



*Prepared for*

**Georgia Power Company**  
241 Ralph McGill Blvd NE  
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**2020 SEMIANNUAL GROUNDWATER  
MONITORING AND CORRECTIVE  
ACTION REPORT  
PLANT HAMMOND HUFFAKER ROAD LANDFILL**

*Prepared by*

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Project Number GW6581B

August 2020

**CERTIFICATION STATEMENT**

This 2020 *Semiannual Groundwater Monitoring and Corrective Action Report - Plant Hammond – Huffaker Road Landfill* has been prepared in accordance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations 257 Subpart D], specifically 40 CFR 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management, Rule 391-3-4-.10 Coal Combustion Residuals and Rule 391-3-4-.14 Groundwater Monitoring and Corrective Action by a qualified groundwater scientist or engineer with Geosyntec Consultants.



A handwritten signature in black ink that reads "Whitney B. Law".

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August 31, 2020  
Date

**TABLE OF CONTENTS**

1.0 INTRODUCTION ..... 1

    1.1 Site Description and Background ..... 1

    1.2 Regional Geology and Hydrogeologic Setting ..... 2

    1.3 Groundwater Monitoring Well Network ..... 3

    1.4 Landfill Underdrain Monitoring Point ..... 4

2.0 GROUNDWATER MONITORING ACTIVITIES ..... 5

    2.1 Monitoring Well Installation and Maintenance ..... 5

    2.2 Alternate Source Demonstrations ..... 5

    2.3 Detection Monitoring ..... 6

3.0 SAMPLE METHODOLOGY & ANALYSIS ..... 7

    3.1 Groundwater Level Measurement ..... 7

    3.2 Groundwater Gradient and Flow Velocity ..... 7

    3.3 Groundwater Sampling Procedures ..... 8

    3.4 Laboratory Analyses ..... 9

    3.5 Quality Assurance and Quality Control ..... 9

4.0 STATISTICAL ANALYSES ..... 11

    4.1 Statistical Methods ..... 11

        4.1.1 Statistical Methods – Appendix III Parameters ..... 11

        4.1.2 Statistical Methods – Appendix I D&O Parameters ..... 12

    4.2 Statistical Analysis Results ..... 12

5.0 MONITORING PROGRAM STATUS ..... 15

6.0 CONCLUSIONS AND FUTURE ACTIONS ..... 16

7.0 REFERENCES ..... 17

## LIST OF TABLES

Table 1	Monitoring Well Network Summary
Table 2	Groundwater Sampling Event Summary
Table 3	Summary of Groundwater Elevations
Table 4	Groundwater Gradient and Flow Velocity Calculations
Table 5	Summary of Groundwater Analytical Data

## LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Monitoring Well Network Map
Figure 3	Potentiometric Surface Contour Map – March 2020

## LIST OF APPENDICES

Appendix A	Certified Survey Data
Appendix B	Well Inspection Forms
Appendix C	Prepared Alternate Source Demonstration
Appendix D	Laboratory Analytical and Field Sampling Reports
Appendix E	Statistical Analyses



## LIST OF ACRONYMS

ASD	Alternate Source Demonstration
cm/sec	centimeters per second
CCR	coal combustion residual
CFR	Code of Federal Regulations
D&O	Design and Operations
DO	dissolved oxygen
ft	feet
ft MSL	feet mean sea level
ft/ft	feet per foot
ft/day	feet per day
GA EPD	Georgia Environmental Protection Division
GCS	Groundwater Stats Consulting
Georgia Power	Georgia Power Company
MCL	maximum contaminant level
mg/L	milligrams per liter
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric Turbidity Unit
ORP	Oxidation/Reduction Potential
Pace Analytical	Pace Analytical Services, LLC.
PE	professional engineer
PL	prediction limit
PQL	practical quantitation limit
QA/QC	quality assurance/quality control
ROS	regression on order statistics
SAR	Site Acceptability Report
SCS	Southern Company Services
SSI	statistically significant increase
SM	standard method
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

## 1.0 INTRODUCTION

Groundwater monitoring is currently conducted at the Georgia Power Company (Georgia Power) Plant Hammond, Huffaker Road Landfill (the landfill or the site) to comply with the landfill's Solid Waste permit number 057-022D (LI) (the permit), as issued by the Georgia Environmental Protection Division (GA EPD), and in accordance with Georgia Solid Waste Management Rules for Groundwater Monitoring and Corrective Action of a municipal solid waste landfill, Rule 391-3-4.14. The landfill is also subject to the United States Environmental Protection Agency (USEPA) coal combustion residual rule (CCR Rule) [40 Code of Federal Regulations (CFR) 257 Subpart D] and the GA EPD Rules for Solid Waste Management 391-3-4-.10. Geosyntec Consultants has prepared this *2020 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities at Georgia Power Plant Hammond Huffaker Road Landfill. This report documents groundwater monitoring activities completed for the landfill from January through August 2020. This report satisfies the reporting requirements of applicable GA EPD Solid Waste Management Rules (391-3-4-.14) and federal and state CCR Rule [40 CFR 257.90(e), 391-3-4-.10]. For ease of reference when discussing aspects of the CCR Rule, only the USEPA CCR rules are cited within this report.

### 1.1 Site Description and Background

The Huffaker Road Landfill is a Georgia Power-owned property located in Floyd County approximately five miles northeast of Plant Hammond (**Figure 1**). The landfill was built between 2005 and 2007 over a closed surface clay mine, previously owned by Boral Bricks, Inc. The landfill is comprised of constructed Parcels A, B, and E, with Parcels C and D proposed for future expansion. The three existing parcels were permitted and constructed with a minimum 24-inch compacted clay liner with a maximum hydraulic conductivity of  $1 \times 10^{-6}$  centimeters per second (cm/sec) underlain with a compacted soil barrier designed to provide a minimum five-foot thick barrier between the bottom of the clay liner and seasonal high groundwater levels. GA EPD approved Solid Waste Permit No. 057-022D (LI) in a letter dated May 26, 2006, and disposal operations commenced on May 5, 2008. No CCR materials were stored in the landfill prior to May 2008 (ERM, 2018). In 2016, Parcels A and B were retrofitted with a leachate collection system and a 60-mil HDPE geomembrane overlaying the 24-inch clay liner, which was recompacted to obtain a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec (Georgia Power, 2016).

Based on discussions with Georgia Power personnel, Parcels A and B have historically received coal ash whereas Parcel E has typically received gypsum. Currently, Parcels A and B are active, and Parcel E is temporarily inactive and covered with an intermediate closure system of 18-in of soil compacted to obtain a maximum hydraulic conductivity of  $1 \times 10^{-6}$  cm/sec.

A groundwater monitoring plan was developed as part of the landfill's pre-construction Design and Operations (D&O) Plan and approved in September 2004 with subsequent modifications submitted to GA EPD in September 2005, April 2009, and May 2013. Groundwater monitoring in accordance with the D&O Plan began in 2007, prior to disposal activities, and continues to date. The D&O Plan stipulated the following parameters are to be analyzed by an accredited laboratory: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc. Field parameters that are to be recorded include: pH, temperature, turbidity, dissolved oxygen, specific conductance, and oxidation-reduction potential.

Groundwater monitoring and reporting activities in accordance with 40 CFR 257.90 through 257.94 of the federal CCR Rule were initiated in 2016. Pursuant to 40 CFR 257.94(b), the eight baseline sampling events were conducted March 2016 to March 2017, with the initial detection monitoring event occurring October 2017.

Groundwater samples from wells in the detection monitoring system are 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 GA 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, nickel, selenium, silver, thallium, vanadium, and zinc.

## **1.2 Regional Geology and Hydrogeologic Setting**

The regional geology was summarized in the Southern Company Services (SCS) prepared Site Acceptability Report (SAR) (SCS, 2002) based on the work of Cressler (1970). The landfill is located in the Floyd Shale member of the Judy Mountain Syncline. The Floyd Shale is Mississippian in age and ranges from 200 to 1,200 feet thick in Floyd County. The unit is composed of clay and shale, transitioning to limestone at its base.

Boring logs presented in the SAR indicate sandy clayey silt and silty clay with rock fragments described as shale extending to depths of up to approximately 30 feet below ground surface. Underlying this material is a medium gray to dark gray and dark olive gray, heavily to moderately weathered shale. Rock cores collected at the site are described as slightly weathered to unweathered, thinly bedded shale. Descriptions provided in the boring logs are representative of recorded observations on the Floyd Shale.

The landfill is underlain by a regional unconfined groundwater aquifer that occurs within the overburden. Groundwater recharge at the landfill is from infiltration of precipitation. Prior site investigations indicate groundwater within the unconfined aquifer flows predominantly through the heavily to moderately weathered shale layer (SCS, 2002). Groundwater occurring in bedrock below the site is controlled by the degree of enhanced secondary permeability. In general, groundwater occurring in the bedrock is a result of water infiltrating through areas in the overburden where enhanced permeability exists. Review of the available boring logs does not identify a confined aquifer beneath the landfill.

### **1.3 Groundwater Monitoring Well Network**

The existing groundwater monitoring system meets the requirements listed in § 257.91 and 391-3-4.14, and (1) consists of a sufficient number of wells, (2) installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer, and (3) represents the groundwater quality both upgradient of the unit (i.e., background conditions) and passing the waste boundary of the unit. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions. Pursuant to the § 257.91, the well network was certified by a professional engineer (PE) on October 17, 2017; the certification is maintained in the site's operating records.

The certified compliance monitoring well network for the landfill consists of 17 wells installed between September 2001 and February 2007. Five monitoring well locations were designed to monitor background, upgradient groundwater quality conditions, with 12 wells installed downgradient of the landfill to serve as compliance wells. The locations of the compliance wells are presented on **Figure 2**; well construction details are listed in **Table 1**.

#### **1.4 Landfill Underdrain Monitoring Point**

In addition to the groundwater monitoring well network, the D&O Plan requires sampling the landfill underdrain monitoring point SWC-1 during each semiannual monitoring event and performing analysis for the same constituents monitored in groundwater. The monitoring point is located west of Parcels A and B, as shown on **Figure 2**. Historically, there has been no liquid discharge from this underdrain point in order to collect a sample. The discharge status of the monitoring point is confirmed during each sampling event.

## 2.0 GROUNDWATER MONITORING ACTIVITIES

The following describes monitoring-related activities performed during January through August 2020 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with § 257.93 and the D&O Plan.

### 2.1 Monitoring Well Installation and Maintenance

The landfill well network was re-surveyed by GEL Solutions June 15 through 17, 2020. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at each well pad were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. The new survey data are incorporated into this report's applicable tables; a copy of the well survey data certified by a Georgia-licensed surveyor is provided in **Appendix A**. A set of revised boring and well constructions logs that incorporate the new survey data will be submitted to EPD under separate cover in September 2020.

The well and piezometer networks are inspected during each groundwater monitoring event using GA EPD-based inspection criteria. Any issues identified with the wells (e.g., clogged weep holes within the outer protective casing, faded well identification signage, rusted locks and/or latches, etc.) are addressed before the following groundwater sampling event. The well inspection forms are provided in **Appendix B**.

### 2.2 Alternate Source Demonstrations

A statistically significant increase (SSI) of arsenic in compliance well GWC-7 was reported in the *2019 Annual Groundwater Monitoring Report* (Geosyntec, 2020a), which was submitted to GA EPD in January 2020. Pursuant to Rule 391-3-4-.14(23)(c), an Alternate Source Demonstration (ASD) was prepared that present multiple lines of evidence to demonstrate that the SSI of arsenic in well GWC-7 is not associated with a release from the landfill, but instead associated with natural variation in the groundwater quality. The completed ASD report is provided in **Appendix C**.

ASDs have been previously prepared to address SSIs of the following parameters at the indicated wells: barium (GWC-8 and GWC-10); chloride (GWC-8); cobalt (GWC-7); nickel (GWC-7); pH (GWC-8); sulfate (GWC-20), TDS (GWC-6 and GWC-8); and zinc

(GWC-7). These ASDs were previously provided under separate report covers (Geosyntec, 2019c, 2019d, 2020b).

### **2.3 Detection Monitoring**

Georgia Power currently monitors groundwater associated with the landfill under the detection groundwater monitoring program in accordance with Solid Waste Management Rule 391-3-4-.14(22) and federal CCR Rule 40 CFR 257.94. The detection and verification monitoring events occurred March and June 2020 (**Table 2**). Groundwater samples were collected from each compliance monitoring well shown on **Figure 2** and analyzed for the state-modified list of Appendix I parameters and Appendix III parameters stipulated by the August 2017 permit modification (Section 1.1). The analytical and statistical results of these events are discussed in Sections 3 and 4, respectively.

### 3.0 SAMPLE METHODOLOGY & ANALYSIS

The following section presents a summary of the field sampling procedures that were implemented and the groundwater sampling results that were obtained in connection with the detection monitoring program conducted during January through August 2020.

#### 3.1 Groundwater Level Measurement

Prior to a sitewide sampling event, a synoptic round of depth to groundwater level measurements are recorded from the monitoring well network and used to calculate the corresponding groundwater elevation. The calculated groundwater elevations for the March 2020 sampling event are presented in **Table 3**. The June 2020 survey data were used to calculate the groundwater elevations for the semiannual sampling event. Elevations reported using the new survey data are generally representative of the groundwater elevations reported for prior monitoring events.

The groundwater elevation data were used to prepare a potentiometric surface map for the March 2020 sampling event, which is presented on **Figure 3**. Interpretation of the potentiometric surface contours indicate that groundwater flow beneath the landfill is generally to the southeast in vicinity of Parcels A and B, and then south-southwest beneath Parcel E. These observed flow directions are consistent with previous observations.

#### 3.2 Groundwater Gradient and Flow Velocity

The groundwater hydraulic gradient beneath the landfill was calculated using the groundwater elevation data from the March 2020 event, and between two pairs of data points along interpreted groundwater flow paths to account for changing flow directions across the site, as discussed in Section 3.1. For Parcels A and B, the hydraulic gradient was calculated between wells GWA-1 and GWC-7; for Parcel E, wells GWC-9 and GWC-20 were used for the gradient calculation. The gradient calculations are presented in **Table 4**. The general trajectory of the flow paths used in the calculations are shown on **Figure 3**.

As presented in **Table 4**, the hydraulic gradient underneath Parcels A and B was calculated to be 0.021 feet per foot (ft/ft), whereas the hydraulic gradient underneath Parcel E equaled 0.017 ft/ft.

The horizontal groundwater flow velocity was calculated using Darcy's Law, as follows:



$$V = \text{linear velocity} = \frac{K_h \Delta h}{n \Delta l}$$

where:

$K_h$  = horizontal hydraulic conductivity

$$\frac{\Delta h}{\Delta l} = \text{hydraulic gradient} = \frac{(h_1 - h_2)}{L}$$

$n$  = effective porosity

$h_1$  and  $h_2$  = groundwater elevation at location 1 and 2

$L$  = distance between location 1 and 2

Prior site investigations indicate groundwater within the unconfined aquifer flows predominantly through the heavily to moderately weathered shale layer (SCS, 2002). The average hydraulic conductivity for this zone [0.248 feet per day (ft/day)] was computed from slug test data derived from five locations across the site (SCS, 2002). An estimated effective porosity of 0.20 is used for the flow rate calculation, based on interpreted values for weathered shale (Freeze/Cherry, 1979). With these variables determined, and accounting for the hydraulic gradients discussed above, the groundwater flow velocity underneath Parcels A and B was calculated to be 0.026 ft/day. Similarly, the flow velocity underneath Parcel E was calculated to be 0.021 ft/day. The flow velocity calculations are provided in **Table 4**.

### **3.3 Groundwater Sampling Procedures**

Groundwater samples were collected from the compliance monitoring well network in accordance with 40 CFR 257.93(a) and the D&O Plan using low-flow purging techniques performed with a peristaltic pump with disposable polyethylene tubing. The intake point of the tubing was lowered to the midpoint of the well screen. Each well was sampled with a new segment of tubing; all tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

A SmarTroll® or Aqua TROLL® (In-Situ® field instrument) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was monitored using a LaMotte 2020we®

turbidity meter. Groundwater samples were collected once the following stabilization criteria were met:

- $\pm 0.1$  standard units for pH
- $\pm 5\%$  for specific conductance
- $\pm 0.2$  milligrams per liter (mg/L) or 10% for DO  $> 0.5$  mg/L (whichever is greater). No criterion applies if DO  $< 0.5$  mg/L, record only.
- Turbidity measured less than 10 nephelometric turbidity units (NTU)

Following purging, once stabilization was achieved, samples were collected in laboratory-supplied plastic bottles. Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC. (Pace Analytical) in Norcross, Georgia following chain-of-custody protocol. The field sampling forms generated during the March and June 2020 monitoring events are provided in **Appendix D**.

### **3.4 Laboratory Analyses**

Laboratory analyses were performed by Pace Analytical, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Pace Analytical maintains a NELAP certification for the permit specified parameters analyzed for this project. Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in **Appendix D**.

The groundwater analytical results from the March 2020 detection and June verification monitoring events are summarized in **Table 5**. The Pace Analytical laboratory reports associated with these results are provided in **Appendix D**. The pH field measurements recorded during the detection monitoring and verification sampling events are also provided in **Table 5**.

### **3.5 Quality Assurance and Quality Control**

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events in accordance with the site's *Groundwater Monitoring Plan* (Geosyntec, 2018), and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in laboratory-provided bottles

and submitted under the same chain of custody as the primary samples for analysis of the same parameters by Pace Analytical.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The associated data validation report is provided in **Appendix D** with the laboratory reports.

## 4.0 STATISTICAL ANALYSES

The following section presents a summary of the statistical approach applied to assess the March 2020 groundwater data for potential SSIs of permit stipulated parameters reported in downgradient compliance wells relative to the available historical dataset. Because the landfill is currently independently managed under both Georgia's Solid Waste Management Rule 391-3-4.14 and Georgia's CCR Rule 391-3-4.10, which references the federal CCR Rule, two datasets are statistically evaluated per semiannual monitoring event. One dataset contains Appendix III parameters, which is applicable to both of the beforementioned rule sets. The other dataset contains the D&O-specified state-modified list of Appendix I parameters, applicable to Rule 391-3-4.14. The March 2020 data were analyzed by Groundwater Stats Consulting (GSC) (GSC, 2020).

### 4.1 Statistical Methods

Statistical analysis of the March 2020 groundwater data for Appendix III parameters was performed pursuant to 40 CFR 257.93 and in accordance with the PE-certified statistical method. Statistical analysis of the March 2020 groundwater data for D&O Appendix I parameters was performed pursuant to Rule 391-3-4.14 and in accordance with the *Background Data Screening & Recommended Statistical Methods* report prepared by Groundwater Stats Consulting in August 2019 and the USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009). The method proposed in the August 2019 report differed from that required by the D&O Plan. Georgia Power submitted a minor permit modification request to GA EPD to change the statistical methods; the minor modification request was approved by GA EPD in a letter dated August 20, 2019 (EPD, 2019).

The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance. Detailed statistical methods used for Appendix III and D&O Appendix I constituents are discussed in statistical analysis packages provided in **Appendix E** and summarized in Sections 4.1.1 and 4.1.2.

#### 4.1.1 Statistical Methods – Appendix III Parameters

The PE-certified statistical approach used to evaluate groundwater data for the landfill for Appendix III parameters is the intrawell prediction limit (PL) method combined with a 1-of-2 resample plan. The intrawell PLs utilize historical data from within a given well

to establish a statistical limit for comparison of compliance data at the same well. In this case, the data from the monitoring events conducted between March 2016 and November 2019 to establish background conditions. An “initial exceedance” occurs when any data from the well exceeds the PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective prediction limit, no exceedance is declared.

#### **4.1.2 Statistical Methods – Appendix I D&O Parameters**

The intrawell PL statistical approach was also used to evaluate groundwater data for the landfill for Appendix I D&O parameters with a 1-of-2 resample plan (Groundwater Stats, 2019). A 1-of-2 resample plan is sufficient because the dataset used to derive the PLs for the Appendix I constituents is larger since they have been monitored since 2007 and the data encompass sampling events from March 2007 to December 2018.

The following guidance is also applicable to the Appendix I and Appendix III statistical analysis methods:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA, 2009).
- When data contain less than or equal to 15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, a non-detect adjustment such as the Kaplan-Meier or Regression on Order Statistics (ROS) method for adjustment of the mean and standard deviation will be used prior to constructing a parametric PL.
- Nonparametric PLs are used on data containing greater than 50% non-detects.

#### **4.2 Statistical Analysis Results**

A statistical analysis package for the March 2020 detection monitoring event, and the associated verification sampling event, is provided in **Appendix E**. The statistical analysis of the March 2020 groundwater data identified initial PL exceedances for the

following Appendix III parameters at the indicated wells: boron (GWC-6 and GWC-8); calcium (GWC-19 and GWC-20); chloride (GWC-7); and pH (GWC-10). Verification groundwater samples were collected in June 2020 in accordance with the 1-of-2 resampling program. The results of the verification samples did not confirm the initial PL exceedances of boron at GWC-6, calcium, chloride, or pH. The verification measurement for boron at GWC-8 continued to be higher than its respective background limit. However, because this value is flagged by the laboratory with “J” to indicate the measurement is an estimated value (i.e. less than the reporting limit of 0.1 mg/L), it is not identified as statistically significant by the Sanitas software. Based on review of historical boron concentrations in GWC-8 and applying professional judgement to be more protective of groundwater, the concentration of boron at GWC-8 was identified as a verified SSI.

The statistical analyses of the Appendix I D&O parameters resulted in barium PL exceedances in GWC-8 and GWC-20. As discussed in Section 2.2, an ASD has been prepared that accounts for the elevated barium concentrations in well GWC-8. While the Sanitas software identified a statistical exceedance for barium in well GWC-20, it is due to a rounding issue rather than a statistical exceedance, which resulted from the number of significant figures reported for the June 2020 verification measurement of 0.14 mg/L when compared to its prediction limit of 0.1358 mg/L. Therefore, verification results did not confirm the initial PL exceedance of barium at GWC-20. The results of the statistical analyses for this reporting period are summarized in the table below:

<b>Currently Reported SSIs</b>				
<b>Location</b>	<b>Constituent</b>	<b>SSI Verification Status</b>	<b>ASD Status</b>	<b>Date of ASD</b>
GWC-6	Boron	Not verified	--	--
GWC-7	Chloride	Not verified	--	--
GWC-8	Barium	Verified	Completed	11/27/2019
GWC-8	Boron	Verified	In progress	--
GWC-10	pH	Not verified	--	--
GWC-19	Calcium	Not verified	--	--
GWC-20	Calcium	Not verified	--	--
GWC-20	Barium	Not verified	--	--

In accordance with 40 CFR 257.94(e)(2) and GA EPD Rules for Solid Waste Management 391-3-4-.14(23)(c), an ASD is being prepared to address the SSI of boron in well GWC-8 and will be submitted to the EPD no later than November 6, 2020.

## **5.0 MONITORING PROGRAM STATUS**

Groundwater monitoring at the landfill is currently being conducted under a detection monitoring program pursuant to both the Georgia Rule 391-3-4.14(21) and the federal CCR Rule 40 CFR 257.94. Georgia Power is currently preparing a demonstration that a source other than the landfill was the cause for a boron SSI identified during the first semiannual monitoring event per 40 CFR 257.94(e)(2) and Georgia Rule 391-3-4.14(23)(c).



## 6.0 CONCLUSIONS AND FUTURE ACTIONS

This *2020 Semiannual Groundwater Monitoring and Corrective Action Report* for Georgia Power's Plant Hammond Huffaker Road Landfill was prepared to fulfill the requirements of both applicable federal and state CCR Rules and GA EPD Solid Waste Management Rules (40 CFR 257.90(e), 391-3-4-.10, and 391-3-4-.14). Statistical evaluations of the groundwater monitoring data identified an SSI of boron during the first semiannual monitoring period. Georgia Power is currently preparing an alternate source demonstration to document that the SSI is not the result of a release from the CCR unit and will submit no later than November 6, 2020. The second semiannual groundwater monitoring event is planned for September 2020.

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# TABLES

**Table 1**  
**Monitoring Well Network Summary**  
**Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia**

<b>Well ID</b>	<b>Hydraulic Location</b>	<b>Installation Date</b>	<b>Northing<sup>(1)</sup></b>	<b>Easting<sup>(1)</sup></b>	<b>Top of Casing Elevation<sup>(2)</sup> (ft)</b>	<b>Top of Screen Elevation<sup>(2)</sup> (ft)</b>	<b>Bottom of Screen Elevation<sup>(2)</sup> (ft)</b>	<b>Well Depth<sup>(3)</sup> (ft BTOC)</b>	<b>Screen Interval Length (ft)</b>
GWA-1	Upgradient	9/11/2001	1565643.81	1952067.94	701.96	672.96	662.96	39.30	10
GWA-2	Upgradient	2/5/2007	1565590.06	1952640.89	681.59	666.08	656.08	25.81	10
GWA-3	Upgradient	2/6/2007	1565520.24	1953199.93	659.24	648.45	638.45	21.09	10
GWA-4	Upgradient	2/6/2007	1565519.87	1953687.10	656.93	845.84	635.84	21.39	10
GWA-11	Upgradient	7/21/2006	1564946.55	1952008.03	682.36	656.76	646.76	35.90	10
GWC-5	Downgradient	2/7/2007	1565159.15	1953566.67	649.42	638.31	628.31	21.41	10
GWC-6	Downgradient	7/20/2006	1564397.56	1953919.86	656.35	624.07	614.07	42.58	10
GWC-7	Downgradient	7/19/2006	1564079.14	1953595.85	657.20	635.59	625.59	31.91	10
GWC-8	Downgradient	7/18/2006	1564000.62	1953095.72	656.64	639.81	629.81	27.13	10
GWC-9	Downgradient	7/18/2006	1563876.81	1952392.97	659.46	617.85	607.85	51.91	10
GWC-10	Downgradient	7/20/2006	1564308.39	1951975.66	667.58	643.90	633.90	33.98	10
GWC-18	Downgradient	7/12/2006	1563320.44	1953391.49	641.31	594.59	584.59	57.02	10
GWC-19	Downgradient	7/11/2006	1562843.12	1952979.72	642.89	595.91	585.91	57.51	10
GWC-20	Downgradient	7/17/2006	1562472.78	1952332.31	625.76	601.88	591.88	34.18	10
GWC-21	Downgradient	7/12/2006	1562099.56	1951612.93	618.33	610.65	600.65	18.23	10
GWC-22	Downgradient	7/13/2006	1562778.89	1951618.67	625.00	593.39	583.39	41.91	10
GWC-23	Downgradient	7/19/2006	1563558.66	1951604.97	654.84	615.41	605.41	49.73	10

Notes:

- ft = feet
- ft BTOC = feet below top of casing
- (1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey completed by GEL Solutions obtained June 26, 2020.
- (2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by GEL Solutions obtained June 26, 2020.
- (3) Total well depth accounts for sump if data provided on well construction logs.

