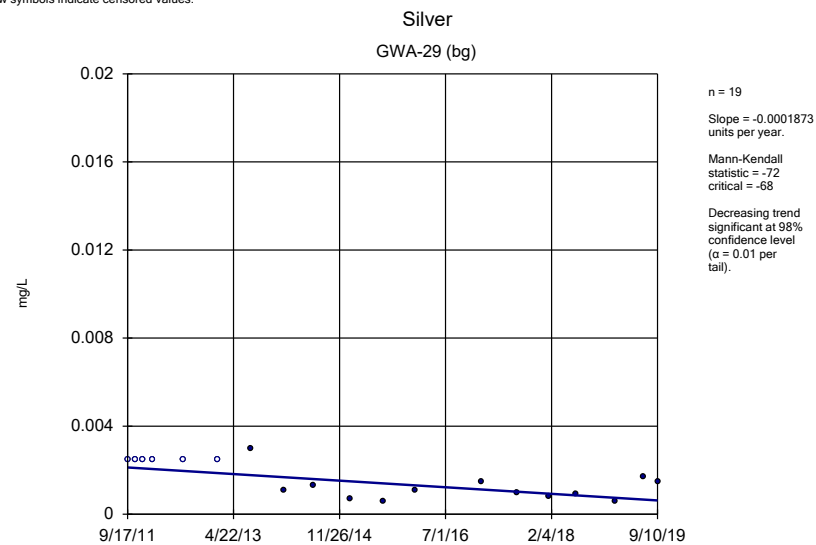
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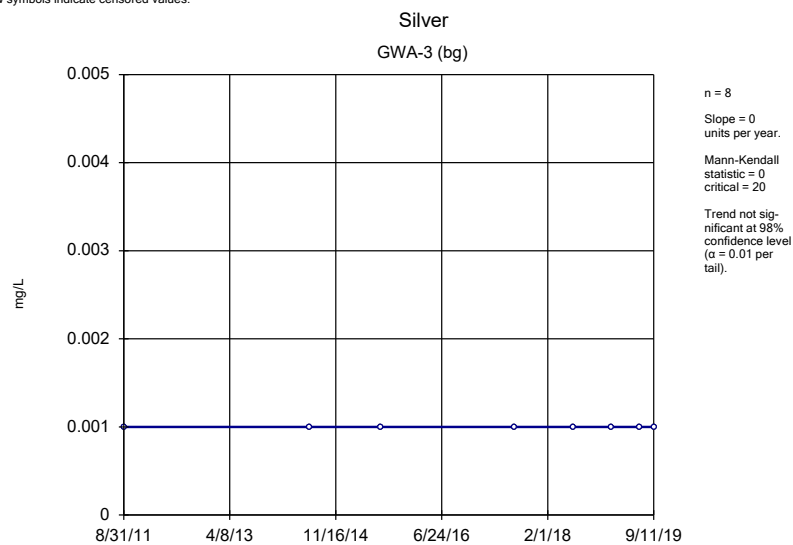
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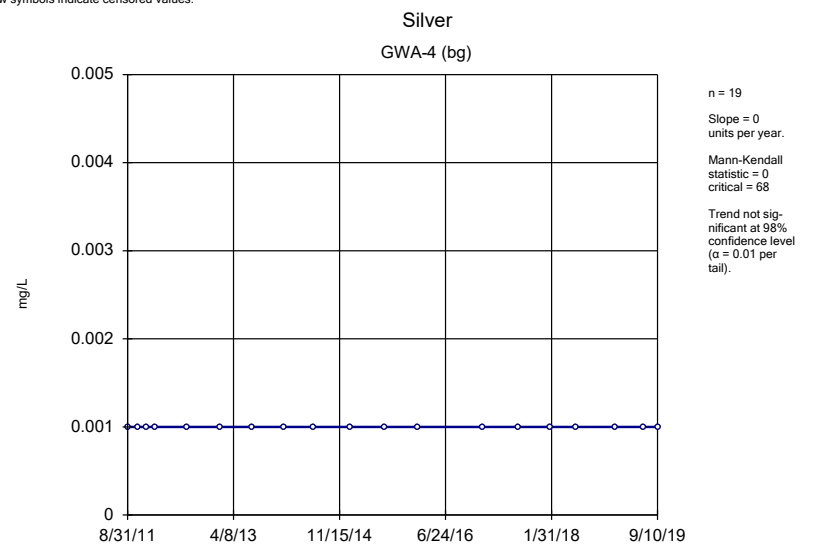
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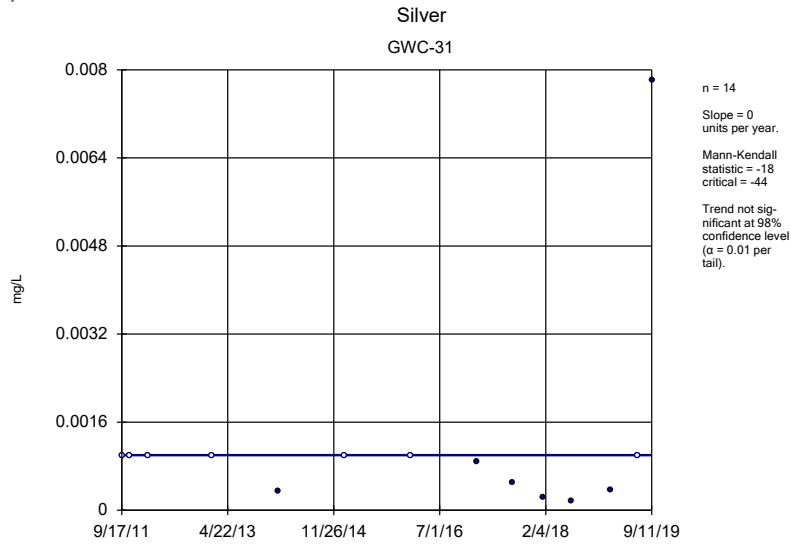
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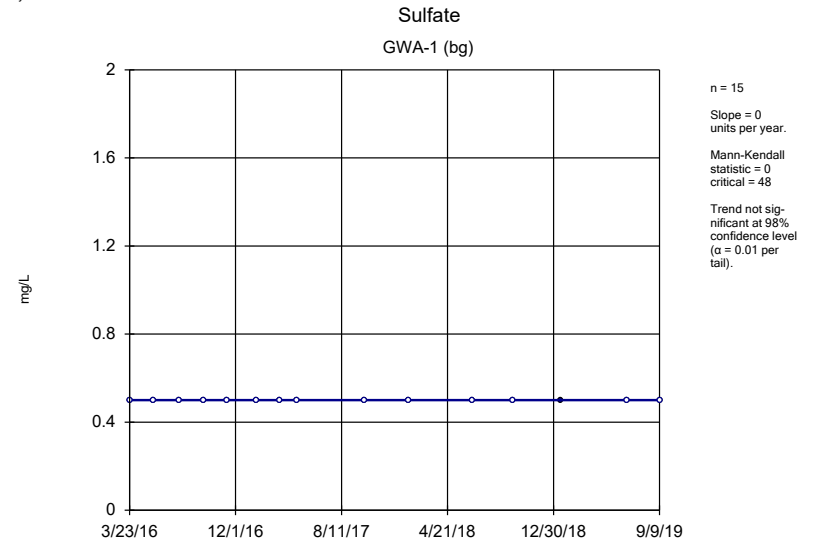
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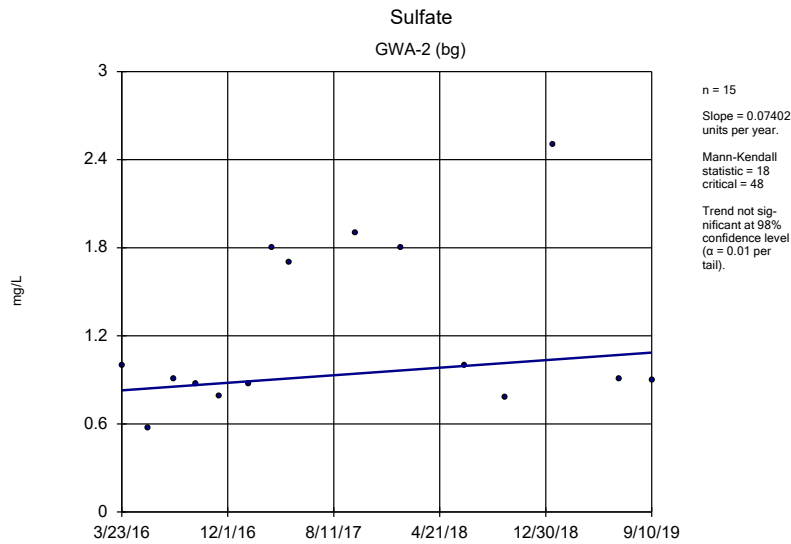
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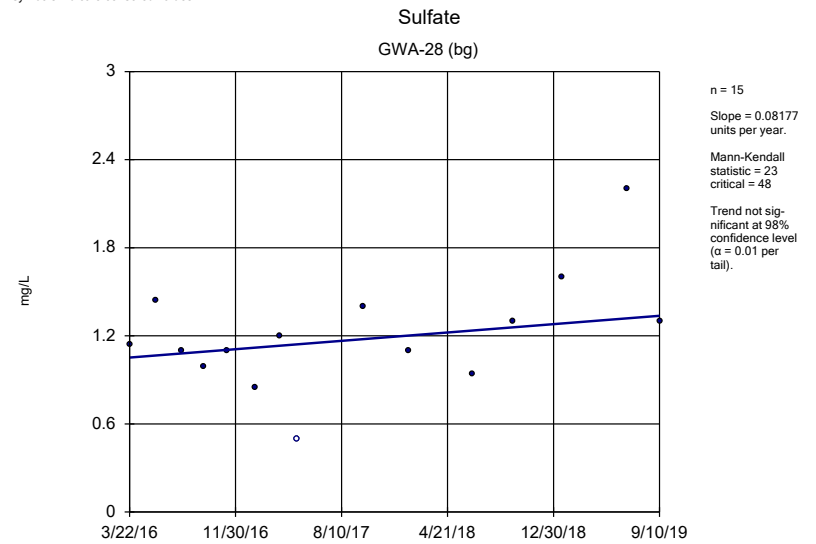
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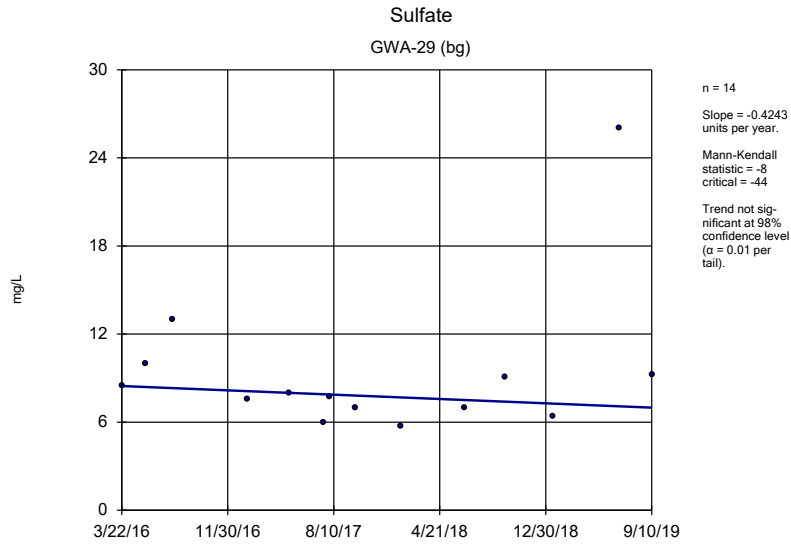
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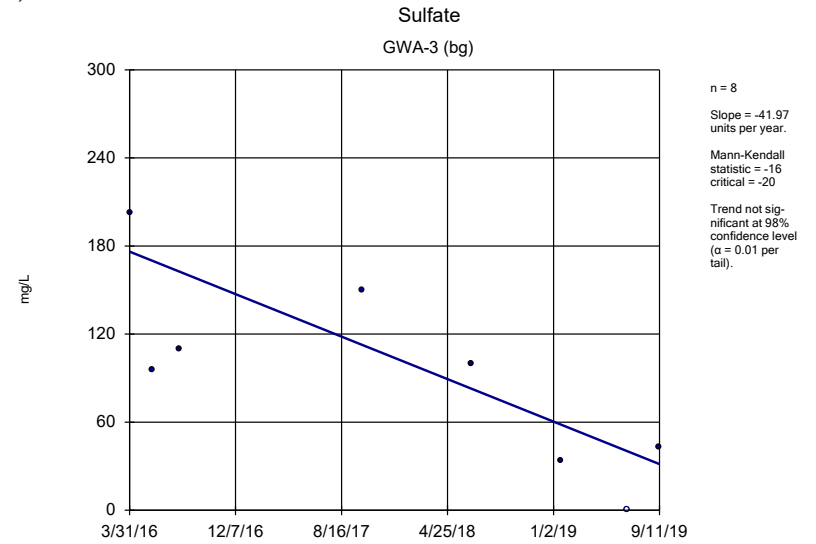
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