**Table 2**  
**Groundwater Sampling Event Summary**  
**Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia**

Well ID	Hydraulic Location	March 25-31, 2020	Jun 18-19, 2020	Status of Monitoring Well
		Detection	Verification	
GWA-1	Upgradient	X	--	Detection
GWA-2	Upgradient	X	--	Detection
GWA-3	Upgradient	X	--	Detection
GWA-4	Upgradient	X	--	Detection
GWA-11	Upgradient	X	--	Detection
GWC-5	Downgradient	X	--	Detection
GWC-6	Downgradient	X	X	Detection
GWC-7	Downgradient	X	X	Detection
GWC-8	Downgradient	X	X	Detection
GWC-9	Downgradient	X	--	Detection
GWC-10	Downgradient	X	X	Detection
GWC-18	Downgradient	X	--	Detection
GWC-19	Downgradient	X	X	Detection
GWC-20	Downgradient	X	X	Detection
GWC-21	Downgradient	X	--	Detection
GWC-22	Downgradient	X	--	Detection
GWC-23	Downgradient	X	--	Detection

**Table 3**  
**Summary of Groundwater Elevations**  
**Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia**

Well ID	Top of Casing Elevation <sup>(1)</sup> (ft)	March 25, 2020	
		Depth to Water (ft BTOC)	Groundwater Elevations <sup>(1)</sup> (ft)
GWA-1	701.96	9.96	692.00
GWA-2	681.59	4.62	676.97
GWA-3	659.24	3.92	655.32
GWA-4	656.93	7.95	648.98
GWA-11	682.36	15.26	667.10
GWC-5	649.42	4.36	645.06
GWC-6	656.35	14.31	642.04
GWC-7	657.20	12.42	644.78
GWC-8	656.64	8.67	647.97
GWC-9	659.46	11.56	647.90
GWC-10	667.58	11.22	656.36
GWC-18	641.31	12.14	629.17
GWC-19	642.89	16.85	626.04
GWC-20	625.76	2.38	623.38
GWC-21	618.33	3.76	614.57
GWC-22	625.00	0.30	624.70
GWC-23	654.84	6.27	648.57

Notes:

ft BTOC = feet below top of casing

(1) Survey data obtained June 26, 2020, Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

**Table 4**  
 Groundwater Gradient and Flow Velocity Calculations  
 Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia

Landfill Parcels	Hydraulic Gradient - March 25, 2020 Data				Groundwater Flow Velocity		
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	Δl (ft)	Δh/Δl (ft/ft)	K <sub>h</sub> (ft/d)	n	V (ft/d) <sup>(1)</sup>
A & B (GWA-1 to GWC-7)	692.00	644.78	2,220	0.021	0.248	0.20	0.026
E (GWC-9 to GWC-20)	647.90	623.38	1,460	0.017			0.021

Notes:

ft = feet

ft/d = feet per day

ft/ft = feet per foot

h<sub>1</sub> and h<sub>2</sub> = groundwater elevation at designated measuring points

Δh/Δl = hydraulic gradient

K<sub>h</sub> = horizontal hydraulic conductivity

Δl = distance between measuring points 1 and 2

n = effective porosity

V = groundwater flow velocity

(1) Groundwater flow velocity equation:  $V = [K_h * (\Delta h / \Delta l)] / n$



**Table 5**  
**Summary of Groundwater Analytical Data**  
**Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia**

Well ID:	GWA-1	GWA-2	GWA-3	GWA-4	GWA-11	GWC-5	GWC-6	GWC-6	GWC-7	GWC-7	GWC-8	GWC-8	
Sample Date:	3/26/2020	3/26/2020	3/26/2020	3/26/2020	3/26/2020	3/31/2020	3/31/2020	6/18/2020	3/30/2020	6/19/2020	3/27/2020	6/19/2020	
Parameter <sup>(1,2)</sup>													
<b>D&amp;O Plan</b>	Antimony	0.00028 J	0.00049 J	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	--	<0.00027	--	<0.00027	--
	Arsenic	<0.00035	<0.00035	0.00048 J	0.00044 J	<0.00035	<0.00035	<0.00035	--	0.0052	--	0.0020 J	--
	Barium	0.032	0.16	0.14	0.049	0.031	0.064	0.18	--	0.21	--	0.14	--
	Beryllium	<0.000074	<0.000074	<0.000074	<0.000074	<0.000074	<0.000074	<0.000074	--	<0.000074	--	<0.000074	--
	Cadmium	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	--	<0.00011	--	<0.00011	--
	Chromium	<0.00039	0.00043 J	0.00062 J	0.0013 J	<0.00039	<0.00039	0.00085 J	--	0.00041 J	--	<0.00039	--
	Cobalt	0.00049 J	<0.00030	<0.00030	0.00082 J	0.00063 J	<0.00030	<0.00030	--	0.012	--	0.0016 J	--
	Copper	<0.00019	<0.00019	0.00022 J	<0.00019	<0.00019	0.00019 J	<0.00019	--	<0.00019	--	<0.00019	--
	Lead	<0.000046	<0.000046	0.000047 J	<0.000046	<0.000046	<0.000046	<0.000046	--	0.000048 J	--	<0.000046	--
	Nickel	0.00065 J	<0.00031	0.0011 J	0.00096 J	0.0020 J	0.0013 J	<0.00031	--	0.037	--	0.00053 J	--
	Selenium	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	--	<0.0013	--	<0.0013	--
	Silver	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	--	<0.00028	--	<0.00028	--
	Thallium	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	<0.000052	--	<0.000052	--	<0.000052	--
Vanadium	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	--	<0.00071	--	<0.00071	--	
Zinc	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	--	0.051	--	<0.018	--	
<b>APPENDIX III</b>	Boron	0.022 J	0.092 J	0.14	0.086 J	0.041 J	0.057 J	0.091 J	0.045 J	0.049 J	--	0.056 J	0.086 J
	Calcium	14.0	43.2	78.7	87.4	22.4	84.2	70.6	--	47.8	--	87.3	--
	Chloride	1.1	2.0	2.6	5.4	1.4	2.0	1.5	--	9.2	1.4	2.5	--
	Fluoride	0.082 J	0.12 J	0.090 J	0.089 J	0.057 J	<0.050	0.053 J	--	0.16 J	--	0.12 J	--
	pH <sup>(3)</sup>	7.02	7.07	6.87	6.74	6.83	6.82	7.17	6.96	6.48	6.45	7.01	6.81
	Sulfate	5.0	15.6	95.8	128	10.8	92.6	106	--	64.6	--	31.5	--
	TDS	73.0	222	450	466	76.0	408	349	--	216	--	329	--

Notes:

-- = Parameter was not analyzed

J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)

< = Indicates the parameter was not detected above the analytical MDL.

TDS = total dissolved solids

(1) Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units).

(2) Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in Appendix C.

(3) The pH value presented was recorded at the time of sample collection in the field.

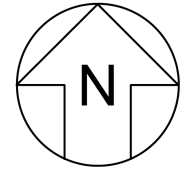
**Table 5**  
**Summary of Groundwater Analytical Data**  
**Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia**

Well ID:	GWC-9	GWC-10	GWC-10	GWC-18	GWC-19	GWC-19	GWC-20	GWC-20	GWC-21	GWC-22	GWC-23	
Sample Date:	3/27/2020	3/27/2020	6/19/2020	3/30/2020	3/31/2020	6/19/2020	3/31/2020	6/19/2020	3/31/2020	3/31/2020	3/26/2020	
Parameter <sup>(1,2)</sup>												
<b>D&amp;O Plan</b>	Antimony	<0.00027	<0.00027	--	<0.00027	<0.00027	--	<0.00027	--	<0.00027	<0.00027	<0.00027
	Arsenic	<0.00035	<0.00035	--	0.00073 J	<0.00035	--	<0.00035	--	0.00035 J	<0.00035	<0.00035
	Barium	0.060	0.037	--	0.077	0.17	--	0.15	0.14	0.044	0.10	0.071
	Beryllium	<0.000074	<0.000074	--	<0.000074	<0.000074	--	<0.000074	--	<0.000074	<0.000074	<0.000074
	Cadmium	<0.00011	<0.00011	--	<0.00011	<0.00011	--	<0.00011	--	<0.00011	<0.00011	<0.00011
	Chromium	<0.00039	<0.00039	--	0.00071 J	0.00042 J	--	<0.00039	--	0.00093 J	0.0015 J	<0.00039
	Cobalt	0.00063 J	0.00082 J	--	<0.00030	<0.00030	--	<0.00030	--	0.0019 J	<0.00030	0.00035 J
	Copper	<0.00019	0.00022 J	--	<0.00019	<0.00019	--	<0.00019	--	0.00082 J	0.00020 J	0.00067 J
	Lead	<0.000046	0.000054 J	--	<0.000046	0.000061 J	--	<0.000046	--	<0.000046	0.00013 J	0.00016 J
	Nickel	0.0022 J	0.0023 J	--	0.00048 J	<0.00031	--	<0.00031	--	0.0039 J	<0.00031	0.0010 J
	Selenium	<0.0013	<0.0013	--	<0.0013	<0.0013	--	<0.0013	--	<0.0013	<0.0013	<0.0013
	Silver	<0.00028	<0.00028	--	<0.00028	<0.00028	--	<0.00028	--	<0.00028	<0.00028	<0.00028
	Thallium	<0.000052	<0.000052	--	<0.000052	<0.000052	--	<0.000052	--	<0.000052	<0.000052	<0.000052
Vanadium	<0.00071	<0.00071	--	<0.00071	<0.00071	--	<0.00071	--	<0.00071	<0.00071	<0.00071	
Zinc	<0.018	<0.018	--	<0.018	<0.018	--	<0.018	--	<0.018	<0.018	<0.018	
<b>APPENDIX III</b>	Boron	0.018 J	0.040 J	--	0.13	0.18	--	0.024 J	--	0.022 J	0.067 J	0.042 J
	Calcium	34.3	22.9	--	45.7	52.3	41.3	63.6	61.4	25.6	51.5	44.7
	Chloride	0.74 J	1.2	--	1.0	1.3	--	1.1	--	1.5	1.0	0.63 J
	Fluoride	0.078 J	<0.050	--	0.10 J	0.099 J	--	0.054 J	--	<0.050	0.055 J	0.064 J
	pH <sup>(3)</sup>	7.11	6.82	7.4	7.65	7.62	7.61	7.57	7.31	6.33	7.80	6.88
	Sulfate	54	10.8	--	9.7	17.8	--	53.6	--	29.9	10.9	14.5
	TDS	192	118	--	217	233	--	267	--	111	195	193

# FIGURES



N:\GA Power\Plant\_Hammond GW Services\GIS\mxd\Huffaker\2020\CCR Report\01\_Semiannual\Figure 1\_SiteMap.mxd 8/11/2020 8:20:42 PM



Note:  
1. Aerial photograph source: Google Earth Pro, August 2019.



SCALE IN FEET

**SITE LOCATION MAP**

GEORGIA POWER COMPANY  
PLANT HAMMOND HUFFAKER ROAD LANDFILL  
FLOYD COUNTY, GEORGIA

Prepared For:  Georgia Power

Prepared By: 

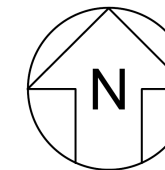
KENNESAW, GA



AUGUST 2020

**FIGURE  
1**



N:\GA Power\Plant\_Hammond\_GW\_Services\GIS\mxd\Huffaker\2020\CCR\_Report\01\_Semiannual\Figure 2\_WellMap.mxd 8/11/2020 8:26:02 PM



- LEGEND**
-  Compliance Monitoring Well
  -  Landfill Underdrain Sample Point



Note:  
1. Aerial photograph source: Google Earth Pro, August 2019.



**MONITORING WELL NETWORK MAP**

GEORGIA POWER COMPANY  
PLANT HAMMOND HUFFAKER ROAD LANDFILL  
FLOYD COUNTY, GEORGIA

Prepared For:  Georgia Power

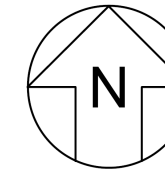
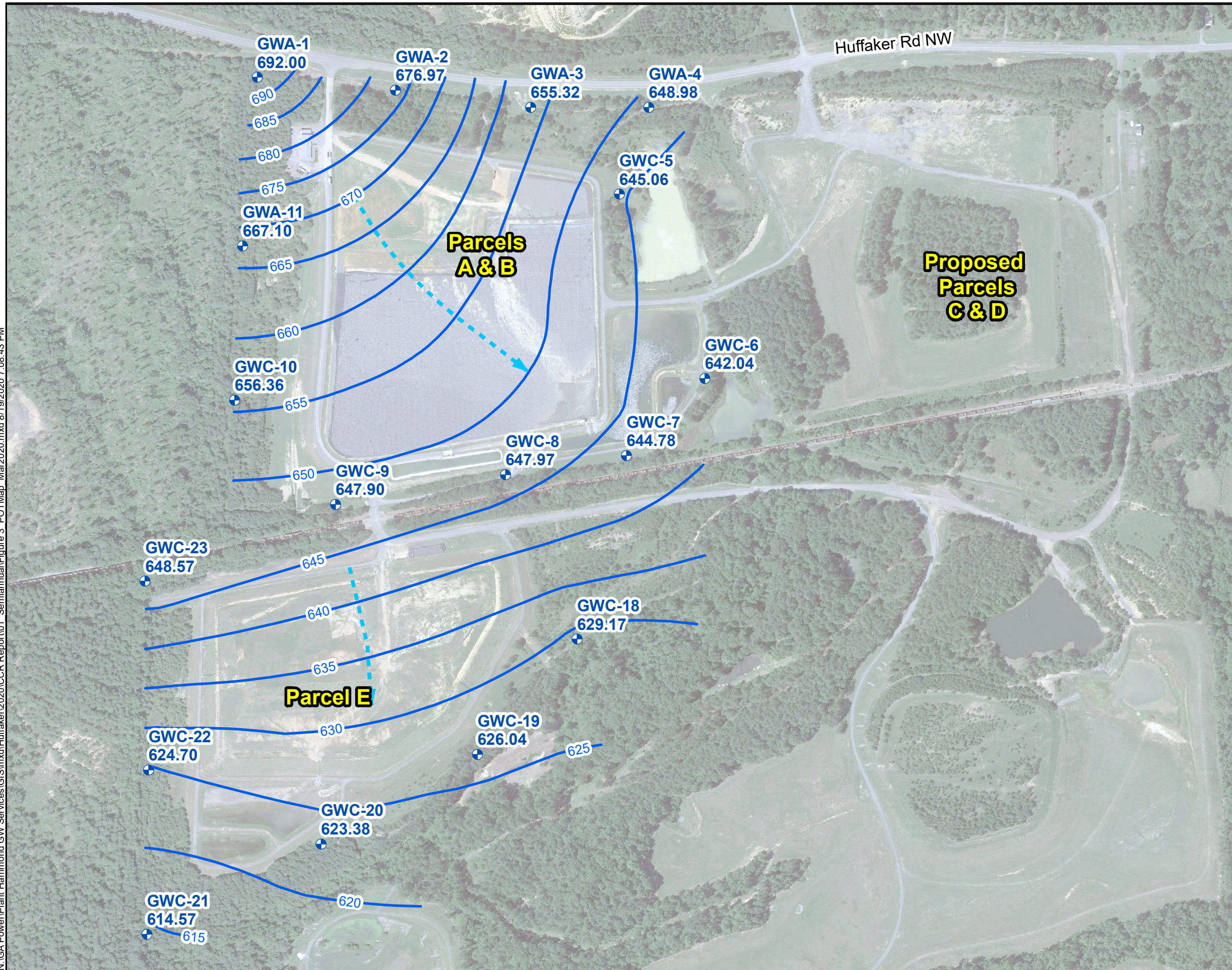
Prepared By:  Geosyntec  
consultants

KENNESAW, GA      AUGUST 2020

**FIGURE**  
**2**



N:\GA Power\Plant Hammond GW Services\GIS\mxd\Huffaker\2020\CCR Report\01\_Semiannual\Figure 3\_POTMap\_Mar2020.mxd 8/19/2020 7:08:43 PM

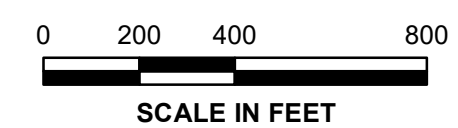


**LEGEND**

- Compliance Monitoring Well
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction



- Notes:
1. Water level elevation recorded on March 25, 2020. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
  2. Aerial photograph source: Google Earth Pro, August 2019.



**POTENTIOMETRIC SURFACE CONTOUR MAP - MARCH 2020**

GEORGIA POWER COMPANY  
 PLANT HAMMOND HUFFAKER ROAD LANDFILL  
 FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA    AUGUST 2020

**FIGURE 3**



# APPENDIX A

## Certified Survey Data

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Pad Northing	Pad Easting	Pad Elevation
GWA-1	1565643.8090	1952067.9350	701.96	1565643.7700	1952068.7470	698.65
GWA-2	1565590.0580	1952640.8860	681.59	1565590.9150	1952641.0270	679.04
GWA-3	1565520.2380	1953199.9260	659.24	1565519.5200	1953199.9110	656.35
GWA-4	1565519.8700	1953687.1040	656.93	1565518.9690	1953687.3230	653.98
GWC-5	1565159.1510	1953566.6650	649.42	1565159.0560	1953565.8480	646.44
GWC-6	1564397.5570	1953919.8550	656.35	1564397.6960	1953919.3420	653.86
GWC-7	1564079.1400	1953595.8490	657.20	1564079.8040	1953595.4950	654.28
GWC-8	1564000.6230	1953095.7210	656.64	1564001.2720	1953095.4650	653.96
GWC-9	1563876.8140	1952392.9690	659.46	1563876.8680	1952393.6820	657.15
GWC-10	1564308.3930	1951975.6590	667.58	1564308.3780	1951976.2070	664.08
GWA-11	1564946.5540	1952008.0290	682.36	1564946.6470	1952008.7080	679.57
GWC-18	1563320.4410	1953391.4910	641.31	1563320.0740	1953390.9190	638.45
GWC-19	1562843.1190	1952979.7200	642.89	1562843.4950	1952979.3960	640.37
GWC-20	1562472.7750	1952332.3050	625.76	1562472.9190	1952332.7680	623.09
GWC-21	1562099.5550	1951612.9270	618.33	1562099.6950	1951613.6880	614.26
GWC-22	1562778.8880	1951618.6740	625.00	1562778.9400	1951619.3210	621.82
GWC-23	1563558.6580	1951604.9730	654.84	1563558.7020	1951605.5870	652.12

Landfill Underdrain Discharge Pipe	Pipe Northing	Pipe Easting	Pipe Invert Elevation	Description
SWC-1	1564710.4550	1952300.5030	655.46	6" Plastic Pipe

Benchmark	Northing	Easting	Elevation
BM H-5	1563937.4180	1952560.0250	657.52

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING.  
DATE OF FIELD SURVEY & INSPECTION: 06/15/2020-06/17/2020  
FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NA'D'83, 0.01 VERTICAL-NAVD'88  
EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R10 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION.  
THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM H-4 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL



*Jimmy R. Toole*

6/26/2020



# APPENDIX B

## Well Inspection Forms

**Groundwater Monitoring Well Integrity Form**

Site Name Plant Hammond Huffaker  
 Permit Number \_\_\_\_\_  
 Well ID GWA-1  
 Date, field conditions 3/26/2020 73°F SUNNY

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <i>WL only</i>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond Nuffaker  
 Permit Number \_\_\_\_\_  
 Well ID GWA-2  
 Date, field conditions 3/20/2020 60°F, sunny

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

wl only

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

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**Groundwater Monitoring Well Integrity Form**

Site Name Plant Hammond (Huffaker)  
 Permit Number \_\_\_\_\_  
 Well ID GWA-3  
 Date, field conditions 3-26-2020 Vzt

	yes	no	n/a	
<u>1 Location/Identification</u>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>2 Protective Casing</u>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>3 Surface pad</u>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>4 Internal casing</u>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>5 Sampling: Groundwater Wells Only:</u>				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:  
Need Weeds and box on cat

Signature and Seal of PE/PG responsible for inspection  
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*well only*



## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond Haffaker  
 Permit Number \_\_\_\_\_  
 Well ID GVA-4  
 Date, field conditions 3-26-2020 wet

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <i>WL only</i>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

None

Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond Hufferaker  
 Permit Number \_\_\_\_\_  
 Well ID GWA-11  
 Date, field conditions 3-26-2020 Wet

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <i>wl only</i>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

None needed.

Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond Huffaker  
 Permit Number \_\_\_\_\_  
 Well ID GWC-5  
 Date, field conditions 3/31/2020 60°F cloudy

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

w/ only

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond Huffaker  
 Permit Number                       
 Well ID GWC-6  
 Date, field conditions 3/31/2020 60°F cloudy

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

WL only

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond Huleaker  
 Permit Number \_\_\_\_\_  
 Well ID GWC-7  
 Date, field conditions 3/31/2020 ~~dry~~ 60°F cloudy

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> WL only
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

\_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection

\_\_\_\_\_

## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond Hufferaker  
 Permit Number             
 Well ID GWC-8  
 Date, field conditions 3/27/2020 70°F sunny

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?</b>				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Corrective actions as needed, by date:</b>				

✓, Wl only

Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond Huberaker  
 Permit Number \_\_\_\_\_  
 Well ID GWC-9  
 Date, field conditions 3/27/2020 60°F sunny

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*WL only*

7 Corrective actions as needed, by date:

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Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond / Huffaker  
 Permit Number \_\_\_\_\_  
 Well ID FWC-10  
 Date, field conditions 3-27-2020 wet conditions

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> WL only
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

None as of now.

Signature and Seal of PE/PG responsible for inspection

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## Groundwater Monitoring Well Integrity Form

Site Name  
Permit Number  
Well ID  
Date, field conditions

Plant Hammond / Huffaker  
~~FCV-18 (en)~~ GWC-18  
3-30-2020 Damp

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Wt only*

7 Corrective actions as needed, by date:

Need weeds cut around well pad.

Signature and Seal of PE/PG responsible for inspection

## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond / Huffaker  
 Permit Number \_\_\_\_\_  
 Well ID GEV-1900 GWC-19  
 Date, field conditions 3-31-2020 Rain / Wet

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> WL only
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date: <u>None as of now.</u>			

Signature and Seal of PE/PG responsible for inspection



## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond / Haffaker  
 Permit Number \_\_\_\_\_  
 Well ID GWL-20  
 Date, field conditions 3-31-2020 Rain / Vzt

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:  
Well is in flood area. Well is not usually flooded. High rainfall during sampling event caused flooding of area. No actions needed (JM)

Signature and Seal of PE/PG responsible for inspection

\_\_\_\_\_

## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond / Huffaker  
 Permit Number \_\_\_\_\_  
 Well ID GW GVC-21  
 Date, field conditions 3-31-2020 Rain/Wet

	yes	no	n/a
<b>1 Location/Identification</b>			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <i>well only</i>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?</b>			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

None as of now

Signature and Seal of PE/PG responsible for inspection

---



## Groundwater Monitoring Well Integrity Form

Site Name Plant Hammond / Haffaker  
 Permit Number \_\_\_\_\_  
 Well ID GWC-22 (R) GWC-22  
 Date, field conditions 3-31-2020 Rain / wet

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?		✓	✓
<i>vegetation and mud.</i>				
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?			✓
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
<i>WL only</i>				
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

WL Pad is covered in mud from flood.

Signature and Seal of PE/PG responsible for inspection

**Groundwater Monitoring Well Integrity Form**

Site Name Plant Hammond Huffaker  
 Permit Number \_\_\_\_\_  
 Well ID GWC-23  
 Date, field conditions 3/26/2020 76°F Sunny

		yes	no	n/a
<b>1 Location/Identification</b>				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 Protective Casing</b>				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3 Surface pad</b>				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4 Internal casing</b>				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> w/ only
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5 Sampling: Groundwater Wells Only:</b>				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection

\_\_\_\_\_

## APPENDIX C

### Prepared Alternate Source Demonstration



*Prepared for*

**Georgia Power Company**  
241 Ralph McGill Blvd NE  
Atlanta, Georgia 30308

**ALTERNATE SOURCE  
DEMONSTRATION – ARSENIC  
PLANT HAMMOND HUFFAKER ROAD LANDFILL**

*Prepared by*

**Geosyntec**   
consultants

**engineers | scientists | innovators**

1255 Roberts Boulevard, Suite 200  
Kennesaw, Georgia 30144

Project Number GW6581B

April 2020



## ALTERNATE SOURCE DEMONSTRATION – ARSENIC

Plant Hammond  
Huffaker Road Landfill  
Permit No. 057-022D (LI)

April 29, 2020

A handwritten signature in black ink, appearing to read "Herwig Goldmund".

---

Herwig Goldmund, Ph.D.  
*Senior Scientist*

A handwritten signature in black ink, appearing to read "Whitney B. Law".

---

Whitney Law, P.E.  
*Project Manager*

**Certification Statement**

**Alternate Source Demonstration – Arsenic  
Plant Hammond  
Huffaker Road Landfill  
Permit No. 057-022D (LI)  
April 29, 2020**

I certify that the above document, including interpretations and recommendations, were completed in accordance with the Georgia Environmental Protection Division’s Solid Waste Rules (Chapter 391-3-4.14) by or under the direct supervision of a Georgia-registered professional geologist or a Georgia-registered professional engineer who is a qualified groundwater scientist.

*Whitney B. Law*

Seal and Signature



4/29/2020

Date

## TABLE OF CONTENTS

1.	INTRODUCTION .....	1
1.1	Purpose .....	1
1.2	Summary of ASD .....	1
1.3	Site Setting and Operational History .....	2
1.4	Groundwater Monitoring .....	2
1.5	Basis of the Statistically Significantly Increase .....	3
2.	ALTERNATE SOURCE DEMONSTRATION.....	4
2.1	Lack of Indicator Parameter SSIs .....	4
2.2	Landfill Liner System .....	4
2.3	Natural Variation of Groundwater Quality.....	5
3.	CONCLUSIONS .....	7
4.	REFERENCES .....	9

## LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Well Location Map
Figure 3	Time Series Chart – As, B, Cl, TDS in GWA-3, GWA-4, and GWC-7
Figure 4	Correlations Between Groundwater Elevations, ORP, and As at GWC-7

## LIST OF ACRONYMS

ASD	Alternate Source Demonstration
As	arsenic
ASTM	American Society for Testing and Materials
B	boron
CCR	Coal Combustion Residual
CFR	Code of Federal Regulations
Cl	chloride
cm/sec	centimeter per second
D&O	Design & Operation
ERM	Environmental Resources Management
GA EPD	Environmental Protection Division
GPC	Georgia Power Company
HDPE	high-density polyethylene
mg/L	milligrams per liter
ORP	oxidation reduction potential
PL	prediction limit
SSI	statistically significant increase
SCS	Southern Company Services, Inc.
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency



## 1. INTRODUCTION

### 1.1 Purpose

This document presents an alternate source demonstration (ASD) for the statistically significant increase (SSI) of arsenic detected in compliance well GWC-7 located at Georgia Power Company's (GPC's) Plant Hammond Huffaker Road Landfill (the landfill). The arsenic SSI was identified based on statistical evaluation of the groundwater quality data set obtained from the September 2019 semiannual detection monitoring event. The SSI was subsequently confirmed with a verification sampling event conducted in November 2019.

The landfill is currently regulated by the Georgia Environmental Protection Division (GA EPD) in accordance with Georgia Solid Waste Management Rules for Groundwater Monitoring and Corrective Action of a municipal solid waste landfill, Rule 391-3-4.14. The landfill is also subject to the United States Environmental Protection Agency (USEPA) coal combustion residual rule (CCR Rule) [40 Code of Federal Regulations (CFR) 257 Subpart D] and the GA EPD Rules for Solid Waste Management 391-3-4-.10. This ASD has been prepared pursuant to Rule 391-3-4-.14(23)(c) of the Georgia Administrative Code, which states that "the owner or operator may demonstrate that a source other than a [landfill] unit caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality." This language is consistent with the requirements of the Federal CCR Rule stipulated in 40 CFR 257.94(e)(2), which has been incorporated by reference into Rule 391-3-4-.10(6) of the Georgia Administrative Code.

### 1.2 Summary of ASD

Based on review of available site data, the arsenic SSI reported for well GWC-7 is not associated with a release from the landfill and is caused by natural variation in groundwater quality. This ASD discussed the following lines of evidence supporting this conclusion:

- There are no reported SSIs of the primary CCR indicator parameters (Appendix III) in well GWC-7. The absence of Appendix III SSIs indicates that a release from the landfill has not occurred. Groundwater samples collected from background monitoring wells GWA-3 and GWA-4, located upgradient of the lined landfill, exhibited higher concentrations of certain Appendix III parameters, including boron, chloride, and total dissolved solids (TDS) relative to compliance

well GWC-7 located downgradient of the landfill. If a release had occurred from a CCR unit, these parameters would exhibit increases in concentration resulting in SSIs. These indicator parameters do not show an increasing trend in groundwater samples collected from well GWC-7 and are not indicative of a release from the unit.

- Monitoring well GWC-7 is downgradient of lined landfill units. Parcels A and B are constructed with a composite liner system, including a 60-mil high-density polyethylene (HDPE) geomembrane and a leachate collection system; in addition, the CCR waste is landfilled in a dewatered state and there is no excess hydraulic head potentially driving CCR constituents into the subsurface; the lack of CCR-related impacts is supported by a lack of elevated concentrations of CCR indicator parameters in monitoring well GWC-7.
- Fluctuating water levels in well GWC-7 appear to have created slightly anaerobic conditions during the fall of 2019, which correlates with a concurrent increase in arsenic concentrations. Arsenic is generally more mobile under anaerobic conditions, and naturally-occurring arsenic has been mobilized into groundwater.

### **1.3 Site Setting and Operational History**

The landfill is located in Floyd County, near Rome, Georgia, approximately one mile west of the Rome city limit and approximately five miles northeast of Plant Hammond (**Figure 1**). The landfill is located within the Valley and Ridge Physiographic Province of Georgia, which is underlain by shales, dolomites, and limestones of Cambrian and Ordovician age, and the landfill itself is located in the Floyd Shale member of the Judy Mountain syncline (SCS, 2002).

Huffaker Road Landfill was built between 2005 and 2007 over a closed surface clay mine, previously owned by Boral Bricks, Inc. The landfill is comprised of constructed Parcels A, B, and E. Monitoring well GWC-7 is downgradient of Parcels A and B. Parcels A and B are constructed with a bottom liner system composed of a leachate collection system and a 60-mil HDPE geomembrane overlaying a minimum 24-inch compacted clay with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  centimeters per second (cm/sec). Disposal operations commenced on May 5, 2008. Parcels A and B are currently active.

### **1.4 Groundwater Monitoring**

A groundwater monitoring plan was originally developed under the Georgia Solid Waste rules as part of the landfill's D&O Plan to comply with the requirements of Solid Waste

Permit No. 057-022D (LI). The groundwater monitoring system consists of 17 wells (five upgradient wells and 12 downgradient wells) installed between September 2001 and February 2007 (ERM, 2018). The site layout and the locations of each well are presented on **Figure 2**. Groundwater monitoring at the landfill began in 2007, prior to disposal activities, and continues to date. In addition to groundwater monitoring under the D&O Plan, groundwater monitoring is also conducted under the Federal and Georgia CCR Rules, and the CCR groundwater monitoring under these rules commenced in March 2016.

### **1.5 Basis of the Statistically Significantly Increase**

The following presents a summary of the statistical approach applied to assess the September 2019 groundwater data for potential SSIs of permit stipulated parameters reported in downgradient compliance wells relative to the available historical data set. Because the landfill is currently independently managed under both Georgia's Solid Waste Management Rule 391-3-4.14 and Georgia's CCR Rule 391-3-4.10, which references the Federal CCR Rule, two data sets are statistically evaluated per semiannual monitoring event. One data set contains Appendix III parameters, which is applicable to both of the aforementioned rules. The other data set contains the D&O-specified parameters, applicable to Rule 391-3-4.14. The statistical approach used to evaluate groundwater data for the landfill for Appendix III parameters under both the Federal and Georgia CCR rules is the intrawell prediction limit (PL) method combined with a 1-of-3 resample plan. The intrawell PL statistical approach was also used to evaluate groundwater data for the landfill for D&O parameters (including arsenic), but with a 1-of-2 resample plan instead. The statistical analyses and comparisons to PLs are discussed in further detail in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (2019 Annual Report) (Geosyntec, 2020).

Statistical analysis of the September 2019 data identified an initial statistical exceedance of arsenic in samples from well GWC-7. The initial concentration of 0.010 mg/L was verified through a subsequent resampling and analysis conducted in November 2019 (0.011 mg/L) and the SSI verified. These concentrations exceeded the PL of 0.0088 mg/L for arsenic in GWC-7.

## 2. ALTERNATE SOURCE DEMONSTRATION

Based on review of site information, the SSI for As at monitoring well GWC-7 is not related to a release from lined Parcels A and B at the landfill but is instead caused by natural variation in the groundwater quality. The following sections presents information supporting this conclusion.

### 2.1 Lack of Indicator Parameter SSIs

Appendix III parameters were selected by the USEPA to serve as a broad-based indication of CCR impact to groundwater. Absent any Appendix III SSIs, it is reasonable to conclude that the arsenic SSI is not caused by a release from the CCR Landfill. A landfill impact to groundwater will result in numerous indicator SSIs and increasing concentrations in groundwater – that has not occurred.

Groundwater quality conditions within upgradient wells GWA-3 and GWA-4 are characterized by higher concentrations and greater variability among Appendix III parameters relative to downgradient compliance well GWC-7. The degree of spatial and temporal variability detected for certain Appendix III constituents (namely boron, chloride, and TDS) in these two upgradient wells relative to well GWC-7 are presented on **Figure 3**; the data set includes sampling events conducted between March 2016 and October 2019. These constituents are CCR indicator parameters due to their conservative (i.e., non-reactive) nature and relative abundance in CCR pore water and/or leachate. These indicators will appear in downgradient monitoring wells before many of the more reactive constituents (including arsenic) would show elevated concentrations if a release from a CCR unit had occurred.

The low concentrations of Appendix III parameters and lack of SSIs in downgradient well GWC-7 demonstrates that there has not been a release from the landfill; therefore, the SSI of arsenic is not caused by the regulated landfill.

### 2.2 Landfill Liner System

The construction of Parcels A and B minimizes the potential for a release to groundwater. Parcels A and B are constructed with a liquid collection and removal system that prevents accumulation on the liner, and with a liner system designed to prevent liquids from migrating from the landfill. Parcels A and B are constructed with a 24-inch compacted clay liner with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec. The liner is underlain with a minimum five-foot thick compacted fill buffer between the bottom of the clay liner and the seasonal high groundwater table.

A fate and transport model was completed in support of preparing the SAR. Under the more protective, conservative model scenario (i.e., highest potential for contaminant transport based on the range of determined soil parameters and model inputs), the model predicted that it would take landfill leachate more than 1,000 years to migrate through the 24-inch clay liner under normal operating conditions (GPC, 2002). To further improve the liner system and reduce the potential for leachate migration, Parcels A and B were retrofitted with a leachate collection and removal system underlain by 60-mil HDPE geomembrane overlaying and recompacting the underlying compacted clay liner to a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec (GPC, 2016).

Currently, Parcels A and B receive CCR material (predominantly ash) from Plant Hammond. The dewatered CCR waste is stacked in lifts and compacted to 90 percent of Standard Proctor per ASTM standard D698 (GPC, 2016). A temporary daily cover is placed over the active portions of the cells to minimize infiltration of rainwater. The dry-handling of the CCR materials in conjunction with the temporary cover system minimizes the hydraulic head that could potentially drive CCR constituents into the subsurface. In addition, the leachate collection system and the low permeability clay component underlying the geomembrane liner further limits the potential for leachate migration.

### **2.3 Natural Variation of Groundwater Quality**

The slight increase in arsenic concentration that resulted in the SSI is likely attributed to natural variation caused by fluctuations in groundwater levels. Naturally-occurring arsenic documented at the site (i.e., as part of the mineral pyrite) can be mobilized through changes in geochemical conditions that can routinely occur as part of the natural hydrologic cycle. For example, during groundwater recharge, which occurs mostly during the winter and early spring in north Georgia, oxygenated precipitation percolates to the groundwater table and creates more aerobic conditions, while drier periods during the summer and fall result in a lower groundwater table with less aerobic conditions. Using the data between October 2017 and October 2019, there is a correlation between water levels and ORP in monitoring well GWC-7. As water levels rise (i.e., due to increased infiltration of precipitation), the ORP becomes more aerobic, and as the water levels drop, the ORP generally becomes less aerobic. Furthermore, as the ORP becomes mildly negative (i.e., slightly anaerobic) in this well, the arsenic concentrations increase, and vice versa. **Figure 4** depicts the correlations between these parameters.

The regional geology was summarized in the Site Acceptability Report (SAR) (SCS, 2002) based on the work of Cressler (1970). The Huffaker Road Landfill is located in the Floyd Shale member of the Judy Mountain Syncline. The geologic unit underlying the landfill is composed of clay and shale, transitioning to limestone at its base. Pyrite

was noted to be present at outcrops located at the landfill (SCS, 2002). Pyrite ( $\text{FeS}_2$ ) is a rock-forming mineral that contains arsenic as a substitute for sulfur and can be a natural source of arsenic in many settings (e.g., Smedley and Kinniburgh, 2002), including the site-specific geology and setting. This naturally-occurring arsenic appears to have been mobilized through slightly anaerobic conditions during the late fall of 2019, which followed a prolonged dry period in Georgia during the summer and fall of 2019.

### 3. CONCLUSIONS

Based on the information presented in this ASD, the arsenic SSI presented in the 2019 Annual Groundwater Monitoring and Corrective Action Report are not attributed to a release from the landfill. The SSI are likely the result of natural variation in groundwater quality. Therefore, the landfill will remain in detection monitoring

The As concentration in downgradient compliance well GWC-7 was reported outside its associated PL during the second 2019 semiannual groundwater detection monitoring event conducted in September 2019. A subsequent verification sampling event conducted in November 2019 confirmed this condition, which resulted in the identification of an SSI for arsenic in monitoring well GWC-7. However, the following lines of evidence demonstrate that the SSI is caused by natural variation in groundwater quality and not a release from the unit.

- Lack of Indicator Parameters:

Time trends of Appendix III parameters, including the “indicator” parameters boron, chloride, and TDS, show a stable trend and no statistical exceedances in compliance well GWC-7. Furthermore, the concentrations of these parameters are higher in upgradient wells GWA-3 and GWA-4 compared to downgradient well GWC-7. These conditions are not indicative of a leachate release from the unit.

- Modern Lined Landfill:

- Parcels A & B are constructed with a composite liner system, including a 60-mil HDPE geomembrane and a leachate collection system; the landfilled CCR waste is dry handled and there is no excess hydraulic head potentially driving CCR constituents into the subsurface. The lack of CCR-related impacts in monitoring well GWC-7 is supported by a lack of elevated concentrations of CCR indicator parameters, namely boron, chloride, and TDS.

- Natural Variation of Groundwater Conditions:

- Fluctuating water levels in well GWC-7 appear to have created slightly anaerobic conditions during the late fall of 2019, which followed a prolonged period of dry conditions during the summer and fall of 2019. These anaerobic conditions correlate with a concurrent increase in arsenic

concentrations. Arsenic is generally more mobile under anaerobic conditions, and the naturally-occurring arsenic that has been identified at the site appears to have been mobilized into groundwater.



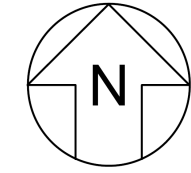
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# FIGURES



N:\GA Power\Plant Hammond GW Services\2018\GIS\mxd\Huffaker\CCR annual\2018\Figure1\_SiteMap\_v1.mxd 12/17/2018 10:39:34 AM



SCALE IN FEET

**SITE LOCATION MAP**

GEORGIA POWER COMPANY  
PLANT HAMMOND HUFFAKER ROAD LANDFILL  
ROME, FLOYD COUNTY, GEORGIA

Prepared For:  Georgia Power

Prepared By: 

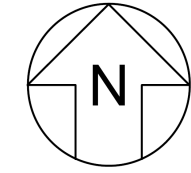
KENNESAW, GA

APRIL 2020



**FIGURE  
1**



N:\GA Power\Plant Hammond GW Services\2018\GIS\mxd\Huffaker\CCR annual\2018\Figure2 WellMap\_V1.mxd 12/12/2018 6:12:56 PM



**LEGEND**

-  Landfill Monitoring Well
-  Landfill Underdrain Sample Point



SCALE IN FEET

**WELL LOCATION MAP**

GEORGIA POWER COMPANY  
 PLANT HAMMOND HUFFAKER ROAD LANDFILL  
 ROME, FLOYD COUNTY, GEORGIA

Prepared For:  Georgia Power

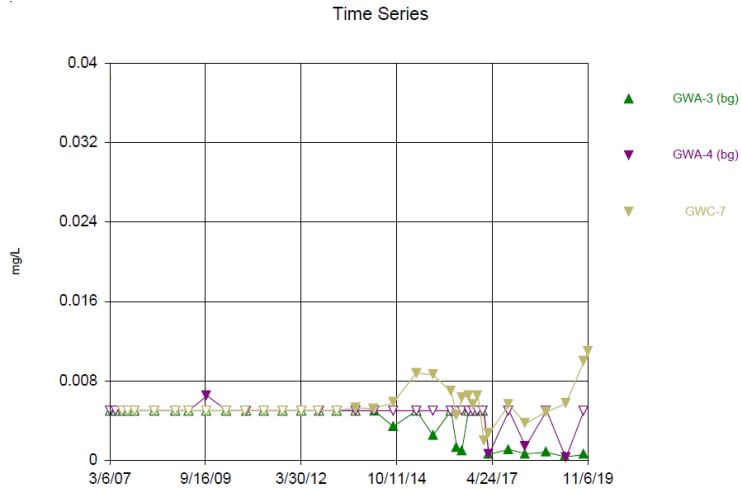
Prepared By:  Geosyntec  
 consultants

**FIGURE  
2**

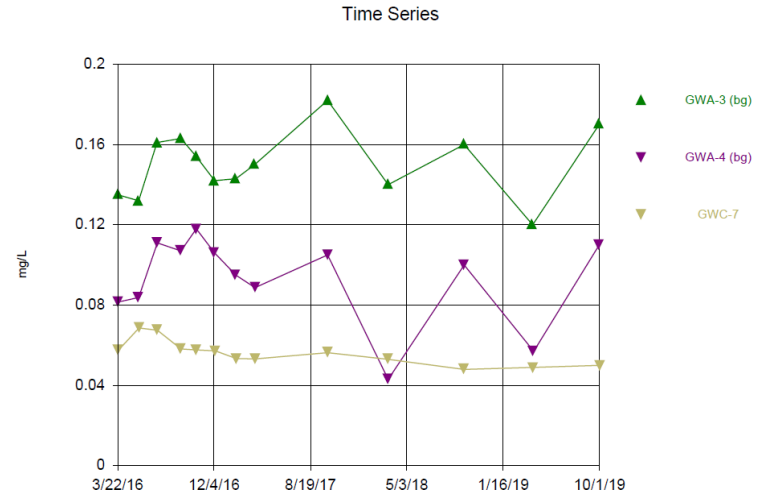
KENNESAW, GA

APRIL 2020

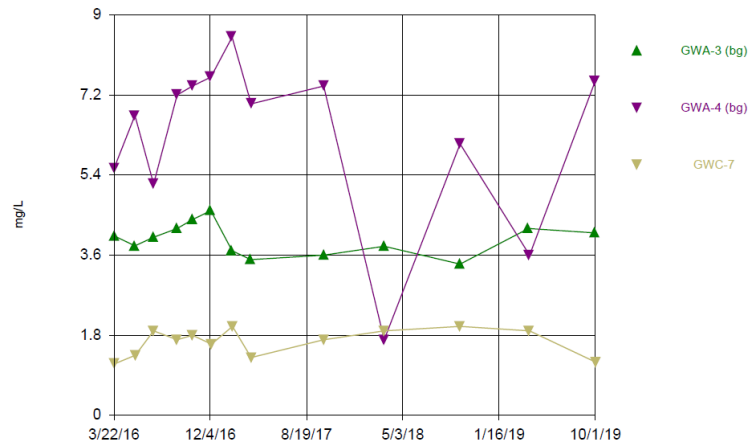




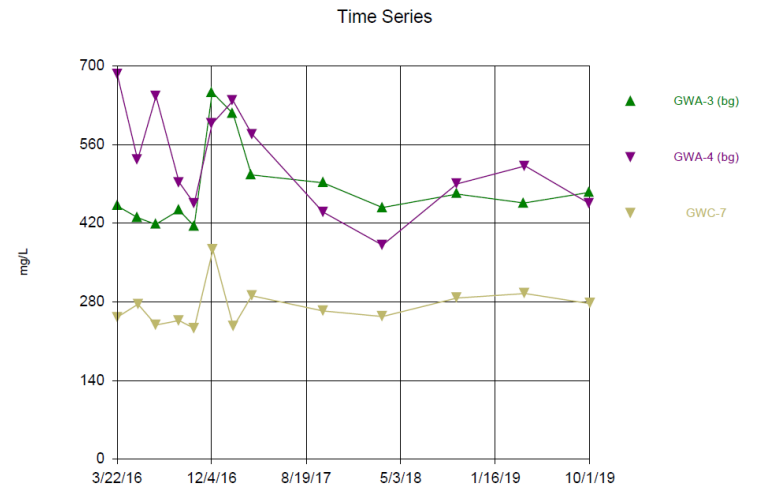
Constituent: Arsenic Analysis Run 4/27/2020 1:21 PM  
Hammond AP Client: Georgia Power Data: Huffaker Road Landfill



Constituent: Boron Analysis Run 4/27/2020 1:21 PM  
Hammond AP Client: Georgia Power Data: Huffaker Road Landfill



Constituent: Chloride Analysis Run 4/27/2020 1:22 PM  
Hammond AP Client: Georgia Power Data: Huffaker Road Landfill



Constituent: Total Dissolved Solids Analysis Run 4/27/2020 1:22 PM  
Hammond AP Client: Georgia Power Data: Huffaker Road Landfill

**Time Series Chart – As, B, Cl, TDS in GWA-3, GWA-4, and GWC-7**

Georgia Power Company  
Huffaker Road Landfill  
Rome, Floyd County, Georgia

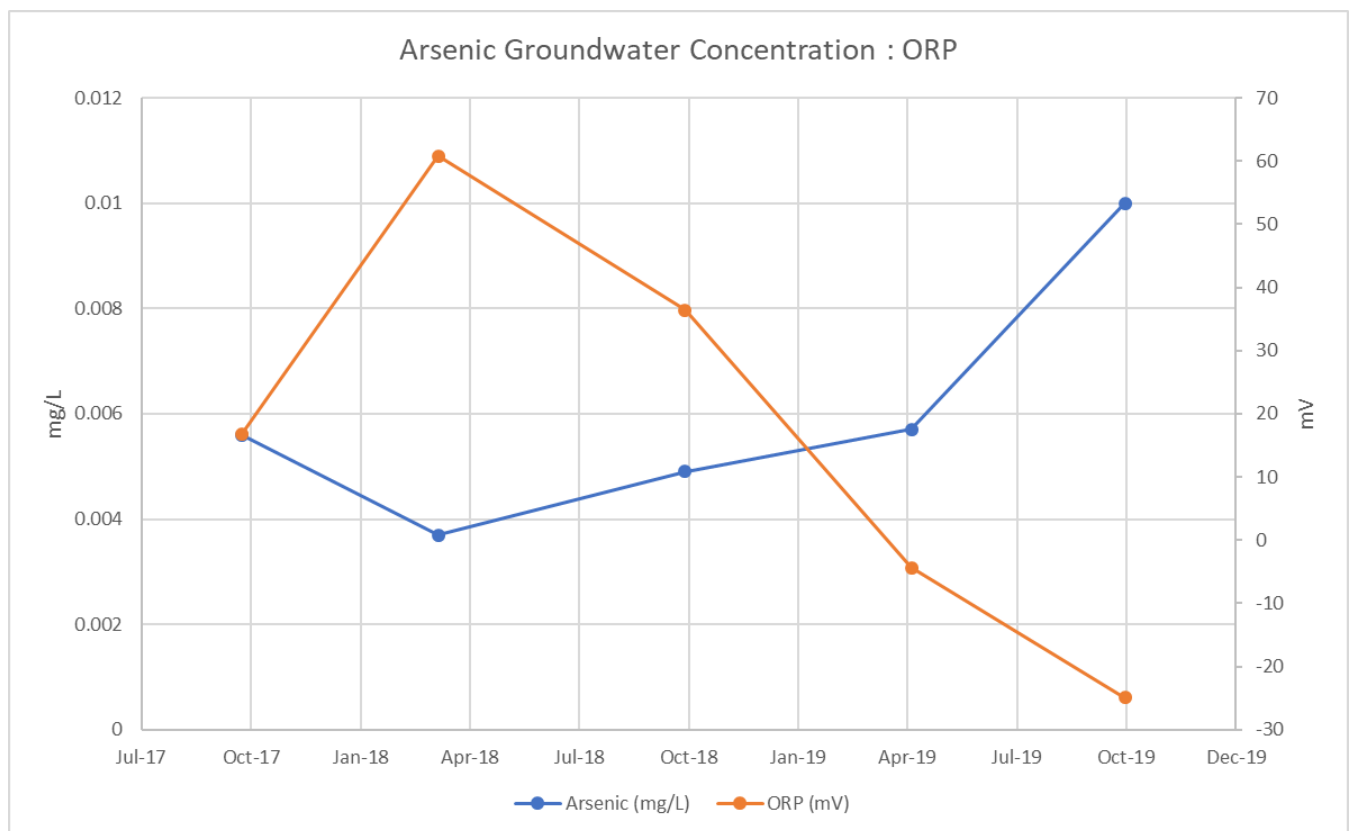
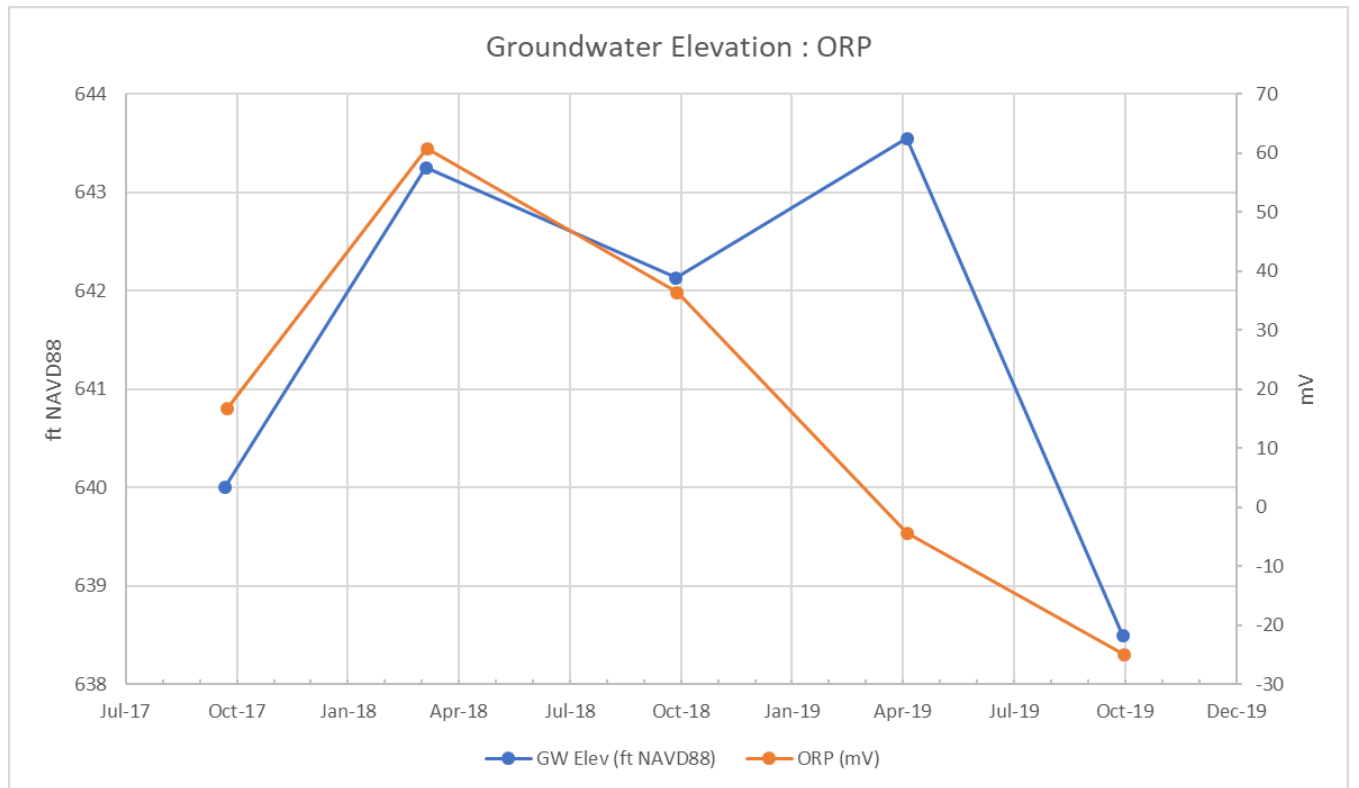


KENNESAW, GA

APRIL 2020

**Figure**

**3**



**Correlations Between Groundwater Elevations,  
ORP, and Arsenic at GWC-7**  
 Georgia Power Company  
 Huffaker Road Landfill  
 Rome, Floyd County, Georgia