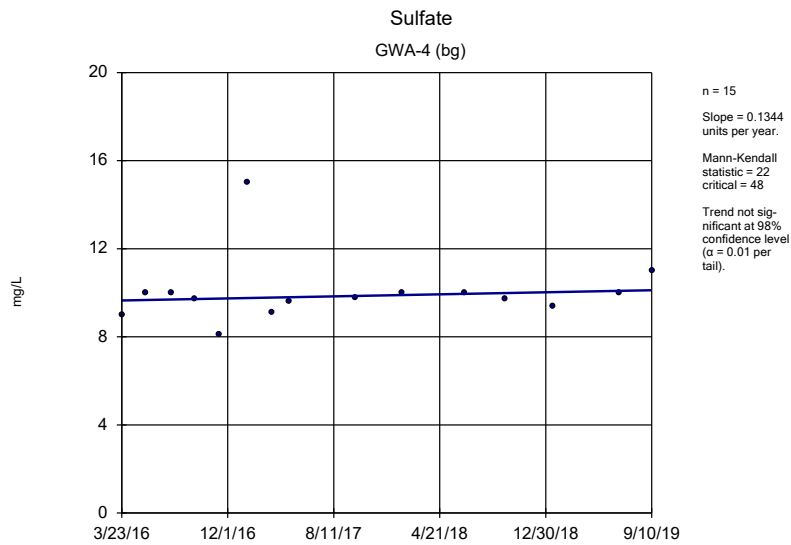
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



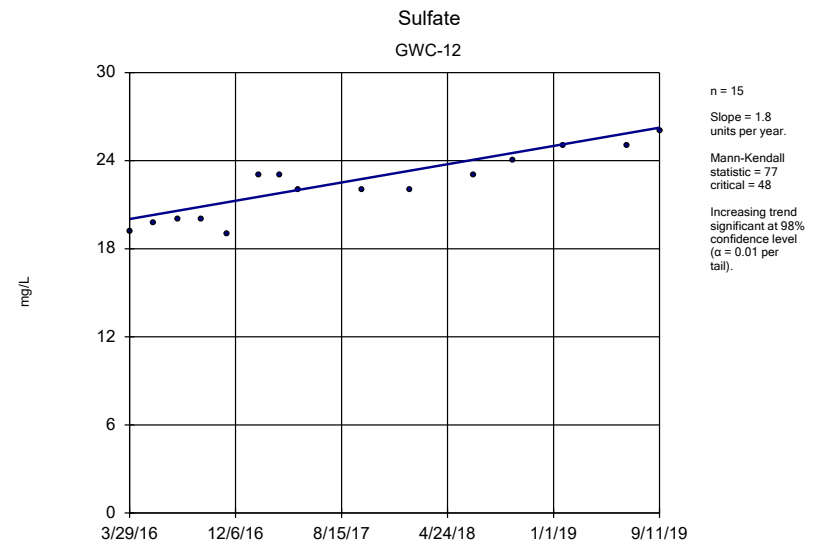
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

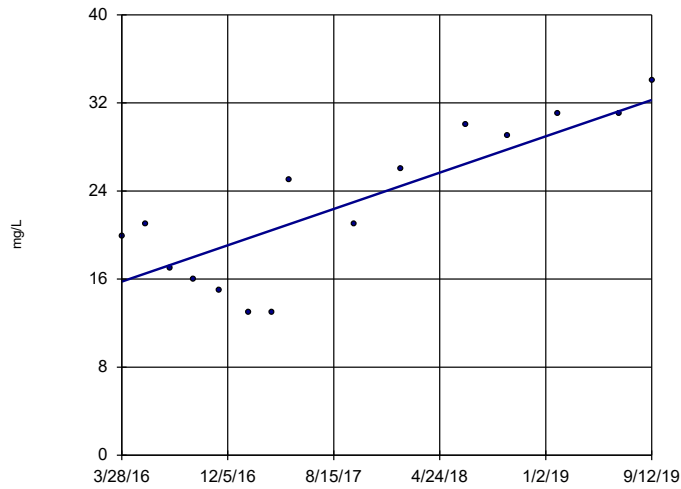


Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



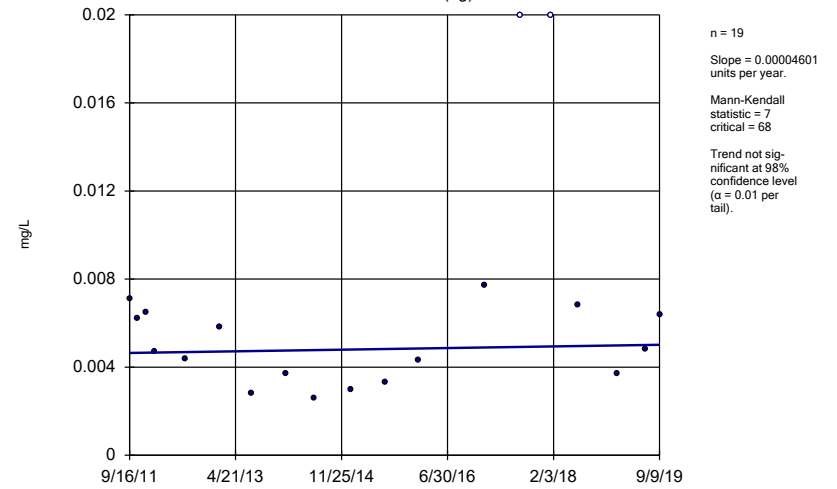
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Sulfate GWC-5



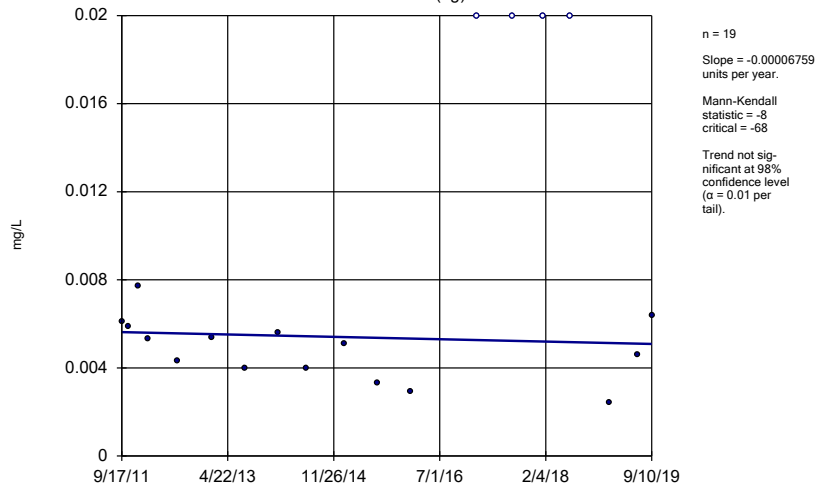
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc GWA-1 (bg)



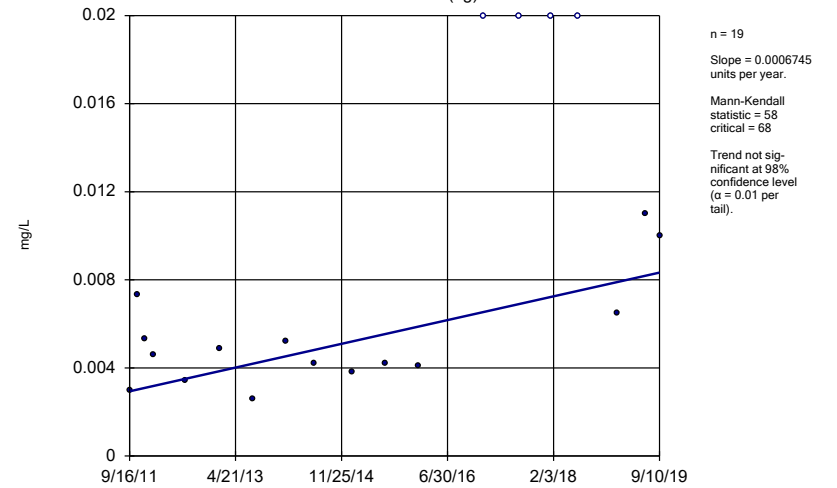
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc GWA-2 (bg)



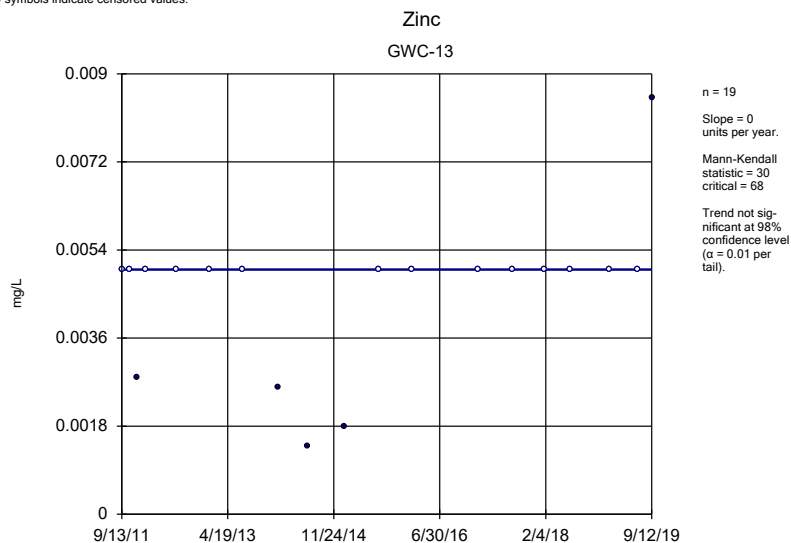
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

### Zinc GWA-28 (bg)

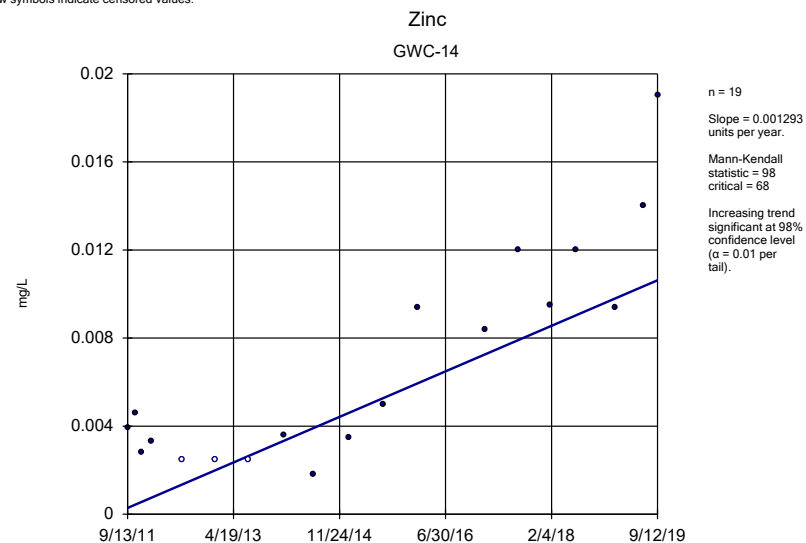


Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

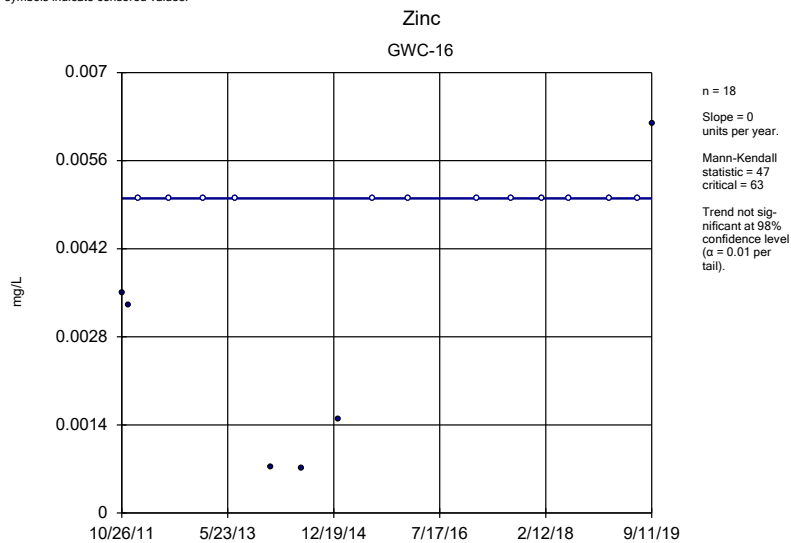




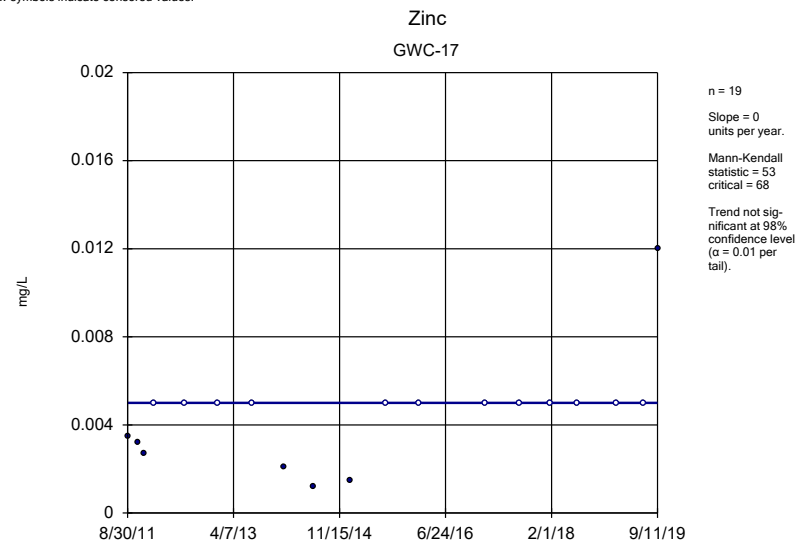
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