**Geosyntec**  
 consultants

KENNESAW, GA

APRIL 2020

**Figure**

**4**

## APPENDIX D

### Laboratory Analytical and Field Sampling Reports

## APPENDIX D1

# Laboratory Analytical Data Packages and Data Validation Reports



# Laboratory Reports

May 05, 2020

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

RE: Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 27, 2020 and April 01, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Atlanta, GA

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

Sincerely,



Kevin Herring  
kevin.herring@pacelabs.com  
(704)875-9092  
HORIZON Database Administrator

Enclosures

cc: Kristen Jurinko  
Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

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### **Pace Analytical Services Atlanta**

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630525001	GWA-2	Water	03/26/20 10:41	03/27/20 13:00
2630525002	GWA-1	Water	03/26/20 13:07	03/27/20 13:00
2630525003	GWC-23	Water	03/26/20 16:34	03/27/20 13:00
2630525004	FB-05	Water	03/26/20 17:55	03/27/20 13:00
2630525005	GWA-4	Water	03/26/20 11:13	03/27/20 13:00
2630525006	GWA-3	Water	03/26/20 12:21	03/27/20 13:00
2630525007	GWA-11	Water	03/26/20 15:45	03/27/20 13:00
2630525008	GWC-9	Water	03/27/20 09:40	03/30/20 10:20
2630525009	GWC-8	Water	03/27/20 12:49	03/30/20 10:20
2630525010	GWC-10	Water	03/27/20 13:03	03/30/20 10:20
2630525011	FD-05	Water	03/27/20 00:00	03/30/20 10:20
2630525012	GWC-7	Water	03/30/20 15:17	03/31/20 11:35
2630525013	EB-01	Water	03/30/20 17:15	03/31/20 11:35
2630525014	GWC-18	Water	03/30/20 14:51	03/31/20 11:35
2630525015	GWC-6	Water	03/31/20 12:30	04/01/20 10:30
2630525016	GWC-5	Water	03/31/20 13:50	04/01/20 10:30
2630525017	GWC-19	Water	03/31/20 07:52	04/01/20 10:30
2630525018	GWC-20	Water	03/31/20 10:48	04/01/20 10:30
2630525019	GWC-21	Water	03/31/20 15:18	04/01/20 10:30
2630525020	GWC-22	Water	03/31/20 12:33	04/01/20 10:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630525001	GWA-2	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630525002	GWA-1	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2630525003	GWC-23	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2630525004	FB-05	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2630525005	GWA-4	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2630525006	GWA-3	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2630525007	GWA-11	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2630525008	GWC-9	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630525009	GWC-8	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630525010	GWC-10	EPA 6010D	DRB	2	PASI-GA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630525011	FD-05	EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	TC1	1	PASI-GA
2630525012	GWC-7	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630525013	EB-01	EPA 6020B	CSW	15	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630525014	GWC-18	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630525015	GWC-6	EPA 6020B	CSW	15	PASI-GA
		SM 2540C	JRS	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	JRS	1	PASI-GA
2630525016	GWC-5	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	JRS	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630525017	GWC-19	EPA 6020B	CSW	15	PASI-GA
		SM 2540C	JRS	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	JRS	1	PASI-GA
2630525018	GWC-20	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	JRS	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630525019	GWC-21	EPA 6020B	CSW	15	PASI-GA
		EPA 6010D	DRB	2	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630525020	GWC-22	SM 2540C	JRS	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	15	PASI-GA
		SM 2540C	JRS	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Atlanta, GA

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>2630525001</b>	<b>GWA-2</b>					
	Field pH	7.07	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	43.2	mg/L	1.0	04/03/20 21:51	
EPA 6020B	Antimony	0.00049J	mg/L	0.0030	04/03/20 15:45	
EPA 6020B	Barium	0.16	mg/L	0.010	04/03/20 15:45	
EPA 6020B	Boron	0.092J	mg/L	0.10	04/03/20 15:45	
EPA 6020B	Chromium	0.00043J	mg/L	0.010	04/03/20 15:45	
SM 2540C	Total Dissolved Solids	222	mg/L	10.0	04/02/20 15:00	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	04/03/20 07:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12J	mg/L	0.30	04/03/20 07:19	
EPA 300.0 Rev 2.1 1993	Sulfate	15.6	mg/L	1.0	04/03/20 07:19	
<b>2630525002</b>	<b>GWA-1</b>					
	Field pH	7.02	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	14.0	mg/L	1.0	04/03/20 21:54	
EPA 6020B	Antimony	0.00028J	mg/L	0.0030	04/03/20 15:50	
EPA 6020B	Barium	0.032	mg/L	0.010	04/03/20 15:50	
EPA 6020B	Boron	0.022J	mg/L	0.10	04/03/20 15:50	
EPA 6020B	Cobalt	0.00049J	mg/L	0.0050	04/03/20 15:50	
EPA 6020B	Nickel	0.00065J	mg/L	0.0050	04/03/20 15:50	
SM 2540C	Total Dissolved Solids	73.0	mg/L	10.0	04/02/20 15:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	04/04/20 18:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.30	04/04/20 18:16	
EPA 300.0 Rev 2.1 1993	Sulfate	5.0	mg/L	1.0	04/04/20 18:16	
<b>2630525003</b>	<b>GWC-23</b>					
	Field pH	6.88	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	44.7	mg/L	1.0	04/03/20 21:58	
EPA 6020B	Barium	0.071	mg/L	0.010	04/30/20 18:30	
EPA 6020B	Boron	0.042J	mg/L	0.10	04/30/20 18:30	
EPA 6020B	Cobalt	0.00035J	mg/L	0.0050	04/30/20 18:30	
EPA 6020B	Copper	0.00067J	mg/L	0.0050	04/30/20 18:30	
EPA 6020B	Lead	0.00016J	mg/L	0.0050	04/30/20 18:30	
EPA 6020B	Nickel	0.0010J	mg/L	0.0050	04/30/20 18:30	
SM 2540C	Total Dissolved Solids	193	mg/L	10.0	04/02/20 17:54	
EPA 300.0 Rev 2.1 1993	Chloride	0.63J	mg/L	1.0	04/04/20 19:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.30	04/04/20 19:14	
EPA 300.0 Rev 2.1 1993	Sulfate	14.5	mg/L	1.0	04/04/20 19:14	
<b>2630525004</b>	<b>FB-05</b>					
EPA 6020B	Chromium	0.00050J	mg/L	0.010	04/03/20 16:13	
<b>2630525005</b>	<b>GWA-4</b>					
	Field pH	6.74	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	87.4	mg/L	1.0	04/03/20 22:05	
EPA 6020B	Arsenic	0.00044J	mg/L	0.0050	04/03/20 16:19	
EPA 6020B	Barium	0.049	mg/L	0.010	04/03/20 16:19	
EPA 6020B	Boron	0.086J	mg/L	0.10	04/03/20 16:19	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	04/03/20 16:19	
EPA 6020B	Cobalt	0.00082J	mg/L	0.0050	04/03/20 16:19	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>2630525005</b>	<b>GWA-4</b>					
EPA 6020B	Nickel	0.00096J	mg/L	0.0050	04/03/20 16:19	
SM 2540C	Total Dissolved Solids	466	mg/L	10.0	04/02/20 17:54	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	04/04/20 19:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.089J	mg/L	0.30	04/04/20 19:43	
EPA 300.0 Rev 2.1 1993	Sulfate	128	mg/L	3.0	04/05/20 08:21	
<b>2630525006</b>	<b>GWA-3</b>					
	Field pH	6.87	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	78.7	mg/L	1.0	04/03/20 22:08	
EPA 6020B	Arsenic	0.00048J	mg/L	0.0050	04/03/20 16:25	
EPA 6020B	Barium	0.14	mg/L	0.010	04/03/20 16:25	
EPA 6020B	Boron	0.14	mg/L	0.10	04/03/20 16:25	
EPA 6020B	Chromium	0.00062J	mg/L	0.010	04/03/20 16:25	
EPA 6020B	Copper	0.00022J	mg/L	0.0050	04/03/20 16:25	
EPA 6020B	Lead	0.000047J	mg/L	0.0050	04/03/20 16:25	
EPA 6020B	Nickel	0.0011J	mg/L	0.0050	04/03/20 16:25	
SM 2540C	Total Dissolved Solids	450	mg/L	10.0	04/02/20 17:54	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	04/04/20 19:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.090J	mg/L	0.30	04/04/20 19:58	
EPA 300.0 Rev 2.1 1993	Sulfate	95.8	mg/L	2.0	04/05/20 08:38	
<b>2630525007</b>	<b>GWA-11</b>					
	Field pH	6.83	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	22.4	mg/L	1.0	04/03/20 22:12	
EPA 6020B	Barium	0.031	mg/L	0.010	04/03/20 16:30	
EPA 6020B	Boron	0.041J	mg/L	0.10	04/03/20 16:30	
EPA 6020B	Cobalt	0.00063J	mg/L	0.0050	04/03/20 16:30	
EPA 6020B	Nickel	0.0020J	mg/L	0.0050	04/03/20 16:30	
SM 2540C	Total Dissolved Solids	76.0	mg/L	10.0	04/02/20 17:54	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	04/04/20 20:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.30	04/04/20 20:12	
EPA 300.0 Rev 2.1 1993	Sulfate	10.8	mg/L	1.0	04/04/20 20:12	
<b>2630525008</b>	<b>GWC-9</b>					
	Field pH	7.11	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	34.3	mg/L	1.0	04/03/20 22:15	
EPA 6020B	Barium	0.060	mg/L	0.010	04/03/20 16:36	
EPA 6020B	Boron	0.018J	mg/L	0.10	04/03/20 16:36	
EPA 6020B	Cobalt	0.00063J	mg/L	0.0050	04/03/20 16:36	
EPA 6020B	Nickel	0.0022J	mg/L	0.0050	04/03/20 16:36	
SM 2540C	Total Dissolved Solids	192	mg/L	10.0	04/02/20 17:54	
EPA 300.0 Rev 2.1 1993	Chloride	0.74J	mg/L	1.0	04/03/20 06:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.30	04/03/20 06:48	
EPA 300.0 Rev 2.1 1993	Sulfate	54.0	mg/L	1.0	04/03/20 06:48	
<b>2630525009</b>	<b>GWC-8</b>					
	Field pH	7.01	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	87.3	mg/L	1.0	04/03/20 22:19	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	04/03/20 16:42	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>2630525009</b>	<b>GWC-8</b>					
EPA 6020B	Barium	0.14	mg/L	0.010	04/03/20 16:42	
EPA 6020B	Boron	0.056J	mg/L	0.10	04/03/20 16:42	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	04/03/20 16:42	
EPA 6020B	Nickel	0.00053J	mg/L	0.0050	04/03/20 16:42	
SM 2540C	Total Dissolved Solids	329	mg/L	10.0	04/02/20 17:55	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	04/03/20 07:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12J	mg/L	0.30	04/03/20 07:03	
EPA 300.0 Rev 2.1 1993	Sulfate	31.5	mg/L	1.0	04/03/20 07:03	
<b>2630525010</b>	<b>GWC-10</b>					
	Field pH	6.82	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	22.9	mg/L	1.0	04/03/20 22:22	
EPA 6020B	Barium	0.037	mg/L	0.010	04/03/20 16:48	
EPA 6020B	Boron	0.040J	mg/L	0.10	04/03/20 16:48	
EPA 6020B	Cobalt	0.00082J	mg/L	0.0050	04/03/20 16:48	
EPA 6020B	Copper	0.00022J	mg/L	0.0050	04/03/20 16:48	
EPA 6020B	Lead	0.000054J	mg/L	0.0050	04/03/20 16:48	
EPA 6020B	Nickel	0.0023J	mg/L	0.0050	04/03/20 16:48	
SM 2540C	Total Dissolved Solids	118	mg/L	10.0	04/02/20 17:55	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	04/02/20 17:16	
EPA 300.0 Rev 2.1 1993	Sulfate	10.8	mg/L	1.0	04/02/20 17:16	
<b>2630525011</b>	<b>FD-05</b>					
EPA 6010D	Calcium	22.9	mg/L	1.0	04/03/20 22:33	
EPA 6020B	Barium	0.032	mg/L	0.010	04/03/20 16:53	
EPA 6020B	Boron	0.039J	mg/L	0.10	04/03/20 16:53	
EPA 6020B	Chromium	0.00056J	mg/L	0.010	04/03/20 16:53	
EPA 6020B	Cobalt	0.00062J	mg/L	0.0050	04/03/20 16:53	
EPA 6020B	Nickel	0.0021J	mg/L	0.0050	04/03/20 16:53	
SM 2540C	Total Dissolved Solids	112	mg/L	10.0	04/02/20 17:55	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	04/02/20 18:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.30	04/02/20 18:00	
EPA 300.0 Rev 2.1 1993	Sulfate	11.0	mg/L	1.0	04/02/20 18:00	
<b>2630525012</b>	<b>GWC-7</b>					
	Field pH	6.48	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	47.8	mg/L	1.0	04/03/20 20:40	
EPA 6010D	Zinc	0.051	mg/L	0.020	04/03/20 20:40	
EPA 6020B	Arsenic	0.0052	mg/L	0.0050	04/02/20 16:27	B
EPA 6020B	Barium	0.21	mg/L	0.010	04/02/20 16:27	
EPA 6020B	Boron	0.049J	mg/L	0.10	04/02/20 16:27	
EPA 6020B	Chromium	0.00041J	mg/L	0.010	04/02/20 16:27	
EPA 6020B	Cobalt	0.012	mg/L	0.0050	04/02/20 16:27	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	04/02/20 16:27	
EPA 6020B	Nickel	0.037	mg/L	0.0050	04/02/20 16:27	
SM 2540C	Total Dissolved Solids	216	mg/L	10.0	04/06/20 18:47	
EPA 300.0 Rev 2.1 1993	Chloride	9.2	mg/L	1.0	04/04/20 22:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16J	mg/L	0.30	04/04/20 22:59	
EPA 300.0 Rev 2.1 1993	Sulfate	64.6	mg/L	1.0	04/04/20 22:59	

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### SUMMARY OF DETECTION

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>2630525013</b>	<b>EB-01</b>					
EPA 6020B	Arsenic	0.00036J	mg/L	0.0050	04/02/20 16:32	B
EPA 6020B	Boron	0.0092J	mg/L	0.10	04/02/20 16:32	
<b>2630525014</b>	<b>GWC-18</b>					
	Field pH	7.65	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	45.7	mg/L	1.0	04/03/20 20:47	
EPA 6020B	Arsenic	0.00073J	mg/L	0.0050	04/02/20 16:38	B
EPA 6020B	Barium	0.077	mg/L	0.010	04/02/20 16:38	
EPA 6020B	Boron	0.13	mg/L	0.10	04/02/20 16:38	
EPA 6020B	Chromium	0.00071J	mg/L	0.010	04/02/20 16:38	
EPA 6020B	Nickel	0.00048J	mg/L	0.0050	04/02/20 16:38	
SM 2540C	Total Dissolved Solids	217	mg/L	10.0	04/06/20 18:47	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	04/04/20 23:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10J	mg/L	0.30	04/04/20 23:29	
EPA 300.0 Rev 2.1 1993	Sulfate	9.7	mg/L	1.0	04/04/20 23:29	
<b>2630525015</b>	<b>GWC-6</b>					
	Field pH	7.17	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	70.6	mg/L	1.0	04/02/20 19:22	
EPA 6020B	Barium	0.18	mg/L	0.010	04/08/20 18:28	
EPA 6020B	Boron	0.091J	mg/L	0.10	04/08/20 18:28	
EPA 6020B	Chromium	0.00085J	mg/L	0.010	04/08/20 18:28	
SM 2540C	Total Dissolved Solids	349	mg/L	10.0	04/07/20 12:18	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	04/07/20 17:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.30	04/07/20 17:02	
EPA 300.0 Rev 2.1 1993	Sulfate	106	mg/L	2.0	04/08/20 07:03	
<b>2630525016</b>	<b>GWC-5</b>					
	Field pH	6.82	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	84.2	mg/L	1.0	04/02/20 19:25	
EPA 6020B	Barium	0.064	mg/L	0.010	04/08/20 18:34	
EPA 6020B	Boron	0.057J	mg/L	0.10	04/08/20 18:34	
EPA 6020B	Copper	0.00019J	mg/L	0.0050	04/08/20 18:34	
EPA 6020B	Nickel	0.0013J	mg/L	0.0050	04/08/20 18:34	
SM 2540C	Total Dissolved Solids	408	mg/L	10.0	04/07/20 12:19	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	04/07/20 17:16	
EPA 300.0 Rev 2.1 1993	Sulfate	92.6	mg/L	2.0	04/08/20 07:18	
<b>2630525017</b>	<b>GWC-19</b>					
	Field pH	7.62	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	52.3	mg/L	1.0	04/02/20 19:29	
EPA 6020B	Barium	0.17	mg/L	0.010	04/09/20 10:57	
EPA 6020B	Boron	0.18	mg/L	0.10	04/09/20 10:57	
EPA 6020B	Chromium	0.00042J	mg/L	0.010	04/09/20 10:57	
EPA 6020B	Lead	0.000061J	mg/L	0.0050	04/09/20 10:57	
SM 2540C	Total Dissolved Solids	233	mg/L	10.0	04/07/20 12:19	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	04/07/20 18:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.099J	mg/L	0.30	04/07/20 18:12	
EPA 300.0 Rev 2.1 1993	Sulfate	17.8	mg/L	1.0	04/07/20 18:12	

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### SUMMARY OF DETECTION

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>2630525018</b>	<b>GWC-20</b>					
	Field pH	7.57	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	63.6	mg/L	1.0	04/02/20 19:32	
EPA 6020B	Barium	0.15	mg/L	0.010	04/08/20 18:45	
EPA 6020B	Boron	0.024J	mg/L	0.10	04/08/20 18:45	
SM 2540C	Total Dissolved Solids	267	mg/L	10.0	04/07/20 12:19	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	04/07/20 18:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.054J	mg/L	0.30	04/07/20 18:26	
EPA 300.0 Rev 2.1 1993	Sulfate	53.6	mg/L	1.0	04/07/20 18:26	
<b>2630525019</b>	<b>GWC-21</b>					
	Field pH	6.33	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	25.6	mg/L	1.0	04/02/20 19:36	
EPA 6020B	Arsenic	0.00035J	mg/L	0.0050	04/08/20 18:51	B
EPA 6020B	Barium	0.044	mg/L	0.010	04/08/20 18:51	
EPA 6020B	Boron	0.022J	mg/L	0.10	04/08/20 18:51	
EPA 6020B	Chromium	0.00093J	mg/L	0.010	04/08/20 18:51	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	04/08/20 18:51	
EPA 6020B	Copper	0.00082J	mg/L	0.0050	04/08/20 18:51	
EPA 6020B	Nickel	0.0039J	mg/L	0.0050	04/08/20 18:51	
SM 2540C	Total Dissolved Solids	111	mg/L	10.0	04/07/20 12:19	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	04/07/20 18:40	
EPA 300.0 Rev 2.1 1993	Sulfate	29.9	mg/L	1.0	04/07/20 18:40	
<b>2630525020</b>	<b>GWC-22</b>					
	Field pH	7.80	Std. Units		04/07/20 14:39	
EPA 6010D	Calcium	51.5	mg/L	1.0	04/02/20 19:39	
EPA 6020B	Barium	0.10	mg/L	0.010	04/08/20 18:57	
EPA 6020B	Boron	0.067J	mg/L	0.10	04/08/20 18:57	
EPA 6020B	Chromium	0.0015J	mg/L	0.010	04/08/20 18:57	
EPA 6020B	Copper	0.00020J	mg/L	0.0050	04/08/20 18:57	
EPA 6020B	Lead	0.00013J	mg/L	0.0050	04/08/20 18:57	
SM 2540C	Total Dissolved Solids	195	mg/L	10.0	04/07/20 12:19	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	04/07/20 18:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.30	04/07/20 18:54	
EPA 300.0 Rev 2.1 1993	Sulfate	10.9	mg/L	1.0	04/07/20 18:54	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWA-2		Lab ID: 2630525001		Collected: 03/26/20 10:41		Received: 03/27/20 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.07	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	43.2	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 21:51	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 21:51	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.00049J	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 15:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 15:45	7440-38-2	
Barium	0.16	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 15:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 15:45	7440-41-7	
Boron	0.092J	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 15:45	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 15:45	7440-43-9	
Chromium	0.00043J	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 15:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 15:45	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 15:45	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 15:45	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 15:45	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 15:45	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 15:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 15:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 15:45	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	222	mg/L	10.0	10.0	1		04/02/20 15:00		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.0	mg/L	1.0	0.60	1		04/03/20 07:19	16887-00-6	
Fluoride	0.12J	mg/L	0.30	0.050	1		04/03/20 07:19	16984-48-8	
Sulfate	15.6	mg/L	1.0	0.50	1		04/03/20 07:19	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWA-1		Lab ID: 2630525002		Collected: 03/26/20 13:07		Received: 03/27/20 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.02	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	14.0	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 21:54	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 21:54	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.00028J	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 15:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 15:50	7440-38-2	
Barium	0.032	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 15:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 15:50	7440-41-7	
Boron	0.022J	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 15:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 15:50	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 15:50	7440-47-3	
Cobalt	0.00049J	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 15:50	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 15:50	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 15:50	7439-92-1	
Nickel	0.00065J	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 15:50	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 15:50	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 15:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 15:50	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 15:50	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	73.0	mg/L	10.0	10.0	1		04/02/20 15:00		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		04/04/20 18:16	16887-00-6	
Fluoride	0.082J	mg/L	0.30	0.050	1		04/04/20 18:16	16984-48-8	
Sulfate	5.0	mg/L	1.0	0.50	1		04/04/20 18:16	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>GWC-23</b>	Lab ID: <b>2630525003</b>	Collected: 03/26/20 16:34	Received: 03/27/20 13:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	<b>6.88</b>	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	<b>44.7</b>	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 21:58	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 21:58	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/29/20 17:07	04/30/20 18:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/29/20 17:07	04/30/20 18:30	7440-38-2	
Barium	<b>0.071</b>	mg/L	0.010	0.00049	1	04/29/20 17:07	04/30/20 18:30	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/29/20 17:07	04/30/20 18:30	7440-41-7	
Boron	<b>0.042J</b>	mg/L	0.10	0.0049	1	04/29/20 17:07	04/30/20 18:30	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/29/20 17:07	04/30/20 18:30	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/29/20 17:07	04/30/20 18:30	7440-47-3	
Cobalt	<b>0.00035J</b>	mg/L	0.0050	0.00030	1	04/29/20 17:07	04/30/20 18:30	7440-48-4	
Copper	<b>0.00067J</b>	mg/L	0.0050	0.00019	1	04/29/20 17:07	04/30/20 18:30	7440-50-8	
Lead	<b>0.00016J</b>	mg/L	0.0050	0.000046	1	04/29/20 17:07	04/30/20 18:30	7439-92-1	
Nickel	<b>0.0010J</b>	mg/L	0.0050	0.00031	1	04/29/20 17:07	04/30/20 18:30	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/29/20 17:07	04/30/20 18:30	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/29/20 17:07	04/30/20 18:30	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/29/20 17:07	04/30/20 18:30	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/29/20 17:07	04/30/20 18:30	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	<b>193</b>	mg/L	10.0	10.0	1		04/02/20 17:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>0.63J</b>	mg/L	1.0	0.60	1		04/04/20 19:14	16887-00-6	
Fluoride	<b>0.064J</b>	mg/L	0.30	0.050	1		04/04/20 19:14	16984-48-8	
Sulfate	<b>14.5</b>	mg/L	1.0	0.50	1		04/04/20 19:14	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>FB-05</b>		Lab ID: <b>2630525004</b>		Collected: 03/26/20 17:55		Received: 03/27/20 13:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D MET ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA								
Calcium	ND	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 22:01	7440-70-2		
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 22:01	7440-66-6		
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA								
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 16:13	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 16:13	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 16:13	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 16:13	7440-41-7		
Boron	ND	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 16:13	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 16:13	7440-43-9		
Chromium	<b>0.00050J</b>	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 16:13	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 16:13	7440-48-4		
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 16:13	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 16:13	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 16:13	7440-02-0		
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 16:13	7782-49-2		
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 16:13	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 16:13	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 16:13	7440-62-2		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/02/20 17:54			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/04/20 19:29	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		04/04/20 19:29	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/04/20 19:29	14808-79-8		

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWA-4		Lab ID: 2630525005		Collected: 03/26/20 11:13		Received: 03/27/20 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.74	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	87.4	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 22:05	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 22:05	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 16:19	7440-36-0	
Arsenic	0.00044J	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 16:19	7440-38-2	
Barium	0.049	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 16:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 16:19	7440-41-7	
Boron	0.086J	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 16:19	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 16:19	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 16:19	7440-47-3	
Cobalt	0.00082J	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 16:19	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 16:19	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 16:19	7439-92-1	
Nickel	0.00096J	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 16:19	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 16:19	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 16:19	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 16:19	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 16:19	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	466	mg/L	10.0	10.0	1		04/02/20 17:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.4	mg/L	1.0	0.60	1		04/04/20 19:43	16887-00-6	
Fluoride	0.089J	mg/L	0.30	0.050	1		04/04/20 19:43	16984-48-8	
Sulfate	128	mg/L	3.0	1.5	3		04/05/20 08:21	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWA-3		Lab ID: 2630525006		Collected: 03/26/20 12:21		Received: 03/27/20 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.87	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	78.7	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 22:08	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 22:08	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 16:25	7440-36-0	
Arsenic	0.00048J	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 16:25	7440-38-2	
Barium	0.14	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 16:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 16:25	7440-41-7	
Boron	0.14	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 16:25	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 16:25	7440-43-9	
Chromium	0.00062J	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 16:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 16:25	7440-48-4	
Copper	0.00022J	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 16:25	7440-50-8	
Lead	0.000047J	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 16:25	7439-92-1	
Nickel	0.0011J	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 16:25	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 16:25	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 16:25	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 16:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 16:25	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	450	mg/L	10.0	10.0	1		04/02/20 17:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.6	mg/L	1.0	0.60	1		04/04/20 19:58	16887-00-6	
Fluoride	0.090J	mg/L	0.30	0.050	1		04/04/20 19:58	16984-48-8	
Sulfate	95.8	mg/L	2.0	1.0	2		04/05/20 08:38	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWA-11		Lab ID: 2630525007		Collected: 03/26/20 15:45		Received: 03/27/20 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.83	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	22.4	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 22:12	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 22:12	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 16:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 16:30	7440-38-2	
Barium	0.031	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 16:30	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 16:30	7440-41-7	
Boron	0.041J	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 16:30	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 16:30	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 16:30	7440-47-3	
Cobalt	0.00063J	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 16:30	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 16:30	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 16:30	7439-92-1	
Nickel	0.0020J	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 16:30	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 16:30	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 16:30	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 16:30	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 16:30	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	76.0	mg/L	10.0	10.0	1		04/02/20 17:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.4	mg/L	1.0	0.60	1		04/04/20 20:12	16887-00-6	
Fluoride	0.057J	mg/L	0.30	0.050	1		04/04/20 20:12	16984-48-8	
Sulfate	10.8	mg/L	1.0	0.50	1		04/04/20 20:12	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWC-9		Lab ID: 2630525008		Collected: 03/27/20 09:40		Received: 03/30/20 10:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.11	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	34.3	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 22:15	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 22:15	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 16:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 16:36	7440-38-2	
Barium	0.060	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 16:36	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 16:36	7440-41-7	
Boron	0.018J	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 16:36	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 16:36	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 16:36	7440-47-3	
Cobalt	0.00063J	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 16:36	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 16:36	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 16:36	7439-92-1	
Nickel	0.0022J	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 16:36	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 16:36	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 16:36	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 16:36	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 16:36	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	192	mg/L	10.0	10.0	1		04/02/20 17:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.74J	mg/L	1.0	0.60	1		04/03/20 06:48	16887-00-6	
Fluoride	0.078J	mg/L	0.30	0.050	1		04/03/20 06:48	16984-48-8	
Sulfate	54.0	mg/L	1.0	0.50	1		04/03/20 06:48	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>GWC-8</b>		Lab ID: <b>2630525009</b>		Collected: 03/27/20 12:49		Received: 03/30/20 10:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	<b>7.01</b>	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	<b>87.3</b>	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 22:19	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 22:19	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 16:42	7440-36-0	
Arsenic	<b>0.0020J</b>	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 16:42	7440-38-2	
Barium	<b>0.14</b>	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 16:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 16:42	7440-41-7	
Boron	<b>0.056J</b>	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 16:42	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 16:42	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 16:42	7440-47-3	
Cobalt	<b>0.0016J</b>	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 16:42	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 16:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 16:42	7439-92-1	
Nickel	<b>0.00053J</b>	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 16:42	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 16:42	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 16:42	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 16:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 16:42	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	<b>329</b>	mg/L	10.0	10.0	1		04/02/20 17:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>2.5</b>	mg/L	1.0	0.60	1		04/03/20 07:03	16887-00-6	
Fluoride	<b>0.12J</b>	mg/L	0.30	0.050	1		04/03/20 07:03	16984-48-8	
Sulfate	<b>31.5</b>	mg/L	1.0	0.50	1		04/03/20 07:03	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>GWC-10</b>		Lab ID: <b>2630525010</b>		Collected: 03/27/20 13:03		Received: 03/30/20 10:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	<b>6.82</b>	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	<b>22.9</b>	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 22:22	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 22:22	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 16:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 16:48	7440-38-2	
Barium	<b>0.037</b>	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 16:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 16:48	7440-41-7	
Boron	<b>0.040J</b>	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 16:48	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 16:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 16:48	7440-47-3	
Cobalt	<b>0.00082J</b>	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 16:48	7440-48-4	
Copper	<b>0.00022J</b>	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 16:48	7440-50-8	
Lead	<b>0.000054J</b>	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 16:48	7439-92-1	
Nickel	<b>0.0023J</b>	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 16:48	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 16:48	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 16:48	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 16:48	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 16:48	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	<b>118</b>	mg/L	10.0	10.0	1		04/02/20 17:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.2</b>	mg/L	1.0	0.60	1		04/02/20 17:16	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/02/20 17:16	16984-48-8	
Sulfate	<b>10.8</b>	mg/L	1.0	0.50	1		04/02/20 17:16	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>FD-05</b>		Lab ID: <b>2630525011</b>		Collected: 03/27/20 00:00		Received: 03/30/20 10:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA							
Calcium	<b>22.9</b>	mg/L	1.0	0.14	1	04/01/20 19:37	04/03/20 22:33	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 19:37	04/03/20 22:33	7440-66-6	
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA							
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:37	04/03/20 16:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/01/20 18:37	04/03/20 16:53	7440-38-2	
Barium	<b>0.032</b>	mg/L	0.010	0.00049	1	04/01/20 18:37	04/03/20 16:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:37	04/03/20 16:53	7440-41-7	
Boron	<b>0.039J</b>	mg/L	0.10	0.0049	1	04/01/20 18:37	04/03/20 16:53	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:37	04/03/20 16:53	7440-43-9	
Chromium	<b>0.00056J</b>	mg/L	0.010	0.00039	1	04/01/20 18:37	04/03/20 16:53	7440-47-3	
Cobalt	<b>0.00062J</b>	mg/L	0.0050	0.00030	1	04/01/20 18:37	04/03/20 16:53	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:37	04/03/20 16:53	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:37	04/03/20 16:53	7439-92-1	
Nickel	<b>0.0021J</b>	mg/L	0.0050	0.00031	1	04/01/20 18:37	04/03/20 16:53	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:37	04/03/20 16:53	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:37	04/03/20 16:53	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:37	04/03/20 16:53	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:37	04/03/20 16:53	7440-62-2	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA							
Total Dissolved Solids	<b>112</b>	mg/L	10.0	10.0	1		04/02/20 17:55		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>1.2</b>	mg/L	1.0	0.60	1		04/02/20 18:00	16887-00-6	
Fluoride	<b>0.057J</b>	mg/L	0.30	0.050	1		04/02/20 18:00	16984-48-8	
Sulfate	<b>11.0</b>	mg/L	1.0	0.50	1		04/02/20 18:00	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWC-7		Lab ID: 2630525012		Collected: 03/30/20 15:17		Received: 03/31/20 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.48	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	47.8	mg/L	1.0	0.14	1	04/01/20 18:00	04/03/20 20:40	7440-70-2	
Zinc	0.051	mg/L	0.020	0.018	1	04/01/20 18:00	04/03/20 20:40	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:00	04/02/20 16:27	7440-36-0	
Arsenic	0.0052	mg/L	0.0050	0.00035	1	04/01/20 18:00	04/02/20 16:27	7440-38-2	B
Barium	0.21	mg/L	0.010	0.00049	1	04/01/20 18:00	04/02/20 16:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:00	04/02/20 16:27	7440-41-7	
Boron	0.049J	mg/L	0.10	0.0049	1	04/01/20 18:00	04/02/20 16:27	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:00	04/02/20 16:27	7440-43-9	
Chromium	0.00041J	mg/L	0.010	0.00039	1	04/01/20 18:00	04/02/20 16:27	7440-47-3	
Cobalt	0.012	mg/L	0.0050	0.00030	1	04/01/20 18:00	04/02/20 16:27	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:00	04/02/20 16:27	7440-50-8	
Lead	0.000048J	mg/L	0.0050	0.000046	1	04/01/20 18:00	04/02/20 16:27	7439-92-1	
Nickel	0.037	mg/L	0.0050	0.00031	1	04/01/20 18:00	04/02/20 16:27	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:00	04/02/20 16:27	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:00	04/02/20 16:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:00	04/02/20 16:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:00	04/02/20 16:27	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	216	mg/L	10.0	10.0	1		04/06/20 18:47		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.2	mg/L	1.0	0.60	1		04/04/20 22:59	16887-00-6	
Fluoride	0.16J	mg/L	0.30	0.050	1		04/04/20 22:59	16984-48-8	
Sulfate	64.6	mg/L	1.0	0.50	1		04/04/20 22:59	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: EB-01		Lab ID: 2630525013		Collected: 03/30/20 17:15		Received: 03/31/20 11:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D MET ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA								
Calcium	ND	mg/L	1.0	0.14	1	04/01/20 18:00	04/03/20 20:43	7440-70-2		
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 18:00	04/03/20 20:43	7440-66-6		
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA								
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:00	04/02/20 16:32	7440-36-0		
Arsenic	<b>0.00036J</b>	mg/L	0.0050	0.00035	1	04/01/20 18:00	04/02/20 16:32	7440-38-2	B	
Barium	ND	mg/L	0.010	0.00049	1	04/01/20 18:00	04/02/20 16:32	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:00	04/02/20 16:32	7440-41-7		
Boron	<b>0.0092J</b>	mg/L	0.10	0.0049	1	04/01/20 18:00	04/02/20 16:32	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:00	04/02/20 16:32	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	04/01/20 18:00	04/02/20 16:32	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	04/01/20 18:00	04/02/20 16:32	7440-48-4		
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:00	04/02/20 16:32	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:00	04/02/20 16:32	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00031	1	04/01/20 18:00	04/02/20 16:32	7440-02-0		
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:00	04/02/20 16:32	7782-49-2		
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:00	04/02/20 16:32	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:00	04/02/20 16:32	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:00	04/02/20 16:32	7440-62-2		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/06/20 18:47			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/05/20 22:13	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		04/05/20 22:13	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/05/20 22:13	14808-79-8		

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>GWC-18</b>		Lab ID: <b>2630525014</b>		Collected: 03/30/20 14:51		Received: 03/31/20 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	<b>7.65</b>	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	<b>45.7</b>	mg/L	1.0	0.14	1	04/01/20 18:00	04/03/20 20:47	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/01/20 18:00	04/03/20 20:47	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/01/20 18:00	04/02/20 16:38	7440-36-0	
Arsenic	<b>0.00073J</b>	mg/L	0.0050	0.00035	1	04/01/20 18:00	04/02/20 16:38	7440-38-2	B
Barium	<b>0.077</b>	mg/L	0.010	0.00049	1	04/01/20 18:00	04/02/20 16:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/01/20 18:00	04/02/20 16:38	7440-41-7	
Boron	<b>0.13</b>	mg/L	0.10	0.0049	1	04/01/20 18:00	04/02/20 16:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/01/20 18:00	04/02/20 16:38	7440-43-9	
Chromium	<b>0.00071J</b>	mg/L	0.010	0.00039	1	04/01/20 18:00	04/02/20 16:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/01/20 18:00	04/02/20 16:38	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/01/20 18:00	04/02/20 16:38	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/01/20 18:00	04/02/20 16:38	7439-92-1	
Nickel	<b>0.00048J</b>	mg/L	0.0050	0.00031	1	04/01/20 18:00	04/02/20 16:38	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/01/20 18:00	04/02/20 16:38	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/01/20 18:00	04/02/20 16:38	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/01/20 18:00	04/02/20 16:38	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/01/20 18:00	04/02/20 16:38	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	<b>217</b>	mg/L	10.0	10.0	1		04/06/20 18:47		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.0</b>	mg/L	1.0	0.60	1		04/04/20 23:29	16887-00-6	
Fluoride	<b>0.10J</b>	mg/L	0.30	0.050	1		04/04/20 23:29	16984-48-8	
Sulfate	<b>9.7</b>	mg/L	1.0	0.50	1		04/04/20 23:29	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>GWC-6</b>	Lab ID: <b>2630525015</b>	Collected: 03/31/20 12:30		Received: 04/01/20 10:30		Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	<b>7.17</b>	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	<b>70.6</b>	mg/L	1.0	0.14	1	04/02/20 14:30	04/02/20 19:22	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/02/20 14:30	04/02/20 19:22	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/02/20 19:04	04/08/20 18:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/02/20 19:04	04/08/20 18:28	7440-38-2	
Barium	<b>0.18</b>	mg/L	0.010	0.00049	1	04/02/20 19:04	04/08/20 18:28	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/02/20 19:04	04/08/20 18:28	7440-41-7	
Boron	<b>0.091J</b>	mg/L	0.10	0.0049	1	04/02/20 19:04	04/08/20 18:28	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/02/20 19:04	04/08/20 18:28	7440-43-9	
Chromium	<b>0.00085J</b>	mg/L	0.010	0.00039	1	04/02/20 19:04	04/08/20 18:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/02/20 19:04	04/08/20 18:28	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/02/20 19:04	04/08/20 18:28	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/02/20 19:04	04/08/20 18:28	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00031	1	04/02/20 19:04	04/08/20 18:28	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/02/20 19:04	04/08/20 18:28	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/02/20 19:04	04/08/20 18:28	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/02/20 19:04	04/08/20 18:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/02/20 19:04	04/08/20 18:28	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	<b>349</b>	mg/L	10.0	10.0	1		04/07/20 12:18		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.5</b>	mg/L	1.0	0.60	1		04/07/20 17:02	16887-00-6	
Fluoride	<b>0.053J</b>	mg/L	0.30	0.050	1		04/07/20 17:02	16984-48-8	
Sulfate	<b>106</b>	mg/L	2.0	1.0	2		04/08/20 07:03	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWC-5		Lab ID: 2630525016		Collected: 03/31/20 13:50		Received: 04/01/20 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.82	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	84.2	mg/L	1.0	0.14	1	04/02/20 14:30	04/02/20 19:25	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/02/20 14:30	04/02/20 19:25	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/02/20 19:04	04/08/20 18:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/02/20 19:04	04/08/20 18:34	7440-38-2	
Barium	0.064	mg/L	0.010	0.00049	1	04/02/20 19:04	04/08/20 18:34	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/02/20 19:04	04/08/20 18:34	7440-41-7	
Boron	0.057J	mg/L	0.10	0.0049	1	04/02/20 19:04	04/08/20 18:34	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/02/20 19:04	04/08/20 18:34	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/02/20 19:04	04/08/20 18:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/02/20 19:04	04/08/20 18:34	7440-48-4	
Copper	0.00019J	mg/L	0.0050	0.00019	1	04/02/20 19:04	04/08/20 18:34	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/02/20 19:04	04/08/20 18:34	7439-92-1	
Nickel	0.0013J	mg/L	0.0050	0.00031	1	04/02/20 19:04	04/08/20 18:34	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/02/20 19:04	04/08/20 18:34	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/02/20 19:04	04/08/20 18:34	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/02/20 19:04	04/08/20 18:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/02/20 19:04	04/08/20 18:34	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	408	mg/L	10.0	10.0	1		04/07/20 12:19		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.0	mg/L	1.0	0.60	1		04/07/20 17:16	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/07/20 17:16	16984-48-8	
Sulfate	92.6	mg/L	2.0	1.0	2		04/08/20 07:18	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>GWC-19</b>		Lab ID: <b>2630525017</b>		Collected: 03/31/20 07:52		Received: 04/01/20 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	<b>7.62</b>	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	<b>52.3</b>	mg/L	1.0	0.14	1	04/02/20 14:30	04/02/20 19:29	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/02/20 14:30	04/02/20 19:29	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/02/20 19:04	04/09/20 10:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/02/20 19:04	04/09/20 10:57	7440-38-2	
Barium	<b>0.17</b>	mg/L	0.010	0.00049	1	04/02/20 19:04	04/09/20 10:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/02/20 19:04	04/09/20 10:57	7440-41-7	
Boron	<b>0.18</b>	mg/L	0.10	0.0049	1	04/02/20 19:04	04/09/20 10:57	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/02/20 19:04	04/09/20 10:57	7440-43-9	
Chromium	<b>0.00042J</b>	mg/L	0.010	0.00039	1	04/02/20 19:04	04/09/20 10:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/02/20 19:04	04/09/20 10:57	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/02/20 19:04	04/09/20 10:57	7440-50-8	
Lead	<b>0.000061J</b>	mg/L	0.0050	0.000046	1	04/02/20 19:04	04/09/20 10:57	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00031	1	04/02/20 19:04	04/09/20 10:57	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/02/20 19:04	04/09/20 10:57	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/02/20 19:04	04/09/20 10:57	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/02/20 19:04	04/09/20 10:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/02/20 19:04	04/09/20 10:57	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	<b>233</b>	mg/L	10.0	10.0	1		04/07/20 12:19		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.3</b>	mg/L	1.0	0.60	1		04/07/20 18:12	16887-00-6	
Fluoride	<b>0.099J</b>	mg/L	0.30	0.050	1		04/07/20 18:12	16984-48-8	
Sulfate	<b>17.8</b>	mg/L	1.0	0.50	1		04/07/20 18:12	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWC-20		Lab ID: 2630525018		Collected: 03/31/20 10:48		Received: 04/01/20 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.57	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	63.6	mg/L	1.0	0.14	1	04/02/20 14:30	04/02/20 19:32	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/02/20 14:30	04/02/20 19:32	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/02/20 19:04	04/08/20 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/02/20 19:04	04/08/20 18:45	7440-38-2	
Barium	0.15	mg/L	0.010	0.00049	1	04/02/20 19:04	04/08/20 18:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/02/20 19:04	04/08/20 18:45	7440-41-7	
Boron	0.024J	mg/L	0.10	0.0049	1	04/02/20 19:04	04/08/20 18:45	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/02/20 19:04	04/08/20 18:45	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/02/20 19:04	04/08/20 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/02/20 19:04	04/08/20 18:45	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	04/02/20 19:04	04/08/20 18:45	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/02/20 19:04	04/08/20 18:45	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00031	1	04/02/20 19:04	04/08/20 18:45	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/02/20 19:04	04/08/20 18:45	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/02/20 19:04	04/08/20 18:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/02/20 19:04	04/08/20 18:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/02/20 19:04	04/08/20 18:45	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	267	mg/L	10.0	10.0	1		04/07/20 12:19		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		04/07/20 18:26	16887-00-6	
Fluoride	0.054J	mg/L	0.30	0.050	1		04/07/20 18:26	16984-48-8	
Sulfate	53.6	mg/L	1.0	0.50	1		04/07/20 18:26	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: <b>GWC-21</b>		Lab ID: <b>2630525019</b>		Collected: 03/31/20 15:18		Received: 04/01/20 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	<b>6.33</b>	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	<b>25.6</b>	mg/L	1.0	0.14	1	04/02/20 14:30	04/02/20 19:36	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/02/20 14:30	04/02/20 19:36	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/02/20 19:04	04/08/20 18:51	7440-36-0	
Arsenic	<b>0.00035J</b>	mg/L	0.0050	0.00035	1	04/02/20 19:04	04/08/20 18:51	7440-38-2	B
Barium	<b>0.044</b>	mg/L	0.010	0.00049	1	04/02/20 19:04	04/08/20 18:51	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/02/20 19:04	04/08/20 18:51	7440-41-7	
Boron	<b>0.022J</b>	mg/L	0.10	0.0049	1	04/02/20 19:04	04/08/20 18:51	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/02/20 19:04	04/08/20 18:51	7440-43-9	
Chromium	<b>0.00093J</b>	mg/L	0.010	0.00039	1	04/02/20 19:04	04/08/20 18:51	7440-47-3	
Cobalt	<b>0.0019J</b>	mg/L	0.0050	0.00030	1	04/02/20 19:04	04/08/20 18:51	7440-48-4	
Copper	<b>0.00082J</b>	mg/L	0.0050	0.00019	1	04/02/20 19:04	04/08/20 18:51	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	04/02/20 19:04	04/08/20 18:51	7439-92-1	
Nickel	<b>0.0039J</b>	mg/L	0.0050	0.00031	1	04/02/20 19:04	04/08/20 18:51	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/02/20 19:04	04/08/20 18:51	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/02/20 19:04	04/08/20 18:51	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/02/20 19:04	04/08/20 18:51	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/02/20 19:04	04/08/20 18:51	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	<b>111</b>	mg/L	10.0	10.0	1		04/07/20 12:19		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.5</b>	mg/L	1.0	0.60	1		04/07/20 18:40	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/07/20 18:40	16984-48-8	
Sulfate	<b>29.9</b>	mg/L	1.0	0.50	1		04/07/20 18:40	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Sample: GWC-22		Lab ID: 2630525020		Collected: 03/31/20 12:33		Received: 04/01/20 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.80	Std. Units			1		04/07/20 14:39		
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	51.5	mg/L	1.0	0.14	1	04/02/20 14:30	04/02/20 19:39	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/02/20 14:30	04/02/20 19:39	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/02/20 19:04	04/08/20 18:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/02/20 19:04	04/08/20 18:57	7440-38-2	
Barium	0.10	mg/L	0.010	0.00049	1	04/02/20 19:04	04/08/20 18:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/02/20 19:04	04/08/20 18:57	7440-41-7	
Boron	0.067J	mg/L	0.10	0.0049	1	04/02/20 19:04	04/08/20 18:57	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/02/20 19:04	04/08/20 18:57	7440-43-9	
Chromium	0.0015J	mg/L	0.010	0.00039	1	04/02/20 19:04	04/08/20 18:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/02/20 19:04	04/08/20 18:57	7440-48-4	
Copper	0.00020J	mg/L	0.0050	0.00019	1	04/02/20 19:04	04/08/20 18:57	7440-50-8	
Lead	0.00013J	mg/L	0.0050	0.000046	1	04/02/20 19:04	04/08/20 18:57	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00031	1	04/02/20 19:04	04/08/20 18:57	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	04/02/20 19:04	04/08/20 18:57	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	04/02/20 19:04	04/08/20 18:57	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	04/02/20 19:04	04/08/20 18:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/02/20 19:04	04/08/20 18:57	7440-62-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	195	mg/L	10.0	10.0	1		04/07/20 12:19		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.0	mg/L	1.0	0.60	1		04/07/20 18:54	16887-00-6	
Fluoride	0.055J	mg/L	0.30	0.050	1		04/07/20 18:54	16984-48-8	
Sulfate	10.9	mg/L	1.0	0.50	1		04/07/20 18:54	14808-79-8	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch:	45185	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630525001, 2630525002, 2630525003, 2630525004, 2630525005, 2630525006, 2630525007, 2630525008, 2630525009, 2630525010, 2630525011

METHOD BLANK: 208195 Matrix: Water  
Associated Lab Samples: 2630525001, 2630525002, 2630525003, 2630525004, 2630525005, 2630525006, 2630525007, 2630525008, 2630525009, 2630525010, 2630525011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	04/03/20 20:54	
Zinc	mg/L	ND	0.020	0.018	04/03/20 20:54	

LABORATORY CONTROL SAMPLE: 208196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Zinc	mg/L	1	0.92	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 208197 208198

Parameter	Units	2630471005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	27.0	1	1	27.9	28.3	89	125	75-125	1	20	
Zinc	mg/L	ND	1	1	0.89	0.88	88	88	75-125	0	20	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 45190 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D MET  
Laboratory: Pace Analytical Services - Atlanta, GA  
Associated Lab Samples: 2630525012, 2630525013, 2630525014

METHOD BLANK: 208222 Matrix: Water  
Associated Lab Samples: 2630525012, 2630525013, 2630525014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	04/03/20 19:19	
Zinc	mg/L	ND	0.020	0.018	04/03/20 19:19	

LABORATORY CONTROL SAMPLE: 208223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Zinc	mg/L	1	0.90	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 208224 208225

Parameter	Units	2630623001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	7420 ug/L	1	1	8.7	8.6	124	119	75-125	1	20	
Zinc	mg/L	ND	1	1	0.93	0.93	93	93	75-125	0	20	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

QC Batch:	45218	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630525015, 2630525016, 2630525017, 2630525018, 2630525019, 2630525020

METHOD BLANK: 208341 Matrix: Water  
Associated Lab Samples: 2630525015, 2630525016, 2630525017, 2630525018, 2630525019, 2630525020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	04/02/20 18:14	
Zinc	mg/L	ND	0.020	0.018	04/02/20 18:14	

LABORATORY CONTROL SAMPLE: 208342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	
Zinc	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 208343 208344

Parameter	Units	2630471018		208344		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	124	1	1	128	131	368	75-125	3	20	M1
Zinc	mg/L	ND	1	1	0.95	0.96	94	75-125	2	20	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch:	45184	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020B MET
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630525001, 2630525002, 2630525004, 2630525005, 2630525006, 2630525007, 2630525008, 2630525009, 2630525010, 2630525011

METHOD BLANK: 208191 Matrix: Water  
Associated Lab Samples: 2630525001, 2630525002, 2630525004, 2630525005, 2630525006, 2630525007, 2630525008, 2630525009, 2630525010, 2630525011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	04/03/20 15:05	
Arsenic	mg/L	ND	0.0050	0.00035	04/03/20 15:05	
Barium	mg/L	ND	0.010	0.00049	04/03/20 15:05	
Beryllium	mg/L	ND	0.0030	0.000074	04/03/20 15:05	
Boron	mg/L	ND	0.10	0.0049	04/03/20 15:05	
Cadmium	mg/L	ND	0.0025	0.00011	04/03/20 15:05	
Chromium	mg/L	ND	0.010	0.00039	04/03/20 15:05	
Cobalt	mg/L	ND	0.0050	0.00030	04/03/20 15:05	
Copper	mg/L	ND	0.0050	0.00019	04/03/20 15:05	
Lead	mg/L	ND	0.0050	0.000046	04/03/20 15:05	
Nickel	mg/L	ND	0.0050	0.00031	04/03/20 15:05	
Selenium	mg/L	ND	0.010	0.0013	04/03/20 15:05	
Silver	mg/L	ND	0.0050	0.00028	04/03/20 15:05	
Thallium	mg/L	ND	0.0010	0.000052	04/03/20 15:05	
Vanadium	mg/L	ND	0.010	0.00071	04/03/20 15:05	

LABORATORY CONTROL SAMPLE: 208192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Copper	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Nickel	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Silver	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.098	98	80-120	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Parameter	Units	2630325039		208193		208194		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	0	20			
Arsenic	mg/L	0.00051J	0.1	0.1	0.10	0.10	99	100	75-125	1	20			
Barium	mg/L	0.046	0.1	0.1	0.15	0.14	100	98	75-125	1	20			
Beryllium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20			
Boron	mg/L	1.9	1	1	2.9	2.9	91	92	75-125	1	20			
Cadmium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20			
Chromium	mg/L	0.00058J	0.1	0.1	0.10	0.10	101	103	75-125	2	20			
Cobalt	mg/L	0.00056J	0.1	0.1	0.10	0.10	100	101	75-125	1	20			
Copper	mg/L	ND	0.1	0.1	0.096	0.097	95	97	75-125	2	20			
Lead	mg/L	0.00017J	0.1	0.1	0.092	0.092	91	92	75-125	0	20			
Nickel	mg/L	0.00056J	0.1	0.1	0.098	0.099	97	99	75-125	1	20			
Selenium	mg/L	0.0039J	0.1	0.1	0.10	0.11	100	104	75-125	4	20			
Silver	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20			
Thallium	mg/L	0.00014J	0.1	0.1	0.093	0.095	93	95	75-125	2	20			
Vanadium	mg/L	0.00080J	0.1	0.1	0.10	0.11	104	105	75-125	1	20			

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 45189 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020B MET  
Laboratory: Pace Analytical Services - Atlanta, GA  
Associated Lab Samples: 2630525012, 2630525013, 2630525014

METHOD BLANK: 208216 Matrix: Water  
Associated Lab Samples: 2630525012, 2630525013, 2630525014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	04/02/20 14:43	
Arsenic	mg/L	0.00071J	0.0050	0.00035	04/02/20 14:43	
Barium	mg/L	ND	0.010	0.00049	04/02/20 14:43	
Beryllium	mg/L	ND	0.0030	0.000074	04/02/20 14:43	
Boron	mg/L	ND	0.10	0.0049	04/02/20 14:43	
Cadmium	mg/L	ND	0.0025	0.00011	04/02/20 14:43	
Chromium	mg/L	ND	0.010	0.00039	04/02/20 14:43	
Cobalt	mg/L	ND	0.0050	0.00030	04/02/20 14:43	
Copper	mg/L	ND	0.0050	0.00019	04/02/20 14:43	
Lead	mg/L	ND	0.0050	0.000046	04/02/20 14:43	
Nickel	mg/L	ND	0.0050	0.00031	04/02/20 14:43	
Selenium	mg/L	ND	0.010	0.0013	04/02/20 14:43	
Silver	mg/L	ND	0.0050	0.00028	04/02/20 14:43	
Thallium	mg/L	ND	0.0010	0.000052	04/02/20 14:43	
Vanadium	mg/L	0.00088J	0.010	0.00071	04/02/20 14:43	