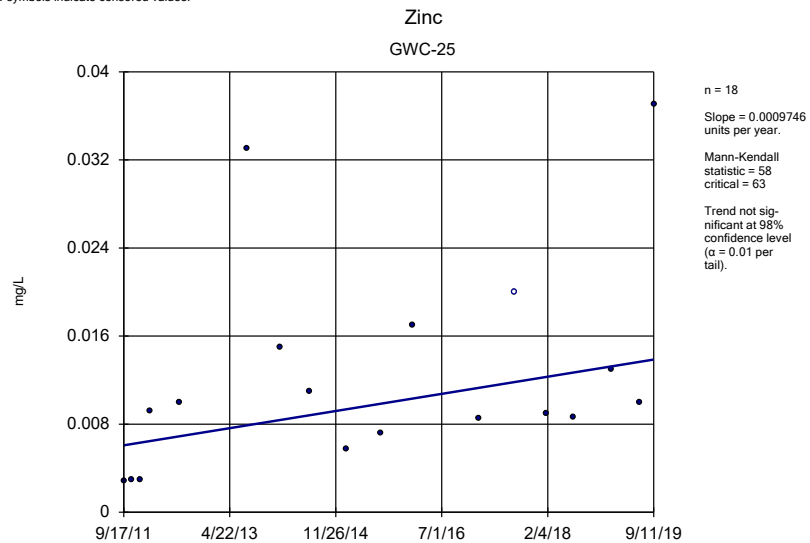


Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

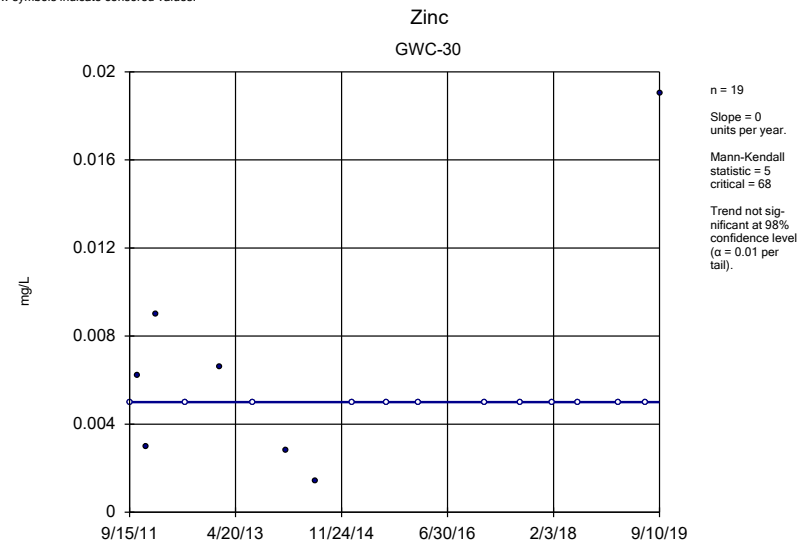


Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

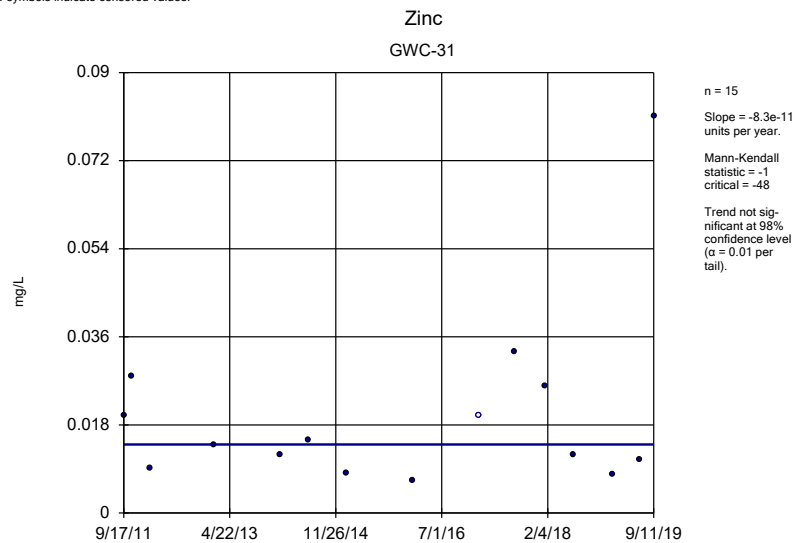




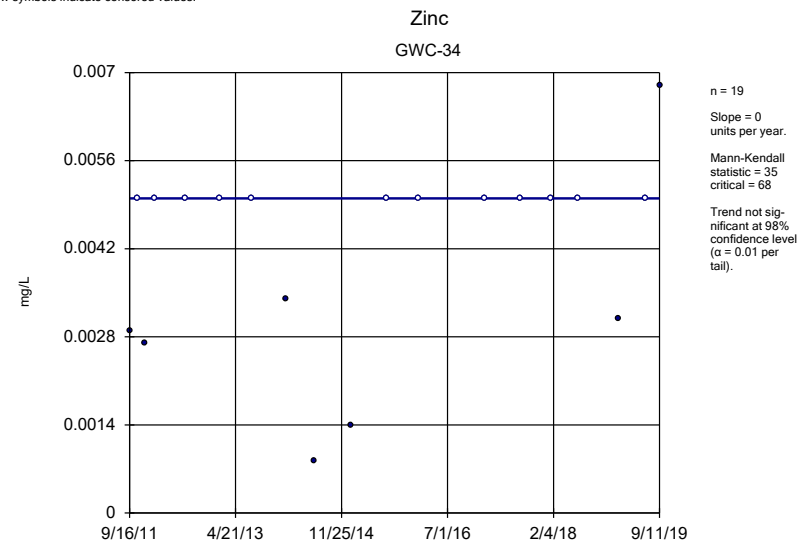
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



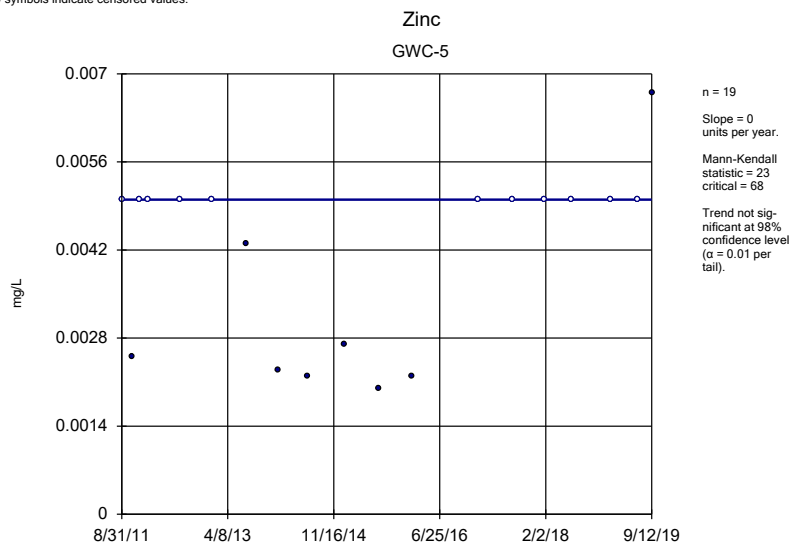
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



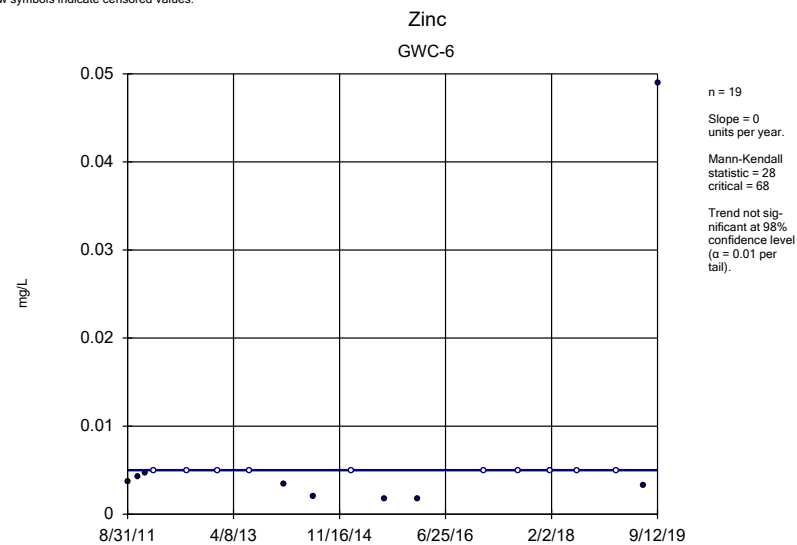
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



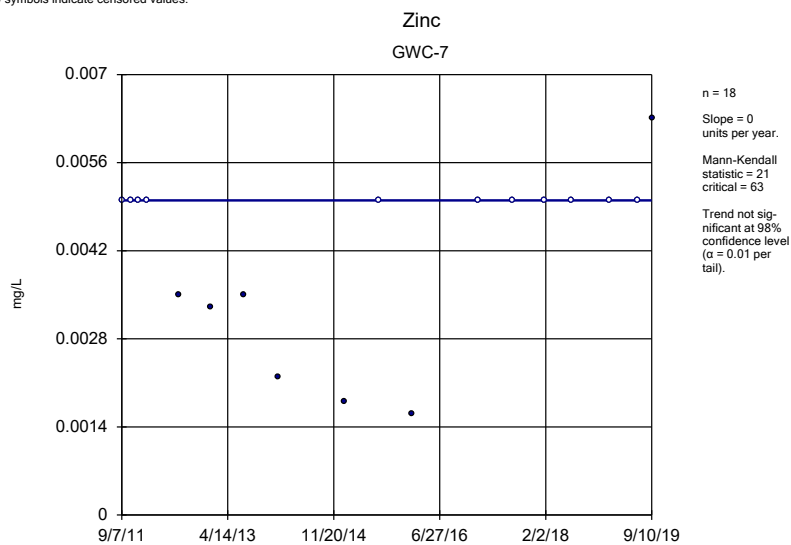
Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill



Sen's Slope Estimator Analysis Run 11/14/2019 5:21 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

# Sen's Slope Estimator

Constituent: Barium Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
9/16/2011	0.013		0.0022	
9/17/2011		0.011		0.0016
10/27/2011	0.012	0.013		
10/28/2011			0.0016	0.0015
12/12/2011			0.0018	0.0013
12/13/2011	0.012			
12/14/2011		0.01		
1/25/2012			<0.01	
1/31/2012	0.011			<0.01
2/7/2012		0.014		
7/16/2012			0.0011	
7/17/2012				0.0016
7/18/2012	0.012			
7/23/2012		0.014		
1/23/2013		0.02		
1/24/2013	0.012		<0.01	0.0013
7/17/2013	0.0097			
7/23/2013			<0.01	
7/24/2013		0.016		0.0022
1/21/2014	0.0096			
1/22/2014		0.017	0.0013	0.0012 (J)
6/25/2014	0.0094			
7/1/2014		0.015	0.0012 (J)	
7/8/2014				0.0013 (D)
1/14/2015	0.0095			
1/21/2015			0.00042 (J)	0.0015
1/22/2015		0.019		
7/21/2015	0.0099		0.00055 (J)	
7/22/2015		0.014		0.0014
1/19/2016				0.00092 (JD)
1/20/2016		0.016		
1/21/2016	0.011			
1/22/2016			0.00037 (J)	
3/22/2016			<0.01	<0.01
3/23/2016	0.00968 (J)	0.00773 (J)		
5/19/2016				0.00265 (J)
5/20/2016	0.0096 (J)			
5/23/2016			<0.01	
5/24/2016		0.00761 (J)		
7/21/2016	0.0087			0.0038
7/25/2016			0.001 (J)	
7/26/2016		0.0078		
9/15/2016	0.0086		0.00092 (J)	
9/16/2016		0.017		
11/9/2016			0.0016 (J)	
11/10/2016		0.016		
11/11/2016	0.0095			
1/17/2017			<0.01	0.0011 (J)
1/19/2017	0.0087	0.02		
3/16/2017	0.01		0.00055 (J)	
3/17/2017		0.016		
4/27/2017			<0.01	0.00097 (J)

# Sen's Slope Estimator

Constituent: Barium Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
4/28/2017	0.0091	0.016		
7/18/2017				0.0016 (J)
8/1/2017			0.00059 (J)	0.0011 (J)
8/2/2017		0.014		
8/3/2017	0.0099			
1/19/2018	0.0089	0.014	<0.01	0.00076 (J)
6/19/2018	0.012	0.015	<0.01	0.00078 (J)
1/17/2019	0.01	0.01		
1/18/2019				0.0007 (J)
1/21/2019			0.00088	
6/24/2019	0.0096 (J)	0.011		
6/25/2019			<0.01	<0.01
9/9/2019	0.012			
9/10/2019		0.015	0.0022 (J)	0.0033 (J)

# Sen's Slope Estimator

Constituent: Barium Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-14	GWC-16
8/30/2011				0.018
8/31/2011	0.1	0.092		
9/13/2011			0.01	
10/26/2011				0.017
10/27/2011		0.061	0.019	
12/3/2011			0.011	0.018
12/14/2011		0.1		
1/24/2012			0.015	
1/25/2012				0.017
2/1/2012		0.087		
7/11/2012			0.01	0.017
7/23/2012		0.13		
1/8/2013			0.013	0.019
1/23/2013		0.11		
7/2/2013				0.017
7/10/2013			0.014	
7/17/2013		0.087		
1/14/2014				0.017
1/15/2014		0.081		
1/21/2014			<0.0013	
6/25/2014	0.048	0.081		0.017
7/1/2014			0.014	
1/13/2015				0.017
1/14/2015		0.13	0.033	
7/21/2015	0.036	0.11		
7/22/2015			0.072	0.017
1/20/2016		0.086		
1/27/2016			0.083	0.016
3/23/2016		0.112		
3/30/2016			0.0943	0.0174
3/31/2016	0.027			
5/19/2016		0.11		
5/25/2016	0.027		0.117	0.0173
7/21/2016		0.14		
7/26/2016			0.11	
7/27/2016	0.029			0.016
9/14/2016		0.15		
9/15/2016			0.16	
9/16/2016				0.016
11/10/2016		0.17		
11/17/2016			0.27	0.017
1/17/2017		0.18		
2/1/2017			0.088	0.018
3/16/2017		0.15		
3/23/2017			0.11	
3/24/2017				0.017
4/27/2017		0.13		
5/3/2017			0.1	0.017
8/1/2017	0.03			
8/2/2017		0.15		
8/7/2017			0.23	0.017
10/3/2017	0.038			

# Sen's Slope Estimator

Constituent: Barium Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-14	GWC-16
1/22/2018		0.15		
1/25/2018			0.1	0.016
6/19/2018		0.13		
6/20/2018	0.029		0.25	0.017
1/17/2019		0.12		
1/18/2019	0.033			
1/22/2019			0.15	
1/25/2019				0.019
6/24/2019		0.12		
6/25/2019	0.082		0.16	0.018
9/10/2019		0.16		
9/11/2019	0.094			0.02
9/12/2019			0.32	

# Sen's Slope Estimator

Constituent: Barium, Beryllium Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-25	GWC-34	GWA-1 (bg)
8/30/2011	0.033			
9/16/2011			0.01	<0.0025
9/17/2011		0.016		
10/26/2011	0.028			
10/27/2011				<0.0025
10/31/2011		0.013	0.0089	
12/3/2011	0.03			
12/12/2011			0.011	
12/13/2011				<0.0025
12/14/2011		0.018		
1/31/2012				<0.0025
2/1/2012			0.011	
2/7/2012		0.033		
2/9/2012	0.029			
7/11/2012	0.03			
7/16/2012			0.011	
7/17/2012		0.025		
7/18/2012				<0.0025
1/8/2013	0.036			
1/22/2013			0.011	
1/24/2013				<0.0025
7/16/2013	0.034			
7/17/2013			0.011	<0.0025
7/24/2013		0.043		
1/14/2014	0.037			
1/21/2014				<0.0025
1/23/2014		0.025	0.0097	
6/24/2014	0.032			
6/25/2014			0.011	<0.0025
7/8/2014		0.046		
1/13/2015	0.034			
1/14/2015			0.011	<0.0025
1/21/2015		0.023		
7/21/2015				<0.0025
7/23/2015	0.03			
7/29/2015			0.011	
7/30/2015		0.022		
1/21/2016		0.028	0.012	7.5E-05 (J)
1/27/2016	0.032			
3/23/2016				<0.0025
3/24/2016			0.0132	
3/28/2016		0.0383		
3/30/2016	0.0349			
5/20/2016				<0.0025
5/23/2016			0.0119	
5/25/2016		0.0439		
5/26/2016	0.0323			
7/21/2016			0.011	<0.0025
7/25/2016	0.031			
7/27/2016		0.037		
9/15/2016			0.012	<0.0025
9/19/2016	0.028	0.041		

# Sen's Slope Estimator

Constituent: Barium, Beryllium Analysis Run 11/14/2019 5:25 PM View: Trend Test  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-25	GWC-34	GWA-1 (bg)
11/11/2016				<0.0025
11/15/2016		0.033	0.011	
11/17/2016	0.033			
1/19/2017				<0.0025
1/24/2017		0.04		
1/25/2017			0.011	
2/1/2017	0.037			
3/16/2017				<0.0025
3/22/2017			0.01	
3/23/2017		0.032		
3/24/2017	0.037			
4/28/2017				<0.0025
5/1/2017			0.012	
5/2/2017		0.041		
5/3/2017	0.034			
8/3/2017		0.012		<0.0025
8/7/2017	0.035			
1/19/2018				<0.0025
1/23/2018			0.011	
1/25/2018	0.033	0.036		
6/19/2018				<0.0025
6/20/2018			0.012	
6/21/2018	0.033			
6/27/2018		0.036		
1/17/2019				7.4E-05 (J)
1/24/2019		0.03		
1/28/2019	0.037		0.013	
6/24/2019				0.00029 (J)
6/25/2019		0.032		
6/26/2019			0.011	
6/27/2019	0.035			
9/9/2019				0.00019 (J)
9/11/2019	0.04	0.056	0.014	



# Sen's Slope Estimator

Constituent: Beryllium Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
8/31/2011				<0.001
9/16/2011		<0.0025		
9/17/2011	<0.001		<0.0013	
10/27/2011	<0.001			
10/28/2011		<0.0025	<0.0013	
12/12/2011		<0.0025	0.0015	
12/14/2011	<0.001			
1/25/2012		<0.0025		
1/31/2012			0.0016	
2/7/2012	<0.001			
7/16/2012		<0.0025		
7/17/2012			0.002	
7/23/2012	<0.001			
1/23/2013	<0.001			
1/24/2013		<0.0025	0.0025	
7/23/2013		<0.0025		
7/24/2013	<0.001		0.0027	
1/22/2014	<0.001	0.00034 (J)	0.002	
6/25/2014				<0.001
7/1/2014	<0.001	0.00039 (J)		
7/8/2014			0.0024 (D)	
1/21/2015		0.0005 (J)	0.0026	
1/22/2015	0.00011 (J)			
7/21/2015		0.00042 (J)		<0.001
7/22/2015	<0.001		0.0024	
1/19/2016			0.0024 (D)	
1/20/2016	0.00012 (J)			
1/22/2016		0.00044 (J)		
3/22/2016		<0.0025	0.00194 (J)	
3/23/2016	<0.001			
3/31/2016				<0.001
5/19/2016			0.00188 (J)	
5/23/2016		<0.0025		
5/24/2016	<0.001			
5/25/2016				<0.001
7/21/2016			0.0021 (J)	
7/25/2016		0.00037 (J)		
7/26/2016	<0.001			
7/27/2016				<0.001
9/15/2016		0.00039 (J)		
9/16/2016	<0.001			
11/9/2016		0.00041 (J)		
11/10/2016	<0.001			
1/17/2017		0.0004 (J)	0.0024 (J)	
1/19/2017	<0.001			
3/16/2017		<0.0025		
3/17/2017	<0.001			
4/27/2017		0.00042 (J)	0.0019 (J)	
4/28/2017	<0.001			
7/18/2017			0.0018 (J)	
8/1/2017		0.0004 (J)	0.0019 (J)	<0.001
8/2/2017	<0.001			

# Sen's Slope Estimator

Constituent: Beryllium Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
10/3/2017				<0.001
1/19/2018	<0.001	0.00045 (J)	0.0018 (J)	
6/19/2018	<0.001	0.00038 (J)	0.0021 (J)	
6/20/2018				<0.001
1/17/2019	<0.001			
1/18/2019			0.0021 (J)	<0.001
1/21/2019		0.00041 (J)		
6/24/2019	0.00023 (J)			
6/25/2019		0.00039 (J)	0.0023	<0.001
9/10/2019	<0.001	0.00049 (J)	0.0023	
9/11/2019				0.0003 (J)

# Sen's Slope Estimator

Constituent: Beryllium, Boron    Analysis Run 11/14/2019 5:25 PM    View: Trend Test

Plant Wansley    Client: Southern Company    Data: Wansley Landfill

	GWA-4 (bg)	GWC-32	GWA-1 (bg)	GWA-2 (bg)
8/31/2011	<0.001			
9/15/2011		<0.0013		
10/27/2011	<0.001			
10/31/2011		<0.0013		
12/13/2011		<0.0013		
12/14/2011	<0.001			
2/1/2012	<0.001	<0.0013		
7/17/2012		<0.0013		
7/23/2012	<0.001			
1/23/2013	<0.001	<0.0013		
7/17/2013	<0.001			
7/24/2013		<0.0013		
1/15/2014	<0.001			
1/23/2014		0.00068 (J)		
6/25/2014	<0.001			
7/1/2014		0.00062 (J)		
1/14/2015	<0.001			
1/20/2015		0.00066 (J)		
7/21/2015	<0.001			
7/30/2015		0.001 (J)		
1/20/2016	<0.001			
1/25/2016		0.00066 (J)		
3/23/2016	<0.001	0.000735 (J)	<0.08	<0.08
5/19/2016	<0.001			
5/20/2016			<0.08	
5/24/2016		0.00134 (J)		<0.08
7/21/2016	<0.001		<0.08	
7/22/2016		0.0012 (J)		
7/26/2016				<0.08
9/14/2016	<0.001			
9/15/2016			<0.08	
9/16/2016		0.0015 (J)		<0.08
11/10/2016	<0.001			<0.08
11/11/2016			<0.08	
11/15/2016		0.0015 (J)		
1/17/2017	<0.001			
1/19/2017			<0.08	<0.08
1/26/2017		0.001 (J)		
3/16/2017	<0.001		<0.08	
3/17/2017				<0.08
3/24/2017		0.0016 (J)		
4/27/2017	<0.001			
4/28/2017			<0.08	<0.08
5/2/2017		0.0012 (J)		
8/2/2017	<0.001			
8/3/2017		0.0018 (J)		
10/3/2017				<0.08
10/4/2017			<0.08	
1/19/2018			<0.08	<0.08
1/22/2018	<0.001			
1/23/2018		0.0018 (J)		
6/19/2018	<0.001		<0.08	<0.08

# Sen's Slope Estimator

Constituent: Beryllium, Boron Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-32	GWA-1 (bg)	GWA-2 (bg)
6/26/2018		0.0015 (J)		
9/25/2018			<0.08	<0.08
1/17/2019	<0.001		<0.08	<0.08
1/30/2019		0.0016 (J)		
6/24/2019	<0.001		0.034 (J)	<0.08
6/27/2019		0.0017		
9/9/2019			<0.08	
9/10/2019	<0.001			<0.08
9/12/2019		0.0019		

# Sen's Slope Estimator

Constituent: Boron Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
3/22/2016	<0.08	<0.08		
3/23/2016				<0.08
3/31/2016			<0.08	
5/19/2016		<0.08		<0.08
5/23/2016	<0.08			
5/25/2016			<0.08	
7/21/2016		<0.08		<0.08
7/25/2016	<0.08			
7/27/2016			<0.08	
9/14/2016				<0.08
9/15/2016	<0.08			
11/9/2016	<0.08			
11/10/2016				<0.08
1/17/2017	<0.08	<0.08		<0.08
3/16/2017	<0.08			<0.08
4/27/2017	<0.08	<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
1/19/2018	<0.08	<0.08		
1/22/2018				<0.08
6/19/2018	<0.08	<0.08		<0.08
6/20/2018			<0.08	
9/25/2018	<0.08	<0.08		<0.08
1/17/2019				<0.08
1/18/2019		<0.08	<0.08	
1/21/2019	<0.08			
6/24/2019				<0.08
6/25/2019	<0.08	<0.08	<0.08	
9/10/2019	<0.08	<0.08		<0.08
9/11/2019			<0.08	