LABORATORY CONTROL SAMPLE: 208217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Copper	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Nickel	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Silver	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.099	99	80-120	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 208218		208219		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2630600001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.099	0.098	98	96	75-125	2	20		
Barium	mg/L	0.021	0.1	0.1	0.12	0.12	97	98	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Boron	mg/L	ND	1	1	1.0	1.0	100	98	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		
Copper	mg/L	ND	0.1	0.1	0.095	0.094	94	94	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		
Nickel	mg/L	ND	0.1	0.1	0.096	0.095	95	95	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.097	0.096	96	95	75-125	1	20		
Silver	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20		
Vanadium	mg/L	ND	0.1	0.1	0.10	0.098	99	97	75-125	2	20		

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 45226 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020B MET  
Laboratory: Pace Analytical Services - Atlanta, GA  
Associated Lab Samples: 2630525015, 2630525016, 2630525017, 2630525018, 2630525019, 2630525020

METHOD BLANK: 208424 Matrix: Water  
Associated Lab Samples: 2630525015, 2630525016, 2630525017, 2630525018, 2630525019, 2630525020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	04/08/20 16:57	
Arsenic	mg/L	0.00095J	0.0050	0.00035	04/08/20 16:57	
Barium	mg/L	ND	0.010	0.00049	04/08/20 16:57	
Beryllium	mg/L	ND	0.0030	0.000074	04/08/20 16:57	
Boron	mg/L	ND	0.10	0.0049	04/08/20 16:57	
Cadmium	mg/L	ND	0.0025	0.00011	04/08/20 16:57	
Chromium	mg/L	ND	0.010	0.00039	04/08/20 16:57	
Cobalt	mg/L	ND	0.0050	0.00030	04/08/20 16:57	
Copper	mg/L	ND	0.0050	0.00019	04/08/20 16:57	
Lead	mg/L	ND	0.0050	0.000046	04/08/20 16:57	
Nickel	mg/L	ND	0.0050	0.00031	04/08/20 16:57	
Selenium	mg/L	ND	0.010	0.0013	04/08/20 16:57	
Silver	mg/L	ND	0.0050	0.00028	04/08/20 16:57	
Thallium	mg/L	ND	0.0010	0.000052	04/08/20 16:57	
Vanadium	mg/L	0.0038J	0.010	0.00071	04/08/20 16:57	

LABORATORY CONTROL SAMPLE: 208425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Copper	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Nickel	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Silver	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.10	102	80-120	

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**QUALITY CONTROL DATA**

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Parameter	Units	208426		208427		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Arsenic	mg/L	0.0022J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Barium	mg/L	0.026	0.1	0.1	0.13	0.13	107	108	75-125	0	20	
Beryllium	mg/L	0.00015J	0.1	0.1	0.097	0.098	97	97	75-125	0	20	
Boron	mg/L	0.17	1	1	1.2	1.2	102	106	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	2	20	
Cobalt	mg/L	0.0014J	0.1	0.1	0.099	0.10	97	99	75-125	1	20	
Copper	mg/L	0.00029J	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lead	mg/L	0.00030J	0.1	0.1	0.092	0.094	92	93	75-125	2	20	
Nickel	mg/L	0.00086J	0.1	0.1	0.096	0.097	95	97	75-125	2	20	
Selenium	mg/L	0.019	0.1	0.1	0.12	0.12	102	99	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.098	0.096	98	96	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 45956 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020B MET  
Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630525003

METHOD BLANK: 212690 Matrix: Water  
Associated Lab Samples: 2630525003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	04/30/20 18:19	
Arsenic	mg/L	0.0013J	0.0050	0.00035	04/30/20 18:19	
Barium	mg/L	ND	0.010	0.00049	04/30/20 18:19	
Beryllium	mg/L	ND	0.0030	0.000074	04/30/20 18:19	
Boron	mg/L	ND	0.10	0.0049	04/30/20 18:19	
Cadmium	mg/L	ND	0.0025	0.00011	04/30/20 18:19	
Chromium	mg/L	ND	0.010	0.00039	04/30/20 18:19	
Cobalt	mg/L	ND	0.0050	0.00030	04/30/20 18:19	
Copper	mg/L	ND	0.0050	0.00019	04/30/20 18:19	
Lead	mg/L	ND	0.0050	0.000046	04/30/20 18:19	
Nickel	mg/L	ND	0.0050	0.00031	04/30/20 18:19	
Selenium	mg/L	ND	0.010	0.0013	04/30/20 18:19	
Silver	mg/L	ND	0.0050	0.00028	04/30/20 18:19	
Thallium	mg/L	ND	0.0010	0.000052	04/30/20 18:19	
Vanadium	mg/L	0.0043J	0.010	0.00071	04/30/20 18:19	

LABORATORY CONTROL SAMPLE: 212691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Copper	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Nickel	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Silver	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	

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**QUALITY CONTROL DATA**

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Parameter	Units	212692		212693		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2630525003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Barium	mg/L	0.071	0.1	0.1	0.19	0.18	118	110	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Boron	mg/L	0.042J	1	1	1.0	1.0	100	95	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	0.00035J	0.1	0.1	0.10	0.10	103	103	75-125	1	20	
Copper	mg/L	0.00067J	0.1	0.1	0.10	0.10	102	99	75-125	3	20	
Lead	mg/L	0.00016J	0.1	0.1	0.10	0.099	101	98	75-125	3	20	
Nickel	mg/L	0.0010J	0.1	0.1	0.10	0.10	101	100	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Silver	mg/L	ND	0.1	0.1	0.10	0.097	101	97	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	3	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

QC Batch: 45207	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630525001, 2630525002

LABORATORY CONTROL SAMPLE: 208287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	341	85	84-108	

SAMPLE DUPLICATE: 208288

Parameter	Units	2630482003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	79.0	57.0	32	10	D6

SAMPLE DUPLICATE: 208289

Parameter	Units	2630472006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	69.0	80.0	15	10	D6

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

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QC Batch:	45209	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630525003, 2630525004, 2630525005, 2630525006, 2630525007, 2630525008, 2630525009, 2630525010, 2630525011

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LABORATORY CONTROL SAMPLE: 208290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	84-108	

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SAMPLE DUPLICATE: 208291

Parameter	Units	2630525003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	193	188	3	10	

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SAMPLE DUPLICATE: 208292

Parameter	Units	2630471008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	413	422	2	10	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

QC Batch:	45274	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630525012, 2630525013, 2630525014

LABORATORY CONTROL SAMPLE: 208728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	84-108	

SAMPLE DUPLICATE: 208729

Parameter	Units	2630576001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6300	6560	4	10	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

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QC Batch: 45302	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630525015, 2630525016, 2630525017, 2630525018, 2630525019, 2630525020

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LABORATORY CONTROL SAMPLE: 208859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	368	92	84-108	

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SAMPLE DUPLICATE: 208860

Parameter	Units	2630471018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	565	535	5	10	

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SAMPLE DUPLICATE: 208861

Parameter	Units	2630525018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	269	1	10	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 533972 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 2630525008, 2630525009

METHOD BLANK: 2849817 Matrix: Water  
Associated Lab Samples: 2630525008, 2630525009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/02/20 23:19	
Fluoride	mg/L	ND	0.10	0.050	04/02/20 23:19	
Sulfate	mg/L	ND	1.0	0.50	04/02/20 23:19	

LABORATORY CONTROL SAMPLE: 2849818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.7	95	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849819 2849820

Parameter	Units	2630435024		2849819		2849820		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	5.4	5.4	50	50	56.3	57.7	102	105	90-110	2	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.7	2.7	106	108	90-110	2	10	
Sulfate	mg/L	ND	ND	50	50	51.2	52.1	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849821 2849822

Parameter	Units	2630449009		2849821		2849822		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	1.6	1.6	50	50	54.0	53.9	105	105	90-110	0	10	
Fluoride	mg/L	0.13J	0.13J	2.5	2.5	2.8	2.8	107	107	90-110	0	10	
Sulfate	mg/L	39.1	39.1	50	50	89.7	89.4	101	101	90-110	0	10	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 533983 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 2630525010, 2630525011

METHOD BLANK: 2849870 Matrix: Water  
Associated Lab Samples: 2630525010, 2630525011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/02/20 16:46	
Fluoride	mg/L	ND	0.10	0.050	04/02/20 16:46	
Sulfate	mg/L	ND	1.0	0.50	04/02/20 16:46	

LABORATORY CONTROL SAMPLE: 2849871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849872 2849873

Parameter	Units	2630525010		2849873		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	1.2	50	56.1	56.3	110	110	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.6	2.7	103	105	90-110	2	10	
Sulfate	mg/L	10.8	50	65.8	66.0	110	110	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849874 2849875

Parameter	Units	92471182001		2849875		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	3.2	50	57.8	59.5	109	113	90-110	3	10 M1	
Fluoride	mg/L	0.12	2.5	2.8	2.9	109	113	90-110	4	10 M1	
Sulfate	mg/L	ND	50	54.8	56.8	109	112	90-110	3	10 M1	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 533985 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 2630525001

METHOD BLANK: 2849882 Matrix: Water  
Associated Lab Samples: 2630525001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/02/20 23:48	
Fluoride	mg/L	ND	0.10	0.050	04/02/20 23:48	
Sulfate	mg/L	ND	1.0	0.50	04/02/20 23:48	

LABORATORY CONTROL SAMPLE: 2849883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849884 2849885

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2630472001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	20.4	50	50	75.6	76.0	110	111	90-110	1	10	M1	
Fluoride	mg/L	0.098J	2.5	2.5	2.7	2.8	104	106	90-110	2	10		
Sulfate	mg/L	85.9	50	50	138	138	103	104	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849886 2849887

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2630471007 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	0.73J	50	50	58.0	58.4	114	115	90-110	1	10	M1	
Fluoride	mg/L	0.082J	2.5	2.5	2.8	2.8	109	109	90-110	0	10		
Sulfate	mg/L	176	50	50	227	231	102	109	90-110	2	10		

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 534237 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 2630525002, 2630525003, 2630525004, 2630525005, 2630525006, 2630525007

METHOD BLANK: 2851088 Matrix: Water  
Associated Lab Samples: 2630525002, 2630525003, 2630525004, 2630525005, 2630525006, 2630525007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/04/20 14:53	
Fluoride	mg/L	ND	0.10	0.050	04/04/20 14:53	
Sulfate	mg/L	ND	1.0	0.50	04/04/20 14:53	

LABORATORY CONTROL SAMPLE: 2851089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	48.6	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2851147 2851148

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2630471014 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	1.5	50	50	50.2	50.4	97	98	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	105	90-110	0	10		
Sulfate	mg/L	46.2	50	50	93.5	93.5	95	95	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2851149 2851150

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92471612001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	391	50	50	392	404	0	25	90-110	3	10	M6	
Fluoride	mg/L	0.27	2.5	2.5	2.6	2.6	93	94	90-110	1	10		
Sulfate	mg/L	119	50	50	161	166	83	93	90-110	3	10	M6	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 534273 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 2630525012, 2630525013, 2630525014

METHOD BLANK: 2851230 Matrix: Water  
Associated Lab Samples: 2630525012, 2630525013, 2630525014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/05/20 21:29	
Fluoride	mg/L	ND	0.10	0.050	04/05/20 21:29	
Sulfate	mg/L	ND	1.0	0.50	04/05/20 21:29	

LABORATORY CONTROL SAMPLE: 2851231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.7	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2851232 2851233

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92471690017	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	71.4	50	50	50	122	122	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	2.4	100	97	90-110	3	10	
Sulfate	mg/L	86.6	50	50	50	139	138	104	103	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2851234 2851235

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92471917001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	160	50	50	50	211	211	103	102	90-110	0	10	
Fluoride	mg/L	0.26	2.5	2.5	2.5	2.8	2.9	102	105	90-110	3	10	
Sulfate	mg/L	23.7	50	50	50	77.9	78.8	108	110	90-110	1	10	

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### QUALITY CONTROL DATA

Project: HAMMOND HUFFAKER 1ST SA  
Pace Project No.: 2630525

QC Batch: 534464 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 2630525015, 2630525016, 2630525017, 2630525018, 2630525019, 2630525020

METHOD BLANK: 2852257 Matrix: Water  
Associated Lab Samples: 2630525015, 2630525016, 2630525017, 2630525018, 2630525019, 2630525020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/07/20 12:08	
Fluoride	mg/L	ND	0.10	0.050	04/07/20 12:08	
Sulfate	mg/L	ND	1.0	0.50	04/07/20 12:08	

LABORATORY CONTROL SAMPLE: 2852258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.4	107	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	53.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2852259 2852260

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92472183011 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	7.7	50	50	57.4	59.2	99	103	90-110	3	10		
Fluoride	mg/L	0.056J	2.5	2.5	2.3	2.4	90	95	90-110	5	10		
Sulfate	mg/L	321	50	50	362	349	81	55	90-110	4	10 M6		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2852261 2852262

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92472188012 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	3.2	50	50	54.5	59.5	103	113	90-110	9	10 M1		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	99	100	90-110	1	10		
Sulfate	mg/L	9.3	50	50	59.4	59.9	100	101	90-110	1	10		

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## QUALIFIERS

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630525001	GWA-2				
2630525002	GWA-1				
2630525003	GWC-23				
2630525005	GWA-4				
2630525006	GWA-3				
2630525007	GWA-11				
2630525008	GWC-9				
2630525009	GWC-8				
2630525010	GWC-10				
2630525012	GWC-7				
2630525014	GWC-18				
2630525015	GWC-6				
2630525016	GWC-5				
2630525017	GWC-19				
2630525018	GWC-20				
2630525019	GWC-21				
2630525020	GWC-22				
2630525001	GWA-2	EPA 3010A	45185	EPA 6010D	45196
2630525002	GWA-1	EPA 3010A	45185	EPA 6010D	45196
2630525003	GWC-23	EPA 3010A	45185	EPA 6010D	45196
2630525004	FB-05	EPA 3010A	45185	EPA 6010D	45196
2630525005	GWA-4	EPA 3010A	45185	EPA 6010D	45196
2630525006	GWA-3	EPA 3010A	45185	EPA 6010D	45196
2630525007	GWA-11	EPA 3010A	45185	EPA 6010D	45196
2630525008	GWC-9	EPA 3010A	45185	EPA 6010D	45196
2630525009	GWC-8	EPA 3010A	45185	EPA 6010D	45196
2630525010	GWC-10	EPA 3010A	45185	EPA 6010D	45196
2630525011	FD-05	EPA 3010A	45185	EPA 6010D	45196
2630525012	GWC-7	EPA 3010A	45190	EPA 6010D	45194
2630525013	EB-01	EPA 3010A	45190	EPA 6010D	45194
2630525014	GWC-18	EPA 3010A	45190	EPA 6010D	45194
2630525015	GWC-6	EPA 3010A	45218	EPA 6010D	45223
2630525016	GWC-5	EPA 3010A	45218	EPA 6010D	45223
2630525017	GWC-19	EPA 3010A	45218	EPA 6010D	45223
2630525018	GWC-20	EPA 3010A	45218	EPA 6010D	45223
2630525019	GWC-21	EPA 3010A	45218	EPA 6010D	45223
2630525020	GWC-22	EPA 3010A	45218	EPA 6010D	45223
2630525001	GWA-2	EPA 3005A	45184	EPA 6020B	45197
2630525002	GWA-1	EPA 3005A	45184	EPA 6020B	45197
2630525003	GWC-23	EPA 3005A	45956	EPA 6020B	45957
2630525004	FB-05	EPA 3005A	45184	EPA 6020B	45197
2630525005	GWA-4	EPA 3005A	45184	EPA 6020B	45197
2630525006	GWA-3	EPA 3005A	45184	EPA 6020B	45197
2630525007	GWA-11	EPA 3005A	45184	EPA 6020B	45197
2630525008	GWC-9	EPA 3005A	45184	EPA 6020B	45197
2630525009	GWC-8	EPA 3005A	45184	EPA 6020B	45197

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630525010	GWC-10	EPA 3005A	45184	EPA 6020B	45197
2630525011	FD-05	EPA 3005A	45184	EPA 6020B	45197
2630525012	GWC-7	EPA 3005A	45189	EPA 6020B	45195
2630525013	EB-01	EPA 3005A	45189	EPA 6020B	45195
2630525014	GWC-18	EPA 3005A	45189	EPA 6020B	45195
2630525015	GWC-6	EPA 3005A	45226	EPA 6020B	45233
2630525016	GWC-5	EPA 3005A	45226	EPA 6020B	45233
2630525017	GWC-19	EPA 3005A	45226	EPA 6020B	45233
2630525018	GWC-20	EPA 3005A	45226	EPA 6020B	45233
2630525019	GWC-21	EPA 3005A	45226	EPA 6020B	45233
2630525020	GWC-22	EPA 3005A	45226	EPA 6020B	45233
2630525001	GWA-2	SM 2540C	45207		
2630525002	GWA-1	SM 2540C	45207		
2630525003	GWC-23	SM 2540C	45209		
2630525004	FB-05	SM 2540C	45209		
2630525005	GWA-4	SM 2540C	45209		
2630525006	GWA-3	SM 2540C	45209		
2630525007	GWA-11	SM 2540C	45209		
2630525008	GWC-9	SM 2540C	45209		
2630525009	GWC-8	SM 2540C	45209		
2630525010	GWC-10	SM 2540C	45209		
2630525011	FD-05	SM 2540C	45209		
2630525012	GWC-7	SM 2540C	45274		
2630525013	EB-01	SM 2540C	45274		
2630525014	GWC-18	SM 2540C	45274		
2630525015	GWC-6	SM 2540C	45302		
2630525016	GWC-5	SM 2540C	45302		
2630525017	GWC-19	SM 2540C	45302		
2630525018	GWC-20	SM 2540C	45302		
2630525019	GWC-21	SM 2540C	45302		
2630525020	GWC-22	SM 2540C	45302		
2630525001	GWA-2	EPA 300.0 Rev 2.1 1993	533985		
2630525002	GWA-1	EPA 300.0 Rev 2.1 1993	534237		
2630525003	GWC-23	EPA 300.0 Rev 2.1 1993	534237		
2630525004	FB-05	EPA 300.0 Rev 2.1 1993	534237		
2630525005	GWA-4	EPA 300.0 Rev 2.1 1993	534237		
2630525006	GWA-3	EPA 300.0 Rev 2.1 1993	534237		
2630525007	GWA-11	EPA 300.0 Rev 2.1 1993	534237		
2630525008	GWC-9	EPA 300.0 Rev 2.1 1993	533972		
2630525009	GWC-8	EPA 300.0 Rev 2.1 1993	533972		
2630525010	GWC-10	EPA 300.0 Rev 2.1 1993	533983		
2630525011	FD-05	EPA 300.0 Rev 2.1 1993	533983		
2630525012	GWC-7	EPA 300.0 Rev 2.1 1993	534273		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND HUFFAKER 1ST SA

Pace Project No.: 2630525

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630525013	EB-01	EPA 300.0 Rev 2.1 1993	534273		
2630525014	GWC-18	EPA 300.0 Rev 2.1 1993	534273		
2630525015	GWC-6	EPA 300.0 Rev 2.1 1993	534464		
2630525016	GWC-5	EPA 300.0 Rev 2.1 1993	534464		
2630525017	GWC-19	EPA 300.0 Rev 2.1 1993	534464		
2630525018	GWC-20	EPA 300.0 Rev 2.1 1993	534464		
2630525019	GWC-21	EPA 300.0 Rev 2.1 1993	534464		
2630525020	GWC-22	EPA 300.0 Rev 2.1 1993	534464		

### REPORT OF LABORATORY ANALYSIS

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### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

<b>Section A</b> Required Client Information		<b>Section B</b> Required Project Information		<b>Section C</b> Invoicing Information	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Geosyntec Contacts	Attention: Southern Co.	Company Name: Southern Co.
Requested Due Date/Date:	10 Day	Purchase Order No.:	1471	Address:	
Requested Due Date/Date:	10 Day	Project Name:	Plant Hammond Hulfaker Semiaromatic (Complex)	Reference:	Kevin Herring
		Project Number:	GW6581B	Pace Quote:	
				Pace Project:	
				Pace Profile #:	2912-8

ITEM #	Section D Required Client Information	Valid Matrix Codes CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH =			
					DATE	TIME							DATE	TIME											
															Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl					NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol
1	GWA-2				3/26	1041					15	3	2	1	1										
2	GWA-1				3/26	1367					16	3	2	1	1										
3	GWC-23				3/26	1634					18	3	2	1	1										
4	FB-05				3/26	1755					25	3	2	1	1										
5												3	2	1	1										
6												3	2	1	1										
7												3	2	1	1										
8												3	2	1	1										
9												3	2	1	1										
10												3	2	1	1										
11												3	2	1	1										
12												3	2	1	1										

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP IN °C	RECEIVED ON ICE (Y/N)	CUSTODY SEALED COOLER (Y/N)	SAMPLES INTACT (Y/N)
Lead Russo / GCO	3/26	1800	Kevin Herring / Southern Co.	3/26	1800		Y	N	Y
Kevin Herring / Southern Co.	3/26	1943	Kevin Herring / Southern Co.	3/26	1943		Y	N	Y
Kevin Herring / Southern Co.	3/26	1300	Kevin Herring / Southern Co.	3/27	1300		Y	N	Y
Kevin Herring / Southern Co.	3/27	1541	Kevin Herring / Southern Co.	3/27	1541		Y	N	Y

Signature of Sampler: Lead Russo Date Signed: 3/26/2020

Signature of Analytical Lab: Kevin Herring Date Signed: 3/26/2020

Important Note: By signing this form you are accepting Pace's NET 30 Day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.







CHAIN-OF-CUSTODY / Analytical Request Document

**Section A**  
 Required Client Information:  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: SCS Contacts  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: 10 Day

**Section B**  
 Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Geosyntec Contacts  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: Plant Hammond Hufferaker Semiannual Compliance  
 Project Number: GW6581B

**Section C**  
 Invoicing Information:  
 Attention: Southern Co.  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Dept: \_\_\_\_\_  
 Reference: \_\_\_\_\_  
 Manager: Kevin Herring  
 Pace Profile #: 2912-8

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER (specify): \_\_\_\_\_  
 Site Location: \_\_\_\_\_  
 STATE: GA

ITEM #	Valid Matrix Codes DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	SCS CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test			Residual Chlorine (Y/N)	pH =								
											Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Y/N	Y/N			Y/N							
1					3/27	0700		17		3	2	1																		
2					3/27	1249		19		3	2	1																		
3										3	2	1																		
4										3	2	1																		
5										3	2	1																		
6										3	2	1																		
7										3	2	1																		
8										3	2	1																		
9										3	2	1																		
10										3	2	1																		
11										3	2	1																		
12										3	2	1																		

**ADDITIONAL COMMENTS**  
 Relinquished by Affiliation: \_\_\_\_\_  
 Date: 3/27/20  
 Time: 1505  
 Accepted by Affiliation: \_\_\_\_\_  
 Date: 3/27/20  
 Time: 1815

**SAMPLE CONDITIONS**  
 Temp in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Chad Russo  
 SIGNATURE of SAMPLER: *Chad Russo*  
 DATE Signed (MM/DD/YY): 3/17/2020

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 30 days.





CHAIN-OF-CUSTODY / Analytical Request Document

Section A Required Client Information Section B Required Project Information Section C Invoice Information

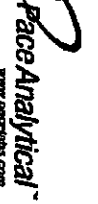
Company: GA Power, Address: Atlanta, GA, Report for: SCS Contacts, Project Name: Plant Hammond Hubbaker Semiannual Compliance Sampling, Reference: Kevin Herring, Project Number: GW658118, State: GA

Table with columns: ITEM #, Section D Required Client Information, Valid Matrix Codes, MATRIX CODE, SAMPLE TYPE, DATE, TIME, DATE, TIME, SAMPLE TEMP AT COLLECTION, # OF CONTAINERS, Preservatives, Analysis Test, Requested Analysis Filtered (Y/N), Residual Chlorine (Y/N), pH = 6.48

Table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS

Signature and Date fields for Chad Russo, dated 3/30/2010, 1745.

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to less charges of 1.5% per month for any invoices not paid within 30 days.



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**

**Section B**

**Section C**

Requested Client Information: Company: GA Power Address: Atlanta, GA		Requested Project Information: Report To: SCS Contacts Copy To: Geosynlec Contacts					
Requested Date Data/TAI: 10 Day		Purchase Order No.: [blank]					
Project Name: Plant Hammond Hulkaker Semiannual [blank]		Reference: Kevin Henning					
Project Number: GWS6581B		Purchase Profile #: 2912-8					
<table border="0"> <tr> <td>REGULATORY AGENCY</td> <td> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER  <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> DRINKING WATER  <input type="checkbox"/> OTHER             </td> </tr> <tr> <td>Site Location STATE: GA</td> <td>                 Pace Grade                  Project Manager: Kevin Henning                  Phone Profile #: 2912-8             </td> </tr> </table>				REGULATORY AGENCY	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> OTHER	Site Location STATE: GA	Pace Grade Project Manager: Kevin Henning Phone Profile #: 2912-8
REGULATORY AGENCY	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> OTHER						
Site Location STATE: GA	Pace Grade Project Manager: Kevin Henning Phone Profile #: 2912-8						

ITEM #	Section D Requested Client Information <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.											
				DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other			Chloride, Fluoride, Sulfate	TDS	Metals 6010/6020*								
1	<del>AW-18</del>	<del>WT G</del>	<del>G</del>	<del>3/30/20</del>	<del>14:51</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
2	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
3	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
4	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
5	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
6	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
7	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
8	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
9	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
10	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
11	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>
12	<del>---</del>	<del>WT G</del>	<del>G</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>---</del>

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
[Signature]	3/30/20	1903	[Signature]	3/30/20	1903				
Melvin Mphwan Geographic	3/31/20	1135	Melvin Mphwan Geographic	3/31/20	1135				
Kevin Henning	3/31	1530	Kevin Henning	3/31/20	1530	4.3	Y	N	Y

SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER: <b>Haron Reader</b>	DATE Signed (MM/DD/YYYY): <b>03/30/2020</b>
SIGNATURE OF SAMPLER: [Signature]		

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 30 days.