# Sen's Slope Estimator

Constituent: Boron, Chloride Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-9	GWA-1 (bg)	GWA-2 (bg)
3/23/2016			1.8057	2.5102
3/29/2016		0.0635 (J)		
3/30/2016	0.291			
5/20/2016			1.84	
5/24/2016		0.0981 (J)		4.52
5/25/2016	0.443			
7/21/2016			1.9	
7/25/2016		0.26		
7/26/2016	1.1			4
9/15/2016	0.61		1.8	
9/16/2016				4.1
9/19/2016		0.38		
11/10/2016				4.6
11/11/2016			1.8	
11/16/2016		0.44		
11/17/2016	1			
1/19/2017			1.8	5.6
1/31/2017		0.11		
2/1/2017	0.29			
3/16/2017			1.7	
3/17/2017				4.4
3/23/2017	0.44	0.071		
4/28/2017			1.7	4.7
5/2/2017		0.089		
5/3/2017	0.44			
10/3/2017		0.12		4.7
10/4/2017	0.95		1.7	
1/19/2018			1.6	4.3
1/24/2018		0.044 (J)		
1/25/2018	0.43			
6/19/2018			1.7	3.6
6/20/2018	1.2			
6/21/2018		0.07		
9/25/2018			1.7	4.9
9/26/2018		0.14		
10/1/2018	0.57			
1/17/2019			1.8	3.7
1/22/2019	0.63	0.038 (J)		
6/24/2019			1.7	6.1
6/25/2019	0.71	0.068 (J)		
9/9/2019			1.9	
9/10/2019				5.1
9/12/2019	1.8			
9/16/2019		0.19		

# Sen's Slope Estimator

Constituent: Chloride Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
3/22/2016	1.3716	1.5096		
3/23/2016				9.041
3/31/2016			8.3045	
5/19/2016		1.51		13.1
5/23/2016	1.33			
5/25/2016			10.1	
7/21/2016		1.6		17
7/25/2016	1.4			
7/27/2016			10	
9/14/2016				17
9/15/2016	1.3			
11/9/2016	1.4			
11/10/2016				23
1/17/2017	1.3	1.3		14
3/16/2017	1.2			16
4/27/2017	1.2	1.4		15
7/18/2017		1.2		
8/1/2017		1.3		
10/3/2017	1.2	1.2	9.5	17
1/19/2018	1.1	1		
1/22/2018				15
6/19/2018	1.2	1.2		12
6/20/2018			12	
9/25/2018	1.2	1.2		17
1/17/2019				11
1/18/2019		1.3	19	
1/21/2019	1.2			
6/24/2019				11
6/25/2019	1.3	24	<1	
9/10/2019	1.3	1.3		17
9/11/2019			22	

# Sen's Slope Estimator

Constituent: Chloride, Chromium    Analysis Run 11/14/2019 5:25 PM    View: Trend Test

Plant Wansley    Client: Southern Company    Data: Wansley Landfill

	GWC-14	GWC-9	GWA-1 (bg)	GWA-2 (bg)
9/16/2011			0.0015	
9/17/2011				<0.0025
10/27/2011			<0.0025	<0.0025
12/13/2011			<0.0025	
12/14/2011				<0.0025
1/31/2012			<0.0025	
2/7/2012				<0.0025
7/18/2012			<0.0025	
7/23/2012				<0.0025
1/23/2013				<0.0025
1/24/2013			<0.0025	
7/17/2013			<0.0025	
7/24/2013				<0.0025
1/21/2014			<0.0025	
1/22/2014				<0.0025
6/25/2014			<0.0025	
7/1/2014				<0.0025
1/14/2015			<0.0025	
1/22/2015				<0.0025
7/21/2015			<0.0025	
7/22/2015				<0.0025
1/20/2016				<0.0025
1/21/2016			<0.0025	
3/23/2016			<0.0025	<0.0025
3/29/2016		7.395		
3/30/2016	49.11			
5/20/2016			<0.0025	
5/24/2016		16.4		<0.0025
5/25/2016	65.8			
7/21/2016			<0.0025	
7/25/2016		55		
7/26/2016	64			<0.0025
9/15/2016	110		<0.0025	
9/16/2016				0.0019 (J)
9/19/2016		73		
11/10/2016				<0.0025
11/11/2016			<0.0025	
11/16/2016		83		
11/17/2016	180			
1/19/2017			<0.0025	<0.0025
1/31/2017		17		
2/1/2017	46			
3/16/2017			<0.0025	
3/17/2017				<0.0025
3/23/2017	68	8.2		
4/28/2017			<0.0025	<0.0025
5/2/2017		11		
5/3/2017	49			
8/2/2017				<0.0025
8/3/2017			<0.0025	
10/3/2017		10		
10/4/2017	160			



# Sen's Slope Estimator

Constituent: Chloride, Chromium Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-9	GWA-1 (bg)	GWA-2 (bg)
1/19/2018			<0.0025	<0.0025
1/24/2018		5.6		
1/25/2018	52			
6/19/2018			<0.0025	0.0011 (J)
6/20/2018	150			
6/21/2018		4.5		
9/26/2018		19		
10/1/2018	74			
1/17/2019			0.0012 (J)	0.0016 (J)
1/22/2019	80	2.3		
6/24/2019			0.0042	0.0022
6/25/2019	82	7.7		
9/9/2019			0.0017 (J)	
9/10/2019				0.0019 (J)
9/12/2019	190			
9/16/2019		29		

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
8/31/2011			<0.002	0.0014
9/16/2011	<0.0025			
9/17/2011		<0.0025		
10/27/2011				<0.002
10/28/2011	<0.0025	<0.0025		
12/12/2011	<0.0025	<0.0025		
12/14/2011				<0.002
1/25/2012	<0.0025			
1/31/2012		<0.0025		
2/1/2012				<0.002
7/16/2012	<0.0025			
7/17/2012		<0.0025		
7/23/2012				0.0014
1/23/2013				<0.002
1/24/2013	<0.0025	<0.0025		
7/17/2013				<0.002
7/23/2013	<0.0025			
7/24/2013		0.0013		
1/15/2014				<0.002
1/22/2014	0.002	<0.0025		
6/25/2014			<0.002	<0.002
7/1/2014	<0.0025			
7/8/2014		<0.0025 (D)		
1/14/2015				<0.002
1/21/2015	<0.0025	<0.0025		
7/21/2015	<0.0025		<0.002	<0.002
7/22/2015		<0.0025		
1/19/2016		<0.0025 (D)		
1/20/2016				<0.002
1/22/2016	<0.0025			
3/22/2016	<0.0025	<0.0025		
3/23/2016				<0.002
3/31/2016			<0.002	
5/19/2016		0.00684 (J)		<0.002
5/23/2016	<0.0025			
5/25/2016			<0.002	
7/21/2016		<0.0025		<0.002
7/25/2016	<0.0025			
7/27/2016			<0.002	
9/14/2016				<0.002
9/15/2016	0.0082			
11/9/2016	0.0044			
11/10/2016				<0.002
1/17/2017	<0.0025	<0.0025		<0.002
3/16/2017	<0.0025			<0.002
4/27/2017	<0.0025	<0.0025		<0.002
7/18/2017		<0.0025		
8/1/2017	<0.0025	0.0015 (J)	<0.002	
8/2/2017				<0.002
10/3/2017			0.0013 (J)	
1/19/2018	<0.0025	<0.0025		
1/22/2018				<0.002

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
6/19/2018	<0.0025	<0.0025		<0.002
6/20/2018			<0.002	
1/17/2019				0.0013 (J)
1/18/2019		0.002 (J)	0.0017 (J)	
1/21/2019	0.0014 (J)			
6/24/2019				0.0022
6/25/2019	0.0024	0.003	0.0027	
9/10/2019	0.0018 (J)	0.0019 (J)		<0.002
9/11/2019			<0.002	

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-16	GWC-20	GWC-26
8/30/2011		0.0028		
8/31/2011			0.0016	
9/13/2011	0.0019			
9/17/2011				0.0018
10/26/2011		0.0023		
10/27/2011			<0.0025	
10/28/2011	<0.0025			
10/29/2011				<0.0025
12/4/2011	<0.0025		<0.0025	
12/14/2011				<0.0025
1/24/2012	<0.0025			
2/7/2012				<0.0025
2/8/2012			<0.0025	
7/11/2012	<0.0025	0.0022	<0.0025	
7/17/2012				<0.0025
1/8/2013	<0.0025	0.0023	<0.0025	
1/24/2013				<0.0025
7/2/2013		0.0024		
7/10/2013	<0.0025			
7/16/2013			<0.0025	
7/24/2013				<0.0025
1/14/2014		0.0023		
1/21/2014	<0.0025		<0.0025	
1/23/2014				<0.0025
6/24/2014			<0.0025	
6/25/2014		0.0024		
7/1/2014	<0.0025			
7/8/2014				<0.0025
1/13/2015		0.0024	<0.0025	
1/21/2015	<0.0025			<0.0025
7/22/2015		0.0023		
7/23/2015			<0.0025	
7/28/2015	<0.0025			
7/31/2015				<0.0025
1/25/2016				<0.0025
1/27/2016	<0.0025	0.0022	<0.0025	
3/24/2016				<0.0025
3/29/2016	<0.0025			
3/30/2016		0.00261 (J)	<0.0025	
5/25/2016	<0.0025	0.00238 (J)		<0.0025
5/26/2016			<0.0025	
7/25/2016			<0.0025	
7/26/2016	<0.0025			<0.0025
7/27/2016		0.0025		
9/15/2016	<0.0025			
9/16/2016		0.0023 (J)		
9/19/2016				<0.0025
9/20/2016			<0.0025	
11/14/2016				<0.0025
11/17/2016	<0.0025	0.0022 (J)	<0.0025	
1/19/2017				<0.0025
1/31/2017	<0.0025			

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-16	GWC-20	GWC-26
2/1/2017		0.0024 (J)		
2/2/2017			<0.0025	
3/16/2017				<0.0025
3/23/2017	<0.0025			
3/24/2017		0.0026		
3/28/2017			<0.0025	
5/1/2017				<0.0025
5/3/2017	<0.0025	0.0022 (J)		
5/4/2017			<0.0025	
8/3/2017				<0.0025
8/4/2017	<0.0025			
8/7/2017		0.0023 (J)	0.0017 (J)	
1/22/2018				<0.0025
1/25/2018	<0.0025	0.0023 (J)		
1/26/2018			<0.0025	
6/20/2018	<0.0025	0.0025		
6/21/2018			<0.0025	
6/27/2018				<0.0025
1/22/2019	0.0013 (J)			
1/24/2019				0.0018 (J)
1/28/2019			0.0011 (J)	
6/25/2019	0.0022	0.0045	0.0023	0.003
9/11/2019		0.0043	0.0027	
9/12/2019	0.0027			0.0033

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-35	GWC-5	GWC-6
8/31/2011			<0.0025	<0.0025
9/16/2011	<0.0025	<0.0025		
10/27/2011			<0.0025	
10/31/2011	<0.0025	<0.0025		
12/5/2011			<0.0025	<0.0025
12/12/2011	<0.0025	<0.0025		
1/25/2012			<0.0025	<0.0025
2/1/2012	<0.0025	<0.0025		
7/16/2012	<0.0025	<0.0025		
7/18/2012			<0.0025	
7/24/2012				<0.0025
1/8/2013				<0.0025
1/9/2013			<0.0025	
1/22/2013	<0.0025	<0.0025		
7/2/2013		<0.0025		
7/9/2013				<0.0025
7/17/2013	<0.0025		<0.0025	
1/15/2014			<0.0025	<0.0025
1/21/2014		<0.0025		
1/23/2014	<0.0025			
6/25/2014	<0.0025	<0.0025	<0.0025	<0.0025
1/13/2015			0.0012 (J)	
1/14/2015	<0.0025	<0.0025		
1/20/2015				<0.0025
7/24/2015			<0.0025	<0.0025
7/28/2015		<0.0025		
7/29/2015	<0.0025			
1/20/2016			<0.0025	<0.0025
1/21/2016	<0.0025	<0.0025		
3/24/2016	<0.0025	<0.0025		
3/28/2016			<0.0025	<0.0025
5/23/2016	<0.0025	<0.0025	<0.0025	
5/24/2016				<0.0025
7/21/2016	<0.0025	<0.0025	0.0011 (J)	<0.0025
9/15/2016	<0.0025	<0.0025	<0.0025	<0.0025
11/15/2016	<0.0025	<0.0025	<0.0025	
11/16/2016				<0.0025
1/25/2017	<0.0025			
1/26/2017		<0.0025	0.0013 (J)	<0.0025
3/22/2017	<0.0025	<0.0025		<0.0025
5/1/2017	<0.0025			
5/2/2017		<0.0025	<0.0025	<0.0025
8/3/2017	<0.0025	<0.0025	<0.0025	<0.0025
1/23/2018	<0.0025	<0.0025	<0.0025	<0.0025
6/19/2018		<0.0025		
6/20/2018	<0.0025			
6/25/2018			<0.0025	<0.0025
1/21/2019		0.0013 (J)		
1/28/2019	0.00076 (J)			
1/30/2019			0.0021 (J)	0.002 (J)
6/26/2019	0.0022	0.0022	0.0029	0.0027
9/11/2019	0.0034			

# Sen's Slope Estimator

Constituent: Chromium Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-34	GWC-35	GWC-5	GWC-6
9/12/2019		0.0026	0.0033	0.0049

# Sen's Slope Estimator

Constituent: Cobalt    Analysis Run 11/14/2019 5:25 PM    View: Trend Test

Plant Wansley    Client: Southern Company    Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
9/16/2011	<0.0025		<0.0005	
9/17/2011		<0.0025		<0.0025
10/27/2011	<0.0025	<0.0025		
10/28/2011			<0.0005	<0.0025
12/12/2011			<0.0005	<0.0025
12/13/2011	<0.0025			
12/14/2011		<0.0025		
1/25/2012			<0.0005	
1/31/2012	<0.0025			<0.0025
2/7/2012		<0.0025		
7/16/2012			<0.0005	
7/17/2012				<0.0025
7/18/2012	<0.0025			
7/23/2012		<0.0025		
1/23/2013		<0.0025		
1/24/2013	<0.0025		<0.0005	<0.0025
7/17/2013	<0.0025			
7/23/2013			<0.0005	
7/24/2013		<0.0025		<0.0025
1/21/2014	<0.0025			
1/22/2014		<0.0025	<0.0005	<0.0025
6/25/2014	<0.0025			
7/1/2014		0.00056 (J)	<0.0005	
7/8/2014				<0.0025
1/14/2015	0.00068 (J)			
1/21/2015			<0.0005	<0.0025
1/22/2015		0.00067 (J)		
7/21/2015	<0.0025		<0.0005	
7/22/2015		<0.0025		<0.0025
1/19/2016				<0.0025 (D)
1/20/2016		<0.0025		
1/21/2016	<0.0025			
1/22/2016			<0.0005	
3/22/2016			<0.0005	<0.0025
3/23/2016	<0.0025	<0.0025		
5/19/2016				<0.0025
5/20/2016	<0.0025			
5/23/2016			<0.0005	
5/24/2016		<0.0025		
7/21/2016	<0.0025			<0.0025
7/25/2016			<0.0005	
7/26/2016		<0.0025		
9/15/2016	<0.0025		<0.0005	
9/16/2016		0.0011 (J)		
11/9/2016			<0.0005	
11/10/2016		<0.0025		
11/11/2016	<0.0025			
1/17/2017			<0.0005	<0.0025
1/19/2017	<0.0025	<0.0025		
3/16/2017	<0.0025		<0.0005	
3/17/2017		<0.0025		
4/27/2017			<0.0005	<0.0025



# Sen's Slope Estimator

Constituent: Cobalt Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)
4/28/2017	0.00044 (J)	0.00045 (J)		
7/18/2017				<0.0025
8/1/2017			<0.0005	<0.0025
8/2/2017		<0.0025		
8/3/2017	<0.0025			
1/19/2018	<0.0025	<0.0025	<0.0005	<0.0025
6/19/2018	<0.0025	0.00061 (J)	<0.0005	<0.0025
1/17/2019	0.00033 (J)	0.00018 (J)		
1/18/2019				<0.0025
1/21/2019			<0.0005	
6/24/2019	0.00019 (J)	0.00019 (J)		
6/25/2019			<0.0005	0.00012 (J)
9/9/2019	0.00019 (J)			
9/10/2019		0.00029 (J)	<0.0005	8.9E-05 (J)

# Sen's Slope Estimator

Constituent: Cobalt, Copper    Analysis Run 11/14/2019 5:25 PM    View: Trend Test

Plant Wansley    Client: Southern Company    Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-14	GWA-1 (bg)
8/31/2011	0.0028	0.0028		
9/13/2011			<0.0013	
9/16/2011				<0.002
10/27/2011		<0.0025		<0.002
12/3/2011			0.0037	
12/13/2011				<0.002
12/14/2011		<0.0025		
1/24/2012			0.021	
1/31/2012				<0.002
2/1/2012		0.0027		
7/11/2012			<0.0013	
7/18/2012				<0.002
7/23/2012		0.0073		
1/8/2013			<0.0013	
1/23/2013		0.0029		
1/24/2013				<0.002
7/10/2013			0.0014	
7/17/2013		0.0033		<0.002
1/15/2014		0.0076		
1/21/2014				<0.002
6/25/2014	0.00075 (J)	0.0044		<0.002
7/1/2014			0.0011 (J)	
1/14/2015		0.015	0.019	<0.002
7/21/2015	0.00066 (J)	0.0053		<0.002
7/22/2015			0.016	
1/20/2016		0.0034		
1/21/2016				<0.002
1/27/2016			0.45	
3/23/2016		0.00443 (J)		
3/30/2016			0.176	
3/31/2016	<0.0025			
4/20/2016			0.13	
5/19/2016		0.00361 (J)		
5/25/2016	<0.0025		0.0616	
7/21/2016		0.0058		
7/26/2016			0.32	
7/27/2016	<0.0025			
9/14/2016		0.0075		
9/15/2016			0.014	
11/10/2016		0.01		
11/17/2016			0.01	
1/17/2017		0.013		
1/19/2017				<0.002
2/1/2017			0.2	
3/16/2017		0.0059		
3/23/2017			0.14	
4/27/2017		0.0052		
5/3/2017			0.23	
8/1/2017	<0.0025			
8/2/2017		0.005		
8/3/2017				<0.002
8/7/2017			0.026	

# Sen's Slope Estimator

Constituent: Cobalt, Copper Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3 (bg)	GWA-4 (bg)	GWC-14	GWA-1 (bg)
10/3/2017	<0.0025			
1/19/2018				<0.002
1/22/2018		0.0046		
1/25/2018			0.23	
6/19/2018		0.005		<0.002
6/20/2018	<0.0025		0.048	
1/17/2019		0.0038		<0.002
1/18/2019	0.00011 (J)			
1/22/2019			0.22	
6/24/2019		0.006		<0.002
6/25/2019	0.00042 (J)		0.23	
9/9/2019				<0.002
9/10/2019		0.0062		
9/11/2019	0.00017 (J)			
9/12/2019			0.013	

# Sen's Slope Estimator

Constituent: Copper Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
8/31/2011				<0.002
9/16/2011		<0.002		
9/17/2011	<0.002		<0.013	
10/27/2011	<0.002			
10/28/2011		<0.002	<0.013	
12/12/2011		<0.002	<0.013	
12/14/2011	<0.002			
1/25/2012		<0.002		
1/31/2012			0.018	
2/7/2012	<0.002			
7/16/2012		<0.002		
7/17/2012			0.0066	
7/23/2012	<0.002			
1/23/2013	<0.002			
1/24/2013		<0.002	0.015	
7/23/2013		<0.002		
7/24/2013	<0.002		0.015	
1/22/2014	<0.002	0.0012 (J)	0.015	
6/25/2014				0.0016 (J)
7/1/2014	0.0011 (J)	<0.002		
7/8/2014			0.0081 (D)	
1/21/2015		<0.002	0.0088	
1/22/2015	<0.002			
7/21/2015		<0.002		<0.002
7/22/2015	0.0012 (J)		0.0072	
1/19/2016			0.0083 (D)	
1/20/2016	<0.002			
1/22/2016		<0.002		
1/17/2017		<0.002	0.0065	
1/19/2017	<0.002			
8/1/2017		<0.002	0.0044	<0.002
8/2/2017	<0.002			
1/19/2018	<0.002	<0.002	0.0046	
6/19/2018	<0.002	<0.002	0.0063	
6/20/2018				<0.002
1/17/2019	<0.002			
1/18/2019			0.0059	<0.002
1/21/2019		<0.002		
6/24/2019	0.0011 (J)			
6/25/2019		<0.002	0.0085	0.004
9/10/2019	0.0014 (J)	<0.002	0.0074	
9/11/2019				0.0015 (J)

# Sen's Slope Estimator

Constituent: Copper, Mercury Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-25	GWC-31	GWA-1 (bg)
8/31/2011	<0.002			
9/16/2011				<0.0002
9/17/2011		<0.0025	<0.0025	
10/27/2011	<0.002			<0.0002
10/31/2011		<0.0025	<0.0025	
12/13/2011				<0.0002
12/14/2011	<0.002	<0.0025		
1/31/2012				<0.0002
2/1/2012	<0.002			
2/7/2012		<0.0025	<0.0025	
7/17/2012		<0.0025		
7/18/2012				<0.0002
7/23/2012	<0.002			
1/23/2013	<0.002		<0.0025	
1/24/2013				<0.0002
7/17/2013	<0.002			<0.0002
7/24/2013		<0.0025		
1/15/2014	<0.002			
1/21/2014				<0.0002
1/23/2014		0.0034 (J)	0.0018 (J)	
6/25/2014	<0.002			<0.0002
7/1/2014			0.0048 (J)	
7/8/2014		0.0017 (J)		
1/14/2015	<0.002			<0.0002
1/21/2015		<0.0025	<0.0025	
7/21/2015	<0.002			<0.0002
7/30/2015		0.0028 (J)		
1/20/2016	<0.002			
1/21/2016		0.0029 (J)		<0.0002
1/25/2016			<0.0025	
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
1/17/2017	<0.002			
1/19/2017				<0.0002
1/24/2017		<0.0025		
1/25/2017			<0.0025	
3/16/2017				0.00015 (J)
4/28/2017				<0.0002
8/2/2017	<0.002			
8/3/2017		<0.0025		<0.0002
8/4/2017			0.003	
1/19/2018				<0.0002
1/22/2018	<0.002			
1/23/2018			0.0022 (J)	
1/25/2018		<0.0025		
6/19/2018	<0.002			<0.0002
6/27/2018		<0.0025	0.0036	
1/17/2019	<0.002			<0.0002
1/24/2019		0.003		

# Sen's Slope Estimator

Constituent: Copper, Mercury Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-4 (bg)	GWC-25	GWC-31	GWA-1 (bg)
1/31/2019			0.00064 (J)	
6/24/2019	<0.002			<0.0002
6/25/2019		0.0029		
6/26/2019			0.0019 (J)	
9/9/2019				<0.0002
9/10/2019	<0.002			
9/11/2019		0.0072	0.0063	

# Sen's Slope Estimator

Constituent: Mercury Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
8/31/2011				<0.0002
9/16/2011		<0.0002		
9/17/2011	<0.0002		<0.0002	
10/27/2011	<0.0002			
10/28/2011		<0.0002	<0.0002	
12/12/2011		<0.0002	<0.0002	
12/14/2011	<0.0002			
1/25/2012		<0.0002		
1/31/2012			<0.0002	
2/7/2012	<0.0002			
7/16/2012		<0.0002		
7/17/2012			<0.0002	
7/23/2012	<0.0002			
1/23/2013	<0.0002			
1/24/2013		<0.0002	<0.0002	
7/23/2013		<0.0002		
7/24/2013	<0.0002		<0.0002	
1/22/2014	<0.0002	<0.0002	<0.0002	
6/25/2014				<0.0002
7/1/2014	<0.0002	<0.0002		
7/8/2014			<0.0002 (D)	
1/21/2015		<0.0002	<0.0002	
1/22/2015	<0.0002			
7/21/2015		<0.0002		<0.0002
7/22/2015	<0.0002		<0.0002	
1/19/2016			<0.0002 (D)	
1/20/2016	<0.0002			
1/22/2016		<0.0002		
3/22/2016		<0.0002	<0.0002	
3/23/2016	<0.0002			
3/31/2016				<0.0002
5/19/2016			<0.0002	
5/23/2016		<0.0002		
5/24/2016	<0.0002			
5/25/2016				<0.0002
7/21/2016			<0.0002	
7/25/2016		8.9E-05 (J)		
7/26/2016	0.00012 (J)			
7/27/2016				0.00011 (J)
9/15/2016		<0.0002		
9/16/2016	<0.0002			
11/9/2016		<0.0002		
11/10/2016	<0.0002			
1/17/2017		<0.0002	<0.0002	
1/19/2017	<0.0002			
3/16/2017		0.00016 (J)		
3/17/2017	0.00015 (J)			
4/27/2017		<0.0002	<0.0002	
4/28/2017	<0.0002			
7/18/2017			<0.0002	
8/1/2017		<0.0002	<0.0002	<0.0002
8/2/2017	<0.0002			