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

<b>Section A</b> Required Client Information		<b>Section B</b> Requester Project Information		<b>Section C</b> Invoice Information	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosynthetic Contacts	Company Name:	
Phone:		Purchase Order No.:		Address:	
Requested Due Date (A/T):	10 Day	Project Name:	Panfil Hammond Hurdick Semitennial	Post Office:	
		Project Number:	GWS58119	Post Project Manager:	Kevin Herring
				Post Office #:	2912-8

<b>REGULATORY AGENCY</b>	
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA
<input type="checkbox"/> DRINKING WATER	<input type="checkbox"/> OTHER
Site Location:	STATE: GA

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	pH
					DATE	TIME					DATE	TIME		
1	GWC-6	DRINKING WATER WATER WASTE WATER PRODUCT SOLID WASTE AIR OTHER TISSUE	G	G	3/31	1230	17	3	2	1	X	X	X	N
2	GWC-5		G	G	3/31	1350	15	3	2	1	X	X	X	N
3			G	G				3	2	1	X	X	X	N
4			G	G				3	2	1	X	X	X	N
5			G	G				3	2	1	X	X	X	N
6			G	G				3	2	1	X	X	X	N
7			G	G				3	2	1	X	X	X	N
8			G	G				3	2	1	X	X	X	N
9			G	G				3	2	1	X	X	X	N
10			G	G				3	2	1	X	X	X	N
11			G	G				3	2	1	X	X	X	N
12			G	G				3	2	1	X	X	X	N

<b>ADDITIONAL COMMENTS</b>	<b>REINFORCED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>ACCEPTED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>SAMPLE CONDITIONS</b>
Please note dry wells, strike through any wells not sampled, and note when the USA samples for the event has been taken.	Chad Rucker / SCS	3/31/20	1650	Chad Rucker / SCS	3/31/20	1650	Temp in °C: 23.8
Notes: Sh. As. Ba. Bi. B. Cd. Cr. Co. Cu. Pb. Ni. Se. Ag. Tl. V. Zn	Mollis Johnson / Geosynthetic	3/31/20	1845	Mollis Johnson / Geosynthetic	3/31/20	1845	Received on Ice (Y/N): Y
	Chad Rucker / Pace	4/1/20	1030	Chad Rucker / Pace	4/1/20	1030	Custody Sealed Cooler (Y/N): N
	Chad Rucker / Pace	4/1/20	1030	Chad Rucker / Pace	4/1/20	1030	Samples Intact (Y/N): Y

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 30 days.  
F-ALL-Q-020rev.07 - 15-Feb-2007





CHAIN-OF-CUSTODY / Analytical Request Document

**Section A** Required Client Information: Company: GA Power, Address: Atlanta, GA, Email To: SCS Contacts, Phone: [blank], Requested Date/TIME: 10 Day

**Section B** Required Project Information: Report To: SCS Contacts, Copy To: Geosyntec Contacts, Purchase Order No.: [blank], Project Name: Plant Hammond Huffaker Semianual [blank], Project Number: GW6581B

**Section C** Invoice Information: Attention: Southern Co., Company Name: [blank], Address: [blank], Reference: Plant Project: Kevin Herring, Price Profile #: 2912-8

**REGULATORY AGENCY:** NPDES  GROUND WATER  DRINKING WATER  UST  RCRA  OTHER  STATE: GA

ITEM #	Section D Required Client Information	Valid Matrix Codes DW, WT, WW, P, SL, CL, WP, AR, OT, TS	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives						Analysis Test		Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH =	
			MATRIX CODE	SAMPLE TYPE								H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Chloride, Fluoride, Sulfate				TDS
1	6VC-19		WT	G	3/31/20	0752			3	2	1							X	X	X			pH = 7.62
2	6VC-20		WT	G	3/31/20	1048			3	2	1							X	X	X			pH = 7.57
3	6VC-21		WT	G	3/31/20	1518			3	2	1							X	X	X			pH = 6.33
4	6VC-22		WT	G	3/31/20	1233			3	2	1							X	X	X			pH = 7.80
5			WT	G					3	2	1							X	X	X			pH =
6			WT	G					3	2	1							X	X	X			pH =
7			WT	G					3	2	1							X	X	X			pH =
8			WT	G					3	2	1							X	X	X			pH =
9			WT	G					3	2	1							X	X	X			pH =
10			WT	G					3	2	1							X	X	X			pH =
11			WT	G					3	2	1							X	X	X			pH =
12			WT	G					3	2	1							X	X	X			pH =

**ADDITIONAL COMMENTS:** Please note dry wells, stake through any wells not sampled, and note when the last sample for the event has been taken.

**RELINQUISHED BY / AFFILIATION:** [Signature] 3/31/20

**ACCEPTED BY / AFFILIATION:** [Signature] 3/31/20

**SAMPLER NAME AND SIGNATURE:** Yaron Reeder

**PRINT Name of SAMPLER:** Yaron Reeder

**SIGNATURE of SAMPLER:** [Signature]

**DATE Signed (MM/DD/YYYY):** 3/31/20

**Temp in °C:** 2.8

**Received on Ice (Y/N):** Y

**Custody Sealed Cooler (Y/N):** N

**Samples Intact (Y/N):** Y

June 30, 2020

Joju Abraham  
Georgia Power-CCR  
2480 Maner Road  
Atlanta, GA 30339

RE: Project: HUFFAKER SEMIANNUAL RESAMPLING  
Pace Project No.: 92482800

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between June 19, 2020 and June 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Kevin Herring  
kevin.herring@pacelabs.com  
1(704)875-9092  
HORIZON Database Administrator

Enclosures

cc: Kristen Jurinko  
Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Ms. Lauren Petty, Southern Co. Services



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: HUFFAKER SEMIANNUAL RESAMPLING  
Pace Project No.: 92482800

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### **Pace Analytical Services Charlotte**

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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### **Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092  
Florida DOH Certification #: E87315  
Georgia DW Inorganics Certification #: 812  
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381  
South Carolina Certification #: 98011001  
Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92482800001	GWC-6	Water	06/18/20 17:35	06/19/20 13:10
92482800002	GWC-10	Water	06/19/20 14:00	06/22/20 10:45
92482800003	GWC-7	Water	06/19/20 10:52	06/22/20 10:45
92482800004	GWC-19	Water	06/19/20 14:23	06/22/20 10:45
92482800005	GWC-20	Water	06/19/20 12:50	06/22/20 10:45
92482800006	GWC-8	Water	06/19/20 11:45	06/22/20 10:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92482800001	GWC-6	EPA 6020B	CW1	1
92482800003	GWC-7	EPA 300.0 Rev 2.1 1993	CDC	1
92482800004	GWC-19	EPA 6010D	DRB	1
92482800005	GWC-20	EPA 6010D	DRB	1
		EPA 6020B	CW1	1
92482800006	GWC-8	EPA 6020B	CW1	1

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92482800001</b>	<b>GWC-6</b>					
EPA 6020B	pH	6.96	Std. Units		06/25/20 12:28	
	Boron	0.045J	mg/L	0.10	06/23/20 13:27	
<b>92482800002</b>	<b>GWC-10</b>					
	pH	7.4	Std. Units		06/25/20 12:28	
<b>92482800003</b>	<b>GWC-7</b>					
EPA 300.0 Rev 2.1 1993	pH	6.45	Std. Units		06/25/20 12:28	
	Chloride	1.4	mg/L	1.0	06/26/20 02:42	
<b>92482800004</b>	<b>GWC-19</b>					
EPA 6010D	pH	7.61	Std. Units		06/25/20 12:28	
	Calcium	41.3	mg/L	1.0	06/29/20 16:29	M1
<b>92482800005</b>	<b>GWC-20</b>					
EPA 6010D	pH	7.31	Std. Units		06/25/20 12:28	
EPA 6010D	Calcium	61.4	mg/L	1.0	06/29/20 16:46	
EPA 6020B	Barium	0.14	mg/L	0.010	06/25/20 16:41	
<b>92482800006</b>	<b>GWC-8</b>					
EPA 6020B	pH	6.81	Std. Units		06/25/20 12:28	
	Boron	0.086J	mg/L	0.10	06/25/20 16:12	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: GWC-6</b>									
<b>Lab ID: 92482800001</b>									
Collected: 06/18/20 17:35    Received: 06/19/20 13:10    Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	<b>6.96</b>	Std. Units			1		06/25/20 12:28		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>0.045J</b>	mg/L	0.10	0.0049	1	06/22/20 17:17	06/23/20 13:27	7440-42-8	

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### ANALYTICAL RESULTS

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

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**Sample: GWC-10**      **Lab ID: 92482800002**      Collected: 06/19/20 14:00      Received: 06/22/20 10:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	-----	----	----------	----------	---------	------

**Field Data**

Analytical Method:  
Pace Analytical Services - Charlotte

pH	7.4	Std. Units			1		06/25/20 12:28		
----	-----	------------	--	--	---	--	----------------	--	--

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: GWC-7      Lab ID: 92482800003      Collected: 06/19/20 10:52      Received: 06/22/20 10:45      Matrix: Water</b>									
<b>Field Data</b>	Analytical Method: Pace Analytical Services - Charlotte								
pH	<b>6.45</b>	Std. Units			1		06/25/20 12:28		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	<b>1.4</b>	mg/L	1.0	0.60	1		06/26/20 02:42	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

**Sample: GWC-19**      **Lab ID: 92482800004**      Collected: 06/19/20 14:23      Received: 06/22/20 10:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	<b>7.61</b>	Std. Units			1		06/25/20 12:28		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>41.3</b>	mg/L	1.0	0.14	1	06/29/20 12:40	06/29/20 16:29	7440-70-2	M1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

Sample: <b>GWC-20</b>		Lab ID: <b>92482800005</b>		Collected: 06/19/20 12:50	Received: 06/22/20 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	<b>7.31</b>	Std. Units			1		06/25/20 12:28		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>61.4</b>	mg/L	1.0	0.14	1	06/29/20 12:40	06/29/20 16:46	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Barium	<b>0.14</b>	mg/L	0.010	0.00049	1	06/24/20 13:30	06/25/20 16:41	7440-39-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: GWC-8</b>									
<b>Lab ID: 92482800006</b>									
Collected: 06/19/20 11:45    Received: 06/22/20 10:45    Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
pH	<b>6.81</b>	Std. Units			1		06/25/20 12:28		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>0.086J</b>	mg/L	0.10	0.0049	1	06/24/20 13:30	06/25/20 16:12	7440-42-8	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

QC Batch: 550184	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92482800004, 92482800005

METHOD BLANK: 2925536 Matrix: Water

Associated Lab Samples: 92482800004, 92482800005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	06/29/20 16:20	

LABORATORY CONTROL SAMPLE: 2925537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2925538 2925539

Parameter	Units	2925538		2925539		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92482800004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	41.3	1	1	41.9	41.8	60	49	75-125	0	20 M1

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

QC Batch: 548895

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92482800001

METHOD BLANK: 2919709

Matrix: Water

Associated Lab Samples: 92482800001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.0049	06/23/20 13:04	

LABORATORY CONTROL SAMPLE: 2919710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2919711 2919712

Parameter	Units	2919711		2919712		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	0.045J	1	1	1.0	0.98	95	94	75-125	2	20

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HUFFAKER SEMIANNUAL RESAMPLING  
Pace Project No.: 92482800

QC Batch: 549351 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92482800005, 92482800006

METHOD BLANK: 2921563 Matrix: Water  
Associated Lab Samples: 92482800005, 92482800006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	ND	0.010	0.00049	06/25/20 16:01	
Boron	mg/L	ND	0.10	0.0049	06/25/20 16:01	

LABORATORY CONTROL SAMPLE: 2921564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2921565 2921566

Parameter	Units	92482800006		2921566		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Barium	mg/L	0.21	0.1	0.30	0.29	95	80	75-125	5	20	
Boron	mg/L	0.086J	1	0.96	0.96	87	87	75-125	0	20	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HUFFAKER SEMIANNUAL RESAMPLING  
Pace Project No.: 92482800

QC Batch: 549586 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92482800003

METHOD BLANK: 2922599 Matrix: Water  
Associated Lab Samples: 92482800003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/25/20 23:34	

LABORATORY CONTROL SAMPLE: 2922600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2922601 2922602

Parameter	Units	92483177002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Chloride	mg/L	3.9	50	50	55.0	54.3	102	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2922603 2922604

Parameter	Units	92483187001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Chloride	mg/L	15.7	50	50	67.7	65.2	104	99	90-110	4	10		

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: HUFFAKER SEMIANNUAL RESAMPLING

Pace Project No.: 92482800

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92482800001	GWC-6				
92482800002	GWC-10				
92482800003	GWC-7				
92482800004	GWC-19				
92482800005	GWC-20				
92482800006	GWC-8				
92482800004	GWC-19	EPA 3010A	550184	EPA 6010D	550253
92482800005	GWC-20	EPA 3010A	550184	EPA 6010D	550253
92482800001	GWC-6	EPA 3005A	548895	EPA 6020B	548915
92482800005	GWC-20	EPA 3005A	549351	EPA 6020B	549398
92482800006	GWC-8	EPA 3005A	549351	EPA 6020B	549398
92482800003	GWC-7	EPA 300.0 Rev 2.1 1993	549586		

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**W0# : 92482800**

PM: KLH1 Due Date: 06/26/20  
 CLIENT: GA-GA Power

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	GA Power	Report to:	SCS Contacts	Attention:	Southern Co.
Address	Atlanta, GA	Copy to:	Geosynlec Contacts	Company Name	
Email To:	SCS Contacts	Purchase Order No.:		Address	
Phone	Fax	Project Name	Huffaker Semiannual Resampling	Page Quote Reference:	
Requested Due Date/TAT:	5 Day	Project Number	GW65818	Project Manager:	Kevin Herring
				Page Profile #:	
REGULATORY AGENCY			Requested Analysis Filtered (Y/N)		
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Site Location STATE: GA					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATERIAL CODE DOMESTIC WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID OL OIL WIRE WP AIR WT OTHER OT TSSIDE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives		Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	SAMPLE CONDITIONS
					DATE	TIME			DATE	TIME	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>		
1	GW-C-7		WT G	6/19/20	1400		18	0						
2	GW-C-10		WT G	6/19/20	1400		18	0						
3	GW-C-19		WT G					1			X			
4	GW-C-20		WT G					1			X			
5			WT G					1			X			
6														
7														
8														
9														
10														
11														
12														

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Chad Russo	6/19/20	1455	Kevin Herring	6/19/20	1455
Relinquished by: <i>[Signature]</i>	6/22/20	1045	Accepted by: <i>[Signature]</i>	6/22/20	1045
Relinquished by: <i>[Signature]</i>	6/22/20	1353	Accepted by: <i>[Signature]</i>	6/22/20	1353

Additional Comments: Please note dry wells, strike through any wells not sampled, and note when the last sample for the event has been taken.

Temp in °C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

PRINT Name of SAMPLER: Chad Russo

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): 6/19/2020

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020Rev. 07. 15-Feb-2007



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**W0# : 92482800**

PM: KLH1 Due Date: 06/26/20  
 CLIENT: GA-GA Power

Section A Required Client Information  
 Company: GA Power  
 Address: Atlanta, GA

Section B Required Project Information  
 Report To: SCS Contacts  
 Copy To: Geosynthetic Contacts  
 Email To: SCS Contacts  
 Purchase Order No.:  
 Project Name: Hufferaker Semiannual Resampling  
 Project Number: GW6581B  
 Requested Due Date/TAT: 5 Day

Section C Invoice Information  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 PACE Quote Reference:  
 PACE Project Manager: Kevin Herring  
 PACE Profile #:

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER ORA-  
 Site Location: GA  
 STATE:

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> (A-Z, 0-9, ., -) SAMPLE IDS MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DM DW WT WW P SL V W AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Analysis Test Barium Calcium Chloride pH	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)									
			DATE	TIME							DATE	TIME							
1	GW-C-7					1													
2	GW-C-10					1													
3	GW-C-19					1													
4	GW-C-20					1													
5	GW-C-8					1													
6																			
7																			
8																			
9																			
10																			
11																			
12																			

REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Shawn Lin	6/19/20	1510	Shawn Lin	6/19/20	1510
Lead Maint., GSA	6/19/20	1745	Media Monitor/Leavick	6/19/20	1745
Media Monitor/Leavick	6/22/20	1045	Shawn Lin	6/22/20	1045
Shawn Lin	6/23/20	1853	Shawn Lin	6/22/20	1353

ADDITIONAL COMMENTS  
 Please note dry wells, strike through any wells not sampled, and note when the last sample for the event has been taken.

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Shawn Lin  
 SIGNATURE of SAMPLER: *Shawn Lin*  
 DATE Signed (MM/DD/YYYY): 6/19/2020

Temp in °C: \_\_\_\_\_  
 Received on ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the changes of 1.5% per month for any invoices not paid within 30 days.  
 F-ALL-Q-020rev.07, 15-Feb-2007

# Data Validation Reports

## Memorandum

Date: August 11, 2020  
To: Whitney Law  
From: Kristoffer Henderson  
CC: J. Caprio  
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 2630525**

### **SITE: Plant Hammond-Huffaker Road Landfill**

#### **INTRODUCTION**

This report summarizes the findings of the Stage 2A data validation of seventeen aqueous samples, one field duplicate sample, one equipment blank and one field blank, collected 26-31 April 2020, as part of the Plant Hammond-Huffaker Road Landfill on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Peachtree Corners, Georgia, for the following analytical tests:

- Metals by United States Environmental Protection Agency (USEPA) Methods 3010A/6010D and 3005A/6020B
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services, LLC, Asheville, North Carolina, for the following analytical test:

- Anions by USEPA Method 300.0

#### **EXECUTIVE SUMMARY**

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for meeting project objectives. The qualified data should be used within the limitations of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory report, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001);

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
2630525001	GWA-2
2630525002	GWA-1
2630525003	GWC-23
2630525004	FB-05
2630525005	GWA-4
2630525006	GWA-3
2630525007	GWA-11
2630525008	GWC-9
2630525009	GWC-8
2630525010	GWC-10

Laboratory ID	Client ID
2630525011	FD-05
2630525012	GWC-7
2630525013	EB-01
2630525014	GWC-18
2630525015	GWC-6
2630525016	GWC-5
2630525017	GWC-19
2630525018	GWC-20
2630525019	GWC-21
2630525020	GWC-22

The samples were received within 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC) forms:

- EB-01 was listed as EB-05 on the COC. The ID was changed per the client's request.
- The year was missing from the collection times for the samples listed on pages 1, 3, 5 and 7 of the COC. The samples were logged in with the collection year of 2020.
- A collection time was not listed on the COC for the field duplicate. The field duplicate was logged in with the collection time of 00:00.

The field pH data included in the laboratory report were not validated.

## 1.0 METALS

The samples were analyzed for metals by USEPA methods 3005A/6020B and 3010A/6010D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time



- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

### 1.1 Overall Assessment

The metals data reported in this data package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this sample set is 100%.

### 1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

### 1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven method blanks were reported (batches 45185, 45190, 45218, 45184, 45189, 45226 and 45956). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exceptions.

Arsenic and vanadium were detected in the method blanks in batches 45189, 45226 and 45956 at estimated concentrations greater than the MDLs and reporting limit (RLs). Since vanadium was not detected in the associated samples, no qualifications were applied to the vanadium data. However, the estimated arsenic concentrations in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
EB-01	Arsenic	0.00036	J B	0.0050	U	3
GWC-18	Arsenic	0.00073	J B	0.0050	U	3
GWC-21	Arsenic	0.00035	J B	0.0050	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

B-laboratory flag indicating analyte was detected in both the method blank and sample

\* Validation qualifiers are defined in Attachment 1 at the end of this report

\*\*Reason codes are defined in Attachment 2 at the end of this report

#### 1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample GWC-23. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

Six batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this sample set and qualifications were not applied to the data.

#### 1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

#### 1.6 Equipment Blank

One equipment blank was collected with the sample set, EB-01. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Arsenic and boron were detected in EB-01 at estimated concentrations greater than the MDLs and less than the RLs. Since the arsenic concentration in EB-01 was U qualified due to method blank contamination, no additional qualifications were applied to the data. However, the estimated boron concentrations in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
GWA-2	Boron	0.092	J	0.10	U	3
GWA-1	Boron	0.022	J	0.10	U	3
GWC-23	Boron	0.042	J	0.10	U	3
GWA-4	Boron	0.086	J	0.10	U	3
GWA-11	Boron	0.041	J	0.10	U	3
GWC-9	Boron	0.018	J	0.10	U	3
GWC-8	Boron	0.056	J	0.10	U	3
GWC-10	Boron	0.040	J	0.10	U	3
FD-05	Boron	0.039	J	0.10	U	3
GWC-7	Boron	0.049	J	0.10	U	3
GWC-6	Boron	0.091	J	0.10	U	3
GWC-5	Boron	0.057	J	0.10	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
GWC-20	Boron	0.024	J	0.10	U	3
GWC-21	Boron	0.022	J	0.10	U	3
GWC-22	Boron	0.067	J	0.10	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

### 1.7 Field Blank

One field blank was collected with the sample set, FB-05. Metals were not detected in the field blank above the MDLs, with the following exceptions.

Chromium was detected in FB-05 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated chromium concentrations in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
GWA-2	Chromium	0.00043	J	0.010	U	3
GWA-4	Chromium	0.0013	J	0.010	U	3
GWA-3	Chromium	0.00062	J	0.010	U	3
FD-05	Chromium	0.00056	J	0.010	U	3
GWC-7	Chromium	0.00041	J	0.010	U	3
GWC-18	Chromium	0.00071	J	0.010	U	3
GWC-6	Chromium	0.00085	J	0.010	U	3
GWC-19	Chromium	0.00042	J	0.010	U	3
GWC-21	Chromium	0.00093	J	0.010	U	3
GWC-22	Chromium	0.0015	J	0.010	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

### 1.8 Field Duplicate

One field duplicate, FD-05, was collected with the sample set. Acceptable precision ( $RPD \leq 20\%$  or the difference  $< RL$ ) was demonstrated between the field duplicate and the original sample, GWC-10.

### 1.9 Sensitivity

The samples were reported to the MDLs. Elevated nondetect results were not reported.

### **1.10 Electronic Data Deliverable (EDD) Review**

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory flag B used in the level II report was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

## **2.0 WET CHEMISTRY**

The samples were analyzed for anions (chloride, fluoride and sulfate) by USEPA method 300.0 and TDS by Standard Method 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

### **2.1 Overall Assessment**

The wet chemistry data reported in this data package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this sample set is 100%.

### **2.2 Holding Times**

The holding times for the chloride, fluoride and sulfate analyses of a water sample are 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

### **2.3 Method Blank**

Six method blanks were reported for the anions (batches 533972, 533983, 533985, 534237, 534273 and 534464). The anions were not detected in the method blanks above the MDLs.

### **2.4 Matrix Spike/Matrix Spike Duplicate**

One sample set specific MS/MSD pair was reported for the anions using sample GWC-10. The recovery and RPD results were within the laboratory specified acceptance criteria.

Eleven batch MS/MSD pairs were also reported for the anions. Since these were batch QC, the results do not affect the samples in this sample set and qualifications were not applied to the data.

### **2.5 Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported for the anions and TDS. The recovery results were within the laboratory specified acceptance criteria.

### **2.6 Laboratory Duplicate**

Two sample set specific laboratory duplicates were reported for TDS, using samples GWC-23 and GWC-20. The RPD results were within the laboratory specified acceptance criteria.

Five batch laboratory duplicates were also reported for TDS. Since these were batch QC, the results do not affect the samples in sample set and qualifications were not applied to the data.

### **2.7 Equipment Blank**

One equipment blank was collected with the sample set, EB-01. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

### **2.8 Field Blank**

One field blank was collected with the sample set, FB-05. The wet chemistry parameters were not detected in the field blank above the MDLs.

### **2.9 Field Duplicate**

One field duplicate, FD-05, was collected with the sample set. Acceptable precision ( $RPD \leq 20\%$  or the difference  $< RL$ ) was demonstrated between the field duplicate and the original sample, GWC-10.

## **2.10 Sensitivity**

The samples were reported to the MDLs. No elevated nondetect results were reported.

## **2.11 Electronic Data Deliverable Review**

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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\* \* \* \* \*



**ATTACHMENT 1**  
**DATA VALIDATION QUALIFIER DEFINITIONS**  
**AND INTERPRETATION KEY**  
**Assigned by Geosyntec's Data Validation Team**

**DATA QUALIFIER DEFINITIONS**

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**ATTACHMENT 2**  
**DATA VALIDATION REASON CODES**  
**Assigned by Geosyntec's Data Validation Team**

<b>Valid Value</b>	<b>Description</b>
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

## Memorandum

Date: August 11, 2020  
To: Whitney Law  
From: Kristoffer Henderson  
CC: J. Caprio  
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92482800**

### **SITE: Plant Hammond-Huffaker Road Landfill**

#### **INTRODUCTION**

This report summarizes the findings of the Stage 2A data validation of six aqueous samples collected 18-19 June 2020, as part of the Plant Hammond-Huffaker Road Landfill on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States Environmental Protection Agency (USEPA) Methods 3010A/6020B
- Barium and Boron by USEPA Methods 3005A/6020B

The samples were analyzed at Pace Analytical Services, LLC, Asheville, North Carolina, for the following analytical test:

- Chloride by USEPA Method 300.0

#### **EXECUTIVE SUMMARY**

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory report, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001);

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
92482800001	GWC-6
92482800002	GWC-10
92482800003	GWC-7

Laboratory ID	Client ID
92482800004	GWC-19
92482800005	GWC-20
92482800006	GWC-8

The samples were received within 0-6°C. No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

## 1.0 METALS

The samples were analyzed for calcium by USEPA methods 3010A/6010D and barium and boron 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

### 1.1 Overall Assessment

The metals data reported in this data package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this sample set is 100%.

## **1.2 Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

## **1.3 Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 550184, 548895 and 549351). Metals were not detected in the method blanks above the method detection limits (MDLs).

## **1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported using samples GWC-6, GWC-19 and GWC-8. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of calcium in the MS/MSD pair using sample GWC-19 were low and outside the laboratory specified acceptance criteria. Since the calcium concentration in sample GWC-19 was greater than four times the spiked concentration, no qualifications were applied to the data.

## **1.5 Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

## **1.6 Equipment Blank**

An equipment blank was not collected with the sample set.

## **1.7 Field Blank**

A field blank was not collected with the sample set.

## **1.8 Field Duplicate**

A field duplicate was not collected with the sample set.

## **1.9 Sensitivity**

The samples were reported to the MDLs. Elevated nondetect results were not reported.

### **1.10 Electronic Data Deliverable (EDD) Review**

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory flag M1 used in the level II report was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

## **2.0 CHLORIDE**

The samples were analyzed for chloride by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

### **2.1 Overall Assessment**

The chloride data reported in this data package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this sample set is 100%.

### **2.2 Holding Times**

The holding times for the chloride analyses of a water sample are 28 days from sample collection to analysis. The holding times were met for the sample analyses.



### **2.3 Method Blank**

One method blank was reported (batch 549586). Chloride was not detected in the method blank above the MDL.

### **2.4 Matrix Spike/Matrix Spike Duplicate**

Two batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in this sample set and qualifications were not applied to the data.

### **2.5 Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

### **2.6 Equipment Blank**

An equipment blank was not collected with the sample set.

### **2.7 Field Blank**

A field blank was not collected with the sample set.

### **2.8 Field Duplicate**

A field duplicate was not collected with the sample set.

### **2.9 Sensitivity**

The samples were reported to the MDLs. No elevated nondetect results were reported.