# Sen's Slope Estimator

Constituent: Mercury Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
10/3/2017				<0.0002
1/19/2018	<0.0002	<0.0002	<0.0002	
6/19/2018	<0.0002	<0.0002	<0.0002	
6/20/2018				<0.0002
1/17/2019	<0.0002			
1/18/2019			<0.0002	<0.0002
1/21/2019		<0.0002		
6/24/2019	<0.0002			
6/25/2019		<0.0002	<0.0002	<0.0002
9/10/2019	<0.0002	<0.0002	0.00021	
9/11/2019				<0.0002



# Sen's Slope Estimator

Constituent: Mercury, Nickel Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-8	GWA-1 (bg)	GWA-2 (bg)
8/31/2011	<0.0002			
9/7/2011		<0.0002		
9/16/2011			<0.0025	
9/17/2011				<0.0025
10/27/2011	<0.0002		<0.0025	<0.0025
10/30/2011		<0.0002		
12/5/2011		<0.0002		
12/13/2011			<0.0025	
12/14/2011	<0.0002			<0.0025
1/19/2012		<0.0002		
1/31/2012			<0.0025	
2/1/2012	<0.0002			
2/7/2012				0.0028
7/18/2012		<0.0002	<0.0025	
7/23/2012	<0.0002			<0.0025
1/7/2013		<0.0002		
1/23/2013	<0.0002			<0.0025
1/24/2013			<0.0025	
7/9/2013		<0.0002		
7/17/2013	<0.0002		<0.0025	
7/24/2013				<0.0025
1/14/2014		0.000153 (J)		
1/15/2014	<0.0002			
1/21/2014			<0.0025	
1/22/2014				0.0013 (J)
6/24/2014		<0.0002		
6/25/2014	<0.0002		<0.0025	
7/1/2014				0.0014 (J)
1/14/2015	<0.0002		<0.0025	
1/20/2015		<0.0002		
1/22/2015				0.0017 (J)
7/21/2015	<0.0002		<0.0025	
7/22/2015				0.0013 (J)
7/27/2015		<0.0002		
1/20/2016	<0.0002			<0.0025
1/21/2016			<0.0025	
1/26/2016		<0.0002		
3/23/2016	<0.0002			
3/29/2016		<0.0002		
5/19/2016	<0.0002			
5/24/2016		<0.0002		
7/21/2016	8.7E-05 (J)			
7/26/2016		0.00012 (J)		
9/14/2016	<0.0002			
9/19/2016		<0.0002		
11/10/2016	<0.0002			
11/16/2016		<0.0002		
1/17/2017	<0.0002			
1/19/2017			<0.0025	<0.0025
1/26/2017		<0.0002		
3/16/2017	0.00016 (J)			
3/23/2017		7.2E-05 (J)		

# Sen's Slope Estimator

Constituent: Mercury, Nickel Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-8	GWA-1 (bg)	GWA-2 (bg)
4/27/2017	<0.0002			
5/3/2017		<0.0002		
8/2/2017	<0.0002			<0.0025
8/3/2017			<0.0025	
8/7/2017		<0.0002		
1/19/2018			<0.0025	<0.0025
1/22/2018	<0.0002			
1/24/2018		<0.0002		
6/19/2018	<0.0002		<0.0025	<0.0025
6/21/2018		<0.0002		
1/17/2019	<0.0002		0.00094 (J)	0.0011
1/22/2019		<0.0002		
6/24/2019	<0.0002		0.00095 (J)	0.0013
6/25/2019		<0.0002		
9/9/2019			0.00099 (J)	
9/10/2019	<0.0002	0.0004		0.0014

# Sen's Slope Estimator

Constituent: Nickel Analysis Run 11/14/2019 5:25 PM View: Trend Test  
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
8/31/2011			<0.0025	<0.0025
9/16/2011	<0.0025			
9/17/2011		0.0053		
10/27/2011				<0.0025
10/28/2011	<0.0025	0.0042		
12/12/2011	<0.0025	<0.0025		
12/14/2011				<0.0025
1/25/2012	<0.0025			
1/31/2012		0.0043		
2/1/2012				<0.0025
7/16/2012	<0.0025			
7/17/2012		<0.0025		
7/23/2012				<0.0025
1/23/2013				<0.0025
1/24/2013	<0.0025	0.0052		
7/17/2013				<0.0025
7/23/2013	<0.0025			
7/24/2013		0.0052		
1/15/2014				<0.0025
1/22/2014	0.00092 (J)	0.0031		
6/25/2014			0.0044	<0.0025
7/1/2014	<0.0025			
7/8/2014		0.0036 (D)		
1/21/2015	<0.0025	0.0026		
7/21/2015	<0.0025		0.0056	<0.0025
7/22/2015		0.0028		
1/19/2016		0.0021 (JD)		
1/20/2016				0.002 (J)
1/22/2016	<0.0025			
1/17/2017	<0.0025	0.0022 (J)		
8/1/2017	<0.0025	0.0018 (J)	<0.0025	
8/2/2017				<0.0025
1/19/2018	<0.0025	<0.0025		
1/22/2018				<0.0025
6/19/2018	<0.0025	0.0024 (J)		0.0022 (J)
6/20/2018			<0.0025	
1/18/2019		0.0022	0.00087 (J)	
1/21/2019	0.0004 (J)			
6/24/2019				0.0022
6/25/2019	0.00088 (J)	0.0028	0.0021	
9/10/2019	0.00047 (J)	0.0024		0.0017
9/11/2019			0.0022	

# Sen's Slope Estimator

Constituent: Nickel, pH Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-25	GWC-6	GWA-1 (bg)
8/31/2011			0.0072	
9/13/2011	<0.0025			
9/17/2011		<0.0025		
10/27/2011	<0.0025			
10/30/2011			0.0055	
10/31/2011		<0.0025		
12/3/2011	<0.0025			
12/5/2011			0.0026	
12/14/2011		<0.0025		
1/24/2012	<0.0025			
1/25/2012			<0.0025	
2/7/2012		<0.0025		
7/11/2012	<0.0025			
7/17/2012		0.014		
7/24/2012			0.003	
1/8/2013	<0.0025		0.0036	
7/9/2013			0.0038	
7/10/2013	<0.0025			
7/24/2013		0.019		
1/15/2014			0.0049	
1/21/2014	0.0041			
1/23/2014		0.0036		
6/25/2014			0.0037	
7/1/2014	0.0017 (J)			
7/8/2014		0.011		
1/14/2015	0.0064			
1/20/2015			0.0035	
1/21/2015		0.0033		
7/22/2015	0.0089			
7/24/2015			0.0048	
7/30/2015		0.0054		
1/20/2016			0.0044	
1/21/2016		0.0054		5.03
1/27/2016	0.014			
3/23/2016				5.56
4/20/2016	0.013			
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
1/24/2017		0.012		
1/26/2017			0.005	
2/1/2017	0.013			
3/16/2017				5.25
4/28/2017				5.35
8/3/2017		<0.0025	0.0051	5.32 (D)
8/7/2017	0.018			
1/19/2018				5.39 (D)
1/23/2018			0.0054	
1/25/2018	0.013	0.0071		
6/19/2018				5.27

# Sen's Slope Estimator

Constituent: Nickel, pH Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-25	GWC-6	GWA-1 (bg)
6/20/2018	0.015			
6/25/2018			0.0056	
6/27/2018		0.0072		
9/25/2018				5.27
1/17/2019				5.43
1/22/2019	0.014			
1/24/2019		0.0027		
1/30/2019			0.0057	
6/24/2019				5.3
6/25/2019	0.016	0.0021		
6/26/2019			0.0052	
9/9/2019				5.37
9/11/2019		0.024		
9/12/2019	0.016		0.0099	

# Sen's Slope Estimator

Constituent: pH Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)
1/19/2016			5.92	
1/20/2016	5.47			
1/22/2016		6.27		
3/22/2016		6.72	5.92	
3/23/2016	5.85			
5/19/2016			5.95	
5/23/2016		6.29		
5/24/2016	5.86			
5/25/2016				6.48
7/21/2016			6.049508	
7/25/2016		6.178217		
7/26/2016	5.808275			
7/27/2016				6.43219
9/15/2016			6.444541	
9/16/2016		6.545359		
11/9/2016		6		
11/10/2016	5.63			
1/17/2017		6.09		
1/19/2017	5.63			
3/15/2017			5.86	
3/16/2017		5.98		
3/17/2017	5.68			
4/27/2017		5.96	5.85	
4/28/2017	5.77			
8/1/2017		6.01 (D)	5.86 (D)	6.35 (D)
8/2/2017	5.67 (D)			
1/19/2018	5.68 (D)	6.15 (D)	5.83 (D)	
6/19/2018	5.84	5.96	5.77	
6/20/2018				6.28
9/25/2018	5.52	5.94	5.92	
1/17/2019	5.81			6.06
1/18/2019			5.86	
1/21/2019		5.92		
6/24/2019	5.75			5.68
6/25/2019		6.03	5.96	5.58
9/10/2019	5.63	5.79	5.94	
9/11/2019				5.49

# Sen's Slope Estimator

Constituent: pH, Silver Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4 (bg)	GWC-10	GWA-1 (bg)	GWA-2 (bg)
9/16/2011			<0.001	
9/17/2011				<0.001
10/27/2011			<0.001	<0.001
12/13/2011			<0.001	
12/14/2011				<0.001
1/31/2012			<0.001	
2/7/2012				<0.001
7/18/2012			<0.001	
7/23/2012				<0.001
1/23/2013				<0.001
1/24/2013			<0.001	
7/17/2013			<0.001	
7/24/2013				<0.001
1/21/2014			<0.001	
1/22/2014				<0.001
6/25/2014			<0.001	
7/1/2014				<0.001
1/14/2015			<0.001	
1/22/2015				<0.001
7/21/2015			<0.001	
7/22/2015				<0.001
1/20/2016				<0.001
1/21/2016			<0.001	
1/25/2016		6.27		
5/19/2016	6.45			
5/25/2016		6.44		
7/21/2016	6.449699			
7/27/2016		6.364588		
9/14/2016	6.396439			
9/16/2016		6.202937		
11/10/2016	6.19			
11/17/2016		5.95		
1/17/2017	6.18			
1/19/2017			<0.001	<0.001
1/31/2017		6.47		
3/16/2017	6.1			
4/28/2017	6.51			
5/2/2017		6.69		
8/2/2017	6.23 (D)			<0.001
8/3/2017			<0.001	
8/8/2017		6.67 (D)		
1/19/2018			<0.001	<0.001
1/22/2018	6.3 (D)			
1/24/2018		6.47 (D)		
6/19/2018	6.2		<0.001	<0.001
6/21/2018		5.76		
9/25/2018	6.21			
9/27/2018		5.5		
1/17/2019	6.29		<0.001	<0.001
1/31/2019		5.75		
6/24/2019	6.12		<0.001	<0.001
6/26/2019		5.78		

# Sen's Slope Estimator

Constituent: pH, Silver Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWA-4 (bg)	GWC-10	GWA-1 (bg)	GWA-2 (bg)
9/9/2019			<0.001	
9/10/2019	6.18			<0.001
9/17/2019		5.55		



# Sen's Slope Estimator

Constituent: Silver Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)
8/31/2011			<0.001	<0.001
9/16/2011	<0.001			
9/17/2011		<0.0025		
10/27/2011				<0.001
10/28/2011	<0.001	<0.0025		
12/12/2011	<0.001	<0.0025		
12/14/2011				<0.001
1/25/2012	<0.001			
1/31/2012		<0.0025		
2/1/2012				<0.001
7/16/2012	<0.001			
7/17/2012		<0.0025		
7/23/2012				<0.001
1/23/2013				<0.001
1/24/2013	<0.001	<0.0025		
7/17/2013				<0.001
7/23/2013	<0.001			
7/24/2013		0.003		
1/15/2014				<0.001
1/22/2014	<0.001	0.0011 (J)		
6/25/2014			<0.001	<0.001
7/1/2014	<0.001			
7/8/2014		0.0013 (JD)		
1/14/2015				<0.001
1/21/2015	<0.001	0.00071 (J)		
7/21/2015	<0.001		<0.001	<0.001
7/22/2015		0.00059 (J)		
1/19/2016		0.0011 (JD)		
1/20/2016				<0.001
1/22/2016	<0.001			
1/17/2017	<0.001	0.0015		<0.001
8/1/2017	<0.001	0.00098 (J)	<0.001	
8/2/2017				<0.001
1/19/2018	<0.001	0.00081 (J)		
1/22/2018				<0.001
6/19/2018	<0.001	0.0009 (J)		<0.001
6/20/2018			<0.001	
1/17/2019				<0.001
1/18/2019		0.00061 (J)	<0.001	
1/21/2019	<0.001			
6/24/2019				<0.001
6/25/2019	<0.001	0.0017	<0.001	
9/10/2019	<0.001	0.0015		<0.001
9/11/2019			<0.001	

# Sen's Slope Estimator

Constituent: Silver, Sulfate Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)
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)			
1/21/2015	<0.001			
1/25/2016	<0.001			
3/22/2016				1.1423
3/23/2016		<1	1.001	
5/20/2016		<1		
5/23/2016				1.44
5/24/2016			0.576 (J)	
7/21/2016		<1		
7/25/2016				1.1
7/26/2016			0.91 (J)	
9/15/2016		<1		0.99 (J)
9/16/2016			0.87 (J)	
11/9/2016				1.1
11/10/2016			0.79 (J)	
11/11/2016		<1		
1/17/2017				0.85 (J)
1/19/2017		<1	0.87 (J)	
1/25/2017	0.00087			
3/16/2017		<1		1.2
3/17/2017			1.8	
4/27/2017				<1
4/28/2017		<1	1.7	
8/4/2017	0.0005 (J)			
10/3/2017			1.9	1.4
10/4/2017		<1		
1/19/2018		<1	1.8	1.1
1/23/2018	0.00023 (J)			
6/19/2018		<1	1	0.94 (J)
6/27/2018	0.00016 (J)			
9/25/2018		<1	0.78 (J)	1.3
1/17/2019		0.5 (J)	2.5	
1/21/2019				1.6
1/31/2019	0.00036 (J)			
6/24/2019		<1	0.91 (J)	
6/25/2019				2.2
6/26/2019	<0.001			
9/9/2019		<1		
9/10/2019			0.9 (J)	1.3
9/11/2019	0.0078			

# Sen's Slope Estimator

Constituent: Sulfate Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-12
3/22/2016	8.4662			
3/23/2016			9.0208	
3/29/2016				19.1889
3/31/2016		202.982		
5/19/2016	10		10	
5/25/2016		95.7		19.8
7/21/2016	13		10	
7/22/2016				20
7/27/2016		110		
9/14/2016			9.7	
9/15/2016				20
11/10/2016			8.1	
11/16/2016				19
1/17/2017	7.6		15	
1/31/2017				23
3/16/2017			9.1	
3/23/2017				23
4/27/2017	8		9.6	
5/3/2017				22
7/18/2017	6			
8/1/2017	7.7			
10/3/2017	7	150	9.8	
10/4/2017				22
1/19/2018	5.7			
1/22/2018			10	
1/24/2018				22
6/19/2018	7		10	
6/20/2018		100		
6/26/2018				23
9/25/2018	9.1		9.7	
9/28/2018				24
1/17/2019			9.4	
1/18/2019	6.4	34		
1/25/2019				25
6/24/2019			10	
6/25/2019	26	<1		
6/26/2019				25
9/10/2019	9.2		11	
9/11/2019		43		26

# Sen's Slope Estimator

Constituent: Sulfate, Zinc Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)
9/16/2011		0.0071		0.003
9/17/2011			0.0061	
10/27/2011		0.0062	0.0059	
10/28/2011				0.0073
12/12/2011				0.0053
12/13/2011		0.0065		
12/14/2011			0.0077	
1/25/2012				0.0046
1/31/2012		0.0047		
2/7/2012			0.0053	
7/16/2012				0.0034
7/18/2012		0.0044		
7/23/2012			0.0043	
1/23/2013			0.0054	
1/24/2013		0.0058		0.0049
7/17/2013		0.0028		
7/23/2013				0.0026
7/24/2013			0.004	
1/21/2014		0.0037		
1/22/2014			0.0056	0.0052
6/25/2014		0.0026		
7/1/2014			0.004	0.0042
1/14/2015		0.003		
1/21/2015				0.0038
1/22/2015			0.0051	
7/21/2015		0.0033		0.0042
7/22/2015			0.0033	
1/20/2016			0.0029	
1/21/2016		0.0043		
1/22/2016				0.0041
3/28/2016	19.9405			
5/23/2016	21			
7/21/2016	17			
9/15/2016	16			
11/15/2016	15			
1/17/2017				<0.02
1/19/2017		0.0077 (J)	<0.02	
1/26/2017	13			
3/22/2017	13			
5/2/2017	25			
8/1/2017				<0.02
8/2/2017			<0.02	
8/3/2017		<0.02		
10/3/2017	21			
1/19/2018		<0.02	<0.02	<0.02
1/23/2018	26			
6/19/2018		0.0068 (J)	<0.02	<0.02
6/25/2018	30			
10/3/2018	29			
1/17/2019		0.0037 (J)	0.0024 (J)	
1/21/2019				0.0065
1/30/2019	31			

# Sen's Slope Estimator

Constituent: Sulfate, Zinc Analysis Run 11/14/2019 5:25 PM View: Trend Test  
Plant Wansley Client: Southern Company Data: Wansley Landfill

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	GWC-5	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)
6/24/2019		0.0048 (J)	0.0046 (J)	
6/25/2019				0.011
6/26/2019	31			
9/9/2019		0.0064		
9/10/2019			0.0064	0.01
9/12/2019	34			

# Sen's Slope Estimator

Constituent: Zinc Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-12
8/31/2011		0.0037	<0.005	
9/13/2011				<0.005
9/17/2011	0.026			
10/27/2011			<0.005	
10/28/2011	0.019			<0.005
12/4/2011				0.0027
12/12/2011	0.02			
12/14/2011			<0.005	
1/24/2012				<0.005
1/31/2012	0.036			
2/1/2012			<0.005	
7/11/2012				<0.005
7/17/2012	0.015			
7/23/2012			0.0037	
1/8/2013				<0.005
1/23/2013			<0.005	
1/24/2013	0.048			
7/10/2013				<0.005
7/17/2013			<0.005	
7/24/2013	0.048			
1/15/2014			0.00085 (J)	
1/21/2014				0.0019 (J)
1/22/2014	0.044			
6/25/2014		0.015	0.0014 (J)	
7/8/2014	0.04 (D)			
1/14/2015			0.0082	
1/21/2015	0.037			<0.005
7/21/2015		0.042	0.0015 (J)	
7/22/2015	0.031			
7/28/2015				<0.005
1/19/2016	0.035 (D)			
1/20/2016			0.0093	
1/26/2016				<0.005
1/17/2017	0.024			
1/31/2017				<0.005
8/1/2017	0.028	<0.02		
8/2/2017			<0.005	
8/7/2017				<0.005
1/19/2018	0.024			
1/22/2018			<0.005	
1/24/2018				<0.005
6/19/2018	0.028		<0.005	
6/20/2018		<0.02		
6/26/2018				<0.005
1/17/2019			<0.005	
1/18/2019	0.022	0.0088		
1/25/2019				<0.005
6/24/2019			0.0036 (J)	
6/25/2019	0.041	0.014		
6/26/2019				<0.005
9/10/2019	0.031		0.006	
9/11/2019		0.02		0.0056

# Sen's Slope Estimator

Constituent: Zinc Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-16	GWC-17
8/30/2011				0.0035
9/13/2011	<0.005	0.0039		
10/26/2011			0.0035	0.0032
10/27/2011		0.0046		
10/28/2011	<0.005			
12/3/2011		0.0028	0.0033	0.0027
12/4/2011	0.0028			
1/24/2012	<0.005	0.0033		
1/25/2012			<0.005	<0.005
7/11/2012	<0.005	<0.0025	<0.005	<0.005
1/8/2013	<0.005	<0.0025	<0.005	<0.005
7/2/2013			<0.005	
7/10/2013	<0.005	<0.0025		
7/16/2013				<0.005
1/14/2014			0.00074 (J)	0.0021 (J)
1/21/2014	0.0026	0.0036		
6/25/2014			0.00071 (J)	0.0012 (J)
7/1/2014	0.0014 (J)	0.0018 (J)		
1/13/2015			0.0015 (J)	
1/14/2015		0.0035		0.0015 (J)
1/21/2015	0.0018 (J)			
7/22/2015		0.005	<0.005	
7/28/2015	<0.005			<0.005
1/27/2016	<0.005	0.0094	<0.005	<0.005
1/31/2017	<0.005			
2/1/2017		0.0084 (J)	<0.005	<0.005
8/4/2017	<0.005			
8/7/2017		0.012 (J)	<0.005	<0.005
1/25/2018	<0.005	0.0095 (J)	<0.005	<0.005
6/20/2018	<0.005	0.012 (J)	<0.005	
6/26/2018				<0.005
1/22/2019	<0.005	0.0094		
1/24/2019				<0.005
1/25/2019			<0.005	
6/25/2019	<0.005	0.014	<0.005	<0.005
9/11/2019			0.0062	0.012
9/12/2019	0.0085	0.019		

# Sen's Slope Estimator

Constituent: Zinc    Analysis Run 11/14/2019 5:25 PM    View: Trend Test

Plant Wansley    Client: Southern Company    Data: Wansley Landfill

	GWC-25	GWC-30	GWC-31	GWC-34
9/15/2011		<0.005		
9/16/2011				0.0029
9/17/2011	0.0028		0.02	
10/28/2011		0.0062		
10/31/2011	0.003		0.028	<0.005
12/12/2011				0.0027
12/13/2011		0.003		
12/14/2011	0.0029			
2/1/2012				<0.005
2/7/2012	0.0092		0.0091	
2/8/2012		0.009		
7/16/2012				<0.005
7/17/2012	0.01			
7/18/2012		<0.005		
1/22/2013				<0.005
1/23/2013			0.014	
1/24/2013		0.0066		
7/17/2013				<0.005
7/24/2013	0.033	<0.005		
1/23/2014	0.015	0.0028	0.012	0.0034
6/25/2014				0.00083 (J)
7/1/2014		0.0014 (J)	0.015	
7/8/2014	0.011			
1/14/2015				0.0014 (J)
1/20/2015		<0.005		
1/21/2015	0.0057		0.0081	
7/29/2015				<0.005
7/30/2015	0.0072	<0.005		
1/19/2016		<0.005		
1/21/2016	0.017			<0.005
1/25/2016			0.0067	
1/24/2017	0.0085 (J)	<0.005		
1/25/2017			<0.02	<0.005
8/3/2017	<0.02			<0.005
8/4/2017		<0.005	0.033	
1/23/2018			0.026	<0.005
1/24/2018		<0.005		
1/25/2018	0.009 (J)			
6/20/2018				<0.005
6/21/2018		<0.005		
6/27/2018	0.0086 (J)		0.012 (J)	
1/24/2019	0.013			
1/28/2019				0.0031 (J)
1/30/2019		<0.005		
1/31/2019			0.008	
6/25/2019	0.01			
6/26/2019			0.011	<0.005
6/27/2019		<0.005		
9/10/2019		0.019		
9/11/2019	0.037		0.081	0.0068



# Sen's Slope Estimator

Constituent: Zinc Analysis Run 11/14/2019 5:25 PM View: Trend Test

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-6	GWC-7
8/31/2011	<0.005	0.0037	
9/7/2011			<0.005
10/27/2011	0.0025		
10/30/2011		0.0043	<0.005
12/5/2011	<0.005	0.0047	<0.005
1/25/2012	<0.005	<0.005	<0.005
7/18/2012	<0.005		0.0035
7/24/2012		<0.005	
1/7/2013			0.0033
1/8/2013		<0.005	
1/9/2013	<0.005		
7/9/2013		<0.005	0.0035
7/17/2013	0.0043		
1/14/2014			0.0022 (J)
1/15/2014	0.0023 (J)	0.0034	
6/25/2014	0.0022 (J)	0.002 (J)	
1/13/2015	0.0027		
1/20/2015		<0.005	0.0018 (J)
7/24/2015	0.002 (J)	0.0017 (J)	
7/27/2015			<0.005
1/20/2016	0.0022 (J)	0.0018 (J)	
1/26/2016			0.0016 (J)
1/26/2017	<0.005	<0.005	<0.005
8/3/2017	<0.005	<0.005	
8/4/2017			<0.005
1/23/2018	<0.005	<0.005	<0.005
6/25/2018	<0.005	<0.005	<0.005
1/21/2019			<0.005
1/30/2019	<0.005	<0.005	
6/25/2019			<0.005
6/26/2019	<0.005	0.0033 (J)	
9/10/2019			0.0063
9/12/2019	0.0067	0.049	



**ATLANTIC COAST  
CONSULTING, INC.**

Roswell, GA  
1150 Northmeadow Pkwy.  
Suite 100  
Roswell, GA 30076  
Phone: 770.594.5998

Savannah, GA  
7 East Congress Street  
Suite 801  
Savannah, GA 31401  
Phone: 912.236.3471

Knoxville, TN  
212 S. Peters Road  
Suite 203  
Knoxville, TN 37923  
Phone: 865.531.9143