### **2.10 Electronic Data Deliverable Review**

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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\* \* \* \* \*

**ATTACHMENT 1**  
**DATA VALIDATION QUALIFIER DEFINITIONS**  
**AND INTERPRETATION KEY**  
**Assigned by Geosyntec's Data Validation Team**

**DATA QUALIFIER DEFINITIONS**

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**ATTACHMENT 2**  
**DATA VALIDATION REASON CODES**  
**Assigned by Geosyntec's Data Validation Team**

<b>Valid Value</b>	<b>Description</b>
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

APPENDIX D2  
Field Data Sheets

# Low-Flow Test Report:

Test Date / Time: 3/26/2020 12:06:38 PM

Project: Plant Hammond

Operator Name: Chad Russo

<b>Location Name: GWA-1</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 30 ft</b> <b>Total Depth: 39.83 ft</b> <b>Initial Depth to Water: 10.01 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly ethylene</b> <b>Pump Intake From TOC: 35 ft</b> <b>Estimated Total Volume Pumped: 12 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.51 ft</b>	<b>Instrument Used: SmarTROLL MP</b> <b>Serial Number: 364452</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/26/2020 12:06 PM	00:00	7.14 pH	15.89 °C	145.27 µS/cm	5.39 mg/L		134.1 mV	10.01 ft	200.00 ml/min
3/26/2020 12:11 PM	05:00	7.16 pH	15.86 °C	145.21 µS/cm	5.49 mg/L	1.27 NTU	50.8 mV	10.38 ft	200.00 ml/min
3/26/2020 12:16 PM	10:00	7.15 pH	15.84 °C	145.34 µS/cm	5.28 mg/L	1.13 NTU	40.9 mV	10.40 ft	200.00 ml/min
3/26/2020 12:21 PM	15:00	7.06 pH	15.98 °C	144.25 µS/cm	3.80 mg/L	1.13 NTU	-2.5 mV	10.42 ft	200.00 ml/min
3/26/2020 12:26 PM	20:00	7.07 pH	15.98 °C	144.59 µS/cm	3.72 mg/L	1.21 NTU	-2.8 mV	10.44 ft	200.00 ml/min
3/26/2020 12:31 PM	25:00	7.06 pH	16.07 °C	145.11 µS/cm	2.95 mg/L	1.40 NTU	-13.5 mV	10.45 ft	200.00 ml/min
3/26/2020 12:36 PM	30:00	7.06 pH	16.02 °C	144.97 µS/cm	2.67 mg/L	0.85 NTU	-22.8 mV	10.47 ft	200.00 ml/min
3/26/2020 12:41 PM	35:00	7.06 pH	16.16 °C	143.38 µS/cm	2.39 mg/L	0.67 NTU	-29.1 mV	10.47 ft	200.00 ml/min
3/26/2020 12:46 PM	40:00	7.05 pH	16.20 °C	141.80 µS/cm	2.15 mg/L	0.62 NTU	-31.0 mV	10.48 ft	200.00 ml/min
3/26/2020 12:51 PM	45:00	7.04 pH	16.23 °C	141.44 µS/cm	1.85 mg/L	1.29 NTU	-38.3 mV	10.50 ft	200.00 ml/min
3/26/2020 12:56 PM	50:00	7.04 pH	16.26 °C	139.47 µS/cm	1.76 mg/L	0.65 NTU	-37.7 mV	10.51 ft	200.00 ml/min
3/26/2020 1:01 PM	55:00	7.02 pH	16.32 °C	136.35 µS/cm	1.79 mg/L	0.91 NTU	-41.5 mV	10.52 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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GWA-1	Grab
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Created using VuSitu from In-Situ, Inc.



# Low-Flow Test Report:

**Test Date / Time:** 3/26/2020 10:20:40 AM

**Project:** Plant Hammond

**Operator Name:** Chad Russo

<b>Location Name: GWA-2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 16 ft</b> <b>Total Depth: 25.92 ft</b> <b>Initial Depth to Water: 4.65 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly ethylene</b> <b>Pump Intake From TOC: 20 ft</b> <b>Estimated Total Volume Pumped: 4 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.37 ft</b>	<b>Instrument Used: SmarTROLL MP</b> <b>Serial Number: 364452</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/26/2020 10:20 AM	00:00	7.04 pH	14.45 °C	389.66 µS/cm	0.24 mg/L		-59.5 mV		200.00 ml/min
3/26/2020 10:25 AM	05:00	7.06 pH	14.68 °C	389.67 µS/cm	0.20 mg/L	2.27 NTU	-46.8 mV	5.01 ft	200.00 ml/min
3/26/2020 10:30 AM	10:00	7.07 pH	14.81 °C	389.41 µS/cm	0.16 mg/L	2.95 NTU	-48.0 mV	5.01 ft	200.00 ml/min
3/26/2020 10:35 AM	15:00	7.07 pH	14.99 °C	389.34 µS/cm	0.14 mg/L	0.43 NTU	-46.7 mV	5.02 ft	200.00 ml/min

## Samples

Sample ID:	Description:
GWA-2	Grab

Product Name: Low-Flow System

Date: 2020-03-26 12:23:49

Project Information:

Operator Name Aaron Reeder  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 18 ft

Pump placement from TOC ft

Well Information:

Well ID GWA-3  
Well diameter 2 in  
Well Total Depth 21.45 ft  
Screen Length 10 ft  
Depth to Water 3.95 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1703416 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 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			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:06:45	300.05	17.45	6.98	757.88	4.65	4.35	0.58	29.52
Last 5	12:11:45	600.03	16.69	6.96	769.42	5.59	4.31	0.25	22.59
Last 5	12:16:45	900.03	16.79	6.93	760.25	4.49	4.31	0.14	20.01
Last 5	12:21:45	1200.03	16.86	6.87	748.01	4.81	4.30	0.13	19.17
Last 5									
Variance 0			-0.76	-0.02	11.54			-0.33	-6.93
Variance 1			0.10	-0.04	-9.17			-0.11	-2.59
Variance 2			0.07	-0.06	-12.23			-0.01	-0.84

Notes

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B).

Grab Samples

GWA-3  
Grab

Product Name: Low-Flow System

Date: 2020-03-26 11:16:33

Project Information:

Operator Name Aaron Reeder  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 18 ft

Pump placement from TOC ft

Well Information:

Well ID GWA-4  
Well diameter 2 in  
Well Total Depth 21.51 ft  
Screen Length 10 ft  
Depth to Water 7.95 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1703416 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 10 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		+/- 10%	+/- 10
Last 5	10:53:33	1800.03	14.80	6.83	760.55	0.73	8.27	0.57	63.75
Last 5	10:58:33	2100.03	14.85	6.78	757.91	0.49	8.30	0.50	53.46
Last 5	11:03:33	2400.03	14.90	6.78	755.43	1.06	8.31	0.49	43.22
Last 5	11:08:33	2700.04	14.99	6.76	756.30	0.35	8.31	0.44	33.80
Last 5	11:13:33	3000.04	15.05	6.74	752.74	0.56	8.32	0.42	27.65
Variance 0			0.05	-0.00	-2.47			-0.02	-10.24
Variance 1			0.09	-0.02	0.86			-0.04	-9.43
Variance 2			0.06	-0.02	-3.56			-0.02	-6.15

Notes

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B).

Grab Samples

GWA-4  
Grab

Product Name: Low-Flow System

Date: 2020-03-26 15:48:19

Project Information:

Operator Name Aaron Reeder  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 34 ft

Pump placement from TOC ft

Well Information:

Well ID GWA-11  
Well diameter 2 in  
Well Total Depth 36.21 ft  
Screen Length 10 ft  
Depth to Water 15.26 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2417564 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 16.25 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		+/- 10%	+/- 10
Last 5	15:25:28	3300.04	17.50	6.86	199.31	12.80	15.71	0.91	-35.19
Last 5	15:30:28	3600.04	17.62	6.86	198.56	13.40	15.71	0.81	-36.24
Last 5	15:35:28	3900.04	17.54	6.84	199.36	11.48	15.71	0.63	-37.41
Last 5	15:40:28	4200.04	17.54	6.85	199.61	10.92	15.71	0.64	-37.78
Last 5	15:45:28	4500.04	17.68	6.83	199.73	4.83	15.71	0.63	-38.22
Variance 0			-0.08	-0.02	0.81			-0.18	-1.17
Variance 1			0.00	0.01	0.25			0.01	-0.37
Variance 2			0.13	-0.01	0.11			-0.01	-0.44

Notes

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B).

Grab Samples

GWA-11  
Grab

# Low-Flow Test Report:

**Test Date / Time:** 3/31/2020 1:30:00 PM

**Project:** Plant Hammond

**Operator Name:** Chad Russo

<b>Location Name:</b> GWC-5 <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC <b>Screen Length:</b> 10 ft <b>Top of Screen:</b> 11.5 ft <b>Total Depth:</b> 21.54 ft <b>Initial Depth to Water:</b> 4.24 ft	<b>Pump Type:</b> Peristaltic <b>Tubing Type:</b> Poly ethylene <b>Pump Intake From TOC:</b> 16.5 ft <b>Estimated Total Volume Pumped:</b> 4 liter <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 200 ml/min <b>Final Draw Down:</b> 0.12 ft	<b>Instrument Used:</b> SmarTROLL MP <b>Serial Number:</b> 364452
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/31/2020 1:30 PM	00:00	6.83 pH	15.48 °C	607.01 µS/cm	0.26 mg/L		42.3 mV	4.24 ft	200.00 ml/min
3/31/2020 1:35 PM	05:00	6.82 pH	15.21 °C	606.64 µS/cm	0.17 mg/L	4.39 NTU	8.3 mV	4.36 ft	200.00 ml/min
3/31/2020 1:40 PM	10:00	6.82 pH	15.08 °C	607.25 µS/cm	0.14 mg/L	3.18 NTU	1.0 mV	4.36 ft	200.00 ml/min
3/31/2020 1:45 PM	15:00	6.82 pH	15.12 °C	604.63 µS/cm	0.12 mg/L	4.45 NTU	-7.4 mV	4.36 ft	200.00 ml/min

## Samples

Sample ID:	Description:
GWC-5	Grab

# Low-Flow Test Report:

**Test Date / Time:** 3/31/2020 11:33:06 AM

**Project:** Plant Hammond

**Operator Name:** Chad Russo

<b>Location Name: GWC-6</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33 ft</b> <b>Total Depth: 42.9 ft</b> <b>Initial Depth to Water: 14.50 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly ethylene</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 12 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.09 ft</b>	<b>Instrument Used: SmarTROLL MP</b> <b>Serial Number: 364452</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/31/2020 11:33 AM	00:00	7.38 pH	15.14 °C	490.55 µS/cm	5.43 mg/L		149.6 mV		200.00 ml/min
3/31/2020 11:38 AM	05:00	7.38 pH	16.03 °C	483.38 µS/cm	5.08 mg/L	4.58 NTU	39.8 mV	14.59 ft	200.00 ml/min
3/31/2020 11:43 AM	10:00	7.28 pH	16.11 °C	484.94 µS/cm	3.28 mg/L	4.83 NTU	-67.7 mV	14.59 ft	200.00 ml/min
3/31/2020 11:48 AM	15:00	7.22 pH	16.17 °C	487.12 µS/cm	1.83 mg/L	3.54 NTU	-82.2 mV	14.59 ft	200.00 ml/min
3/31/2020 11:53 AM	20:00	7.22 pH	16.56 °C	486.54 µS/cm	1.60 mg/L	3.68 NTU	-82.7 mV	14.59 ft	200.00 ml/min
3/31/2020 11:58 AM	25:00	7.22 pH	16.48 °C	486.39 µS/cm	1.38 mg/L	2.70 NTU	-83.0 mV	14.59 ft	200.00 ml/min
3/31/2020 12:03 PM	30:00	7.20 pH	16.42 °C	487.05 µS/cm	0.95 mg/L	2.37 NTU	-85.9 mV	14.59 ft	200.00 ml/min
3/31/2020 12:08 PM	35:00	7.21 pH	16.43 °C	487.93 µS/cm	0.92 mg/L	2.43 NTU	-85.0 mV	14.59 ft	200.00 ml/min
3/31/2020 12:13 PM	40:00	7.18 pH	16.56 °C	492.75 µS/cm	0.71 mg/L	2.40 NTU	-87.2 mV	14.59 ft	200.00 ml/min
3/31/2020 12:18 PM	45:00	7.18 pH	16.71 °C	494.17 µS/cm	0.56 mg/L	1.78 NTU	-87.9 mV	14.59 ft	200.00 ml/min
3/31/2020 12:23 PM	50:00	7.18 pH	16.83 °C	497.60 µS/cm	0.49 mg/L	2.76 NTU	-88.5 mV	14.59 ft	200.00 ml/min
3/31/2020 12:28 PM	55:00	7.17 pH	16.65 °C	500.20 µS/cm	0.49 mg/L	1.87 NTU	-87.4 mV	14.59 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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GWC-6

Grab

Created using VuSitu from In-Situ, Inc.



# Low-Flow Test Report:

Test Date / Time: 3/30/2020 1:00:17 PM

Project: Plant Hammond

Operator Name: Chad Russo

<b>Location Name: GWC-7</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 22 ft</b> <b>Total Depth: 32.12 ft</b> <b>Initial Depth to Water: 12.99 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly ethylene</b> <b>Pump Intake From TOC: 27 ft</b> <b>Estimated Total Volume Pumped: 28 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.31 ft</b>	<b>Instrument Used: SmarTROLL MP</b> <b>Serial Number: 364452</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/30/2020 1:00 PM	00:00	6.93 pH	17.51 °C	470.56 µS/cm	0.65 mg/L		-7.6 mV	12.99 ft	200.00 ml/min
3/30/2020 1:05 PM	05:00	6.90 pH	17.59 °C	466.33 µS/cm	0.56 mg/L	24.30 NTU	-18.9 mV	13.36 ft	200.00 ml/min
3/30/2020 1:10 PM	10:00	6.88 pH	17.37 °C	462.58 µS/cm	0.39 mg/L	16.80 NTU	-23.9 mV	13.36 ft	200.00 ml/min
3/30/2020 1:15 PM	15:00	6.84 pH	17.84 °C	457.42 µS/cm	0.26 mg/L	16.70 NTU	-28.8 mV	13.36 ft	200.00 ml/min
3/30/2020 1:20 PM	20:00	6.83 pH	17.99 °C	450.78 µS/cm	0.19 mg/L	11.90 NTU	-29.6 mV	13.36 ft	200.00 ml/min
3/30/2020 1:25 PM	25:00	6.79 pH	18.12 °C	447.65 µS/cm	0.15 mg/L	10.32 NTU	-32.8 mV	13.36 ft	200.00 ml/min
3/30/2020 1:30 PM	30:00	6.78 pH	17.95 °C	438.28 µS/cm	0.13 mg/L	11.79 NTU	-34.3 mV	13.36 ft	200.00 ml/min
3/30/2020 1:35 PM	35:00	6.76 pH	17.72 °C	436.23 µS/cm	0.12 mg/L	10.43 NTU	-34.5 mV	13.36 ft	200.00 ml/min
3/30/2020 1:40 PM	40:00	6.72 pH	17.81 °C	429.90 µS/cm	0.11 mg/L	7.80 NTU	-35.3 mV	13.36 ft	200.00 ml/min
3/30/2020 1:45 PM	45:00	6.70 pH	17.95 °C	425.27 µS/cm	0.29 mg/L	8.02 NTU	-36.4 mV	13.36 ft	200.00 ml/min
3/30/2020 1:50 PM	50:00	6.70 pH	17.75 °C	423.27 µS/cm	0.20 mg/L	8.26 NTU	-38.1 mV	13.36 ft	200.00 ml/min
3/30/2020 1:55 PM	55:00	6.67 pH	17.90 °C	417.57 µS/cm	0.14 mg/L	5.87 NTU	-37.9 mV	13.36 ft	200.00 ml/min
3/30/2020 2:00 PM	01:00:00	6.65 pH	17.99 °C	412.37 µS/cm	0.12 mg/L	4.72 NTU	-37.7 mV	13.36 ft	200.00 ml/min
3/30/2020 2:05 PM	01:05:00	6.64 pH	17.99 °C	410.22 µS/cm	0.11 mg/L	4.65 NTU	-37.6 mV	13.36 ft	200.00 ml/min
3/30/2020 2:10 PM	01:10:00	6.63 pH	17.95 °C	408.17 µS/cm	0.10 mg/L	4.72 NTU	-37.9 mV	13.36 ft	200.00 ml/min

3/30/2020 2:15 PM	01:15:00	6.59 pH	17.86 °C	400.13 µS/cm	0.08 mg/L	4.24 NTU	-35.6 mV	13.36 ft	200.00 ml/min
3/30/2020 2:20 PM	01:20:00	6.60 pH	17.99 °C	399.24 µS/cm	0.08 mg/L	3.82 NTU	-36.1 mV	13.36 ft	200.00 ml/min
3/30/2020 2:25 PM	01:25:00	6.59 pH	17.89 °C	398.84 µS/cm	0.08 mg/L	3.70 NTU	-35.9 mV	13.36 ft	200.00 ml/min
3/30/2020 2:30 PM	01:30:00	6.58 pH	17.98 °C	397.59 µS/cm	0.08 mg/L	3.81 NTU	-35.8 mV	13.36 ft	200.00 ml/min
3/30/2020 2:35 PM	01:35:00	6.54 pH	17.92 °C	391.87 µS/cm	0.27 mg/L	3.18 NTU	-32.3 mV	13.36 ft	200.00 ml/min
3/30/2020 2:40 PM	01:40:00	6.55 pH	17.94 °C	391.34 µS/cm	0.18 mg/L	3.52 NTU	-33.0 mV	13.36 ft	200.00 ml/min
3/30/2020 2:45 PM	01:45:00	6.54 pH	18.02 °C	391.84 µS/cm	0.12 mg/L	3.52 NTU	-33.2 mV	13.36 ft	200.00 ml/min
3/30/2020 2:50 PM	01:50:00	6.52 pH	18.00 °C	388.81 µS/cm	0.09 mg/L	3.38 NTU	-32.6 mV	13.36 ft	200.00 ml/min
3/30/2020 2:55 PM	01:55:00	6.54 pH	17.81 °C	390.88 µS/cm	0.09 mg/L	4.11 NTU	-32.7 mV	13.36 ft	200.00 ml/min
3/30/2020 3:00 PM	02:00:00	6.51 pH	18.17 °C	387.04 µS/cm	0.08 mg/L	3.07 NTU	-32.2 mV	13.36 ft	200.00 ml/min
3/30/2020 3:05 PM	02:05:00	6.49 pH	18.03 °C	383.55 µS/cm	0.07 mg/L	2.90 NTU	-30.3 mV	13.30 ft	200.00 ml/min
3/30/2020 3:10 PM	02:10:00	6.49 pH	18.07 °C	382.70 µS/cm	0.07 mg/L	3.41 NTU	-29.7 mV	13.30 ft	200.00 ml/min
3/30/2020 3:15 PM	02:15:00	6.48 pH	18.11 °C	379.23 µS/cm	0.07 mg/L	3.81 NTU	-29.4 mV	13.30 ft	200.00 ml/min

## Samples

Sample ID:	Description:
GWC-7	Grab

# Low-Flow Test Report:

Test Date / Time: 3/27/2020 10:23:51 AM

Project: Plant Hammond

Operator Name: Chad Russo

<b>Location Name: GWC-8</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 17 ft</b> <b>Total Depth: 27.4 ft</b> <b>Initial Depth to Water: 8.60 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly ethylene</b> <b>Pump Intake From TOC: 22 ft</b> <b>Estimated Total Volume Pumped: 15.5 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 2.78 ft</b>	<b>Instrument Used: SmarTROLL MP</b> <b>Serial Number: 364452</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/27/2020 10:23 AM	00:00	6.85 pH	15.80 °C	728.60 µS/cm	0.21 mg/L		-19.9 mV		200.00 ml/min
3/27/2020 10:28 AM	05:00	6.83 pH	15.44 °C	736.17 µS/cm	0.19 mg/L	45.20 NTU	-17.9 mV	11.50 ft	200.00 ml/min
3/27/2020 10:33 AM	10:00	6.85 pH	15.71 °C	728.71 µS/cm	0.15 mg/L	32.10 NTU	-20.0 mV	11.71 ft	200.00 ml/min
3/27/2020 10:38 AM	15:00	6.84 pH	15.98 °C	719.03 µS/cm	0.17 mg/L	25.50 NTU	-21.0 mV	11.63 ft	100.00 ml/min
3/27/2020 10:43 AM	20:00	6.84 pH	16.02 °C	708.97 µS/cm	0.14 mg/L	20.90 NTU	-20.2 mV	11.66 ft	100.00 ml/min
3/27/2020 10:48 AM	25:00	6.85 pH	16.21 °C	701.26 µS/cm	0.13 mg/L	21.50 NTU	-22.0 mV	11.66 ft	100.00 ml/min
3/27/2020 10:53 AM	30:00	6.86 pH	16.41 °C	690.02 µS/cm	0.12 mg/L	22.90 NTU	-23.3 mV	11.66 ft	100.00 ml/min
3/27/2020 10:58 AM	35:00	6.87 pH	16.56 °C	684.42 µS/cm	0.12 mg/L	23.70 NTU	-24.3 mV	11.60 ft	100.00 ml/min
3/27/2020 11:03 AM	40:00	6.89 pH	16.65 °C	672.93 µS/cm	0.12 mg/L	22.90 NTU	-25.6 mV	11.58 ft	100.00 ml/min
3/27/2020 11:08 AM	45:00	6.88 pH	16.65 °C	667.51 µS/cm	0.12 mg/L	24.20 NTU	-25.8 mV	11.56 ft	100.00 ml/min
3/27/2020 11:13 AM	50:00	6.89 pH	16.83 °C	659.28 µS/cm	0.11 mg/L	24.00 NTU	-29.0 mV	11.55 ft	100.00 ml/min
3/27/2020 11:18 AM	55:00	6.91 pH	16.80 °C	645.98 µS/cm	0.11 mg/L	19.60 NTU	-30.1 mV	11.55 ft	100.00 ml/min
3/27/2020 11:23 AM	01:00:00	6.93 pH	17.14 °C	632.78 µS/cm	0.10 mg/L	19.80 NTU	-32.2 mV	11.50 ft	100.00 ml/min
3/27/2020 11:28 AM	01:05:00	6.94 pH	17.71 °C	625.32 µS/cm	0.11 mg/L	21.70 NTU	-35.4 mV	11.44 ft	100.00 ml/min
3/27/2020 11:33 AM	01:10:00	6.94 pH	17.73 °C	618.49 µS/cm	0.10 mg/L	14.80 NTU	-34.0 mV	11.41 ft	100.00 ml/min

3/27/2020 11:38 AM	01:15:00	6.94 pH	17.78 °C	613.22 µS/cm	0.09 mg/L	14.10 NTU	-37.4 mV	11.41 ft	100.00 ml/min
3/27/2020 11:43 AM	01:20:00	6.95 pH	18.00 °C	606.11 µS/cm	0.09 mg/L	12.30 NTU	-38.9 mV	11.41 ft	100.00 ml/min
3/27/2020 11:48 AM	01:25:00	6.96 pH	18.26 °C	610.42 µS/cm	0.09 mg/L	12.80 NTU	-39.0 mV	11.39 ft	100.00 ml/min
3/27/2020 11:53 AM	01:30:00	6.97 pH	18.30 °C	600.08 µS/cm	0.09 mg/L	11.30 NTU	-40.8 mV	11.39 ft	100.00 ml/min
3/27/2020 11:58 AM	01:35:00	6.96 pH	18.23 °C	598.57 µS/cm	0.09 mg/L	12.56 NTU	-38.4 mV	11.43 ft	100.00 ml/min
3/27/2020 12:03 PM	01:40:00	6.99 pH	18.29 °C	589.49 µS/cm	0.09 mg/L	12.85 NTU	-43.1 mV	11.36 ft	100.00 ml/min
3/27/2020 12:08 PM	01:45:00	6.98 pH	18.08 °C	590.73 µS/cm	0.09 mg/L	9.10 NTU	-42.4 mV	11.44 ft	100.00 ml/min
3/27/2020 12:13 PM	01:50:00	6.97 pH	18.54 °C	590.56 µS/cm	0.09 mg/L	9.37 NTU	-44.0 mV	11.34 ft	100.00 ml/min
3/27/2020 12:18 PM	01:55:00	6.98 pH	18.34 °C	583.96 µS/cm	0.08 mg/L	9.29 NTU	-43.9 mV	11.34 ft	100.00 ml/min
3/27/2020 12:23 PM	02:00:00	6.98 pH	18.66 °C	580.53 µS/cm	0.09 mg/L	8.14 NTU	-45.6 mV	11.30 ft	100.00 ml/min
3/27/2020 12:28 PM	02:05:00	7.01 pH	18.66 °C	572.17 µS/cm	0.08 mg/L	6.44 NTU	-47.2 mV	11.34 ft	100.00 ml/min
3/27/2020 12:33 PM	02:10:00	7.00 pH	18.61 °C	571.44 µS/cm	0.08 mg/L	5.28 NTU	-46.2 mV	11.34 ft	100.00 ml/min
3/27/2020 12:38 PM	02:15:00	7.01 pH	18.84 °C	577.30 µS/cm	0.08 mg/L	5.57 NTU	-47.4 mV	11.30 ft	100.00 ml/min
3/27/2020 12:43 PM	02:20:00	7.01 pH	18.88 °C	568.72 µS/cm	0.08 mg/L	4.80 NTU	-48.7 mV	11.38 ft	100.00 ml/min

## Samples

Sample ID:	Description:
GWC-8	Grab

# Low-Flow Test Report:

Test Date / Time: 3/27/2020 9:14:45 AM

Project: Plant Hammond

Operator Name: Chad Russo

<b>Location Name: GWC-9</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 42 ft</b> <b>Total Depth: 52.35 ft</b> <b>Initial Depth to Water: 11.72 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly ethylene</b> <b>Pump Intake From TOC: 47 ft</b> <b>Estimated Total Volume Pumped: 5 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.3 ft</b>	<b>Instrument Used: SmarTROLL MP</b> <b>Serial Number: 364452</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/27/2020 9:14 AM	00:00	7.15 pH	16.63 °C	311.15 µS/cm	1.03 mg/L		-80.2 mV	11.72 ft	200.00 ml/min
3/27/2020 9:19 AM	05:00	7.17 pH	16.43 °C	312.05 µS/cm	0.60 mg/L	8.71 NTU	-86.8 mV	12.00 ft	200.00 ml/min
3/27/2020 9:24 AM	10:00	7.16 pH	16.42 °C	308.32 µS/cm	0.30 mg/L	3.92 NTU	-94.1 mV	12.02 ft	200.00 ml/min
3/27/2020 9:29 AM	15:00	7.12 pH	16.47 °C	306.97 µS/cm	0.23 mg/L	4.03 NTU	-84.8 mV	12.02 ft	200.00 ml/min
3/27/2020 9:34 AM	20:00	7.11 pH	16.52 °C	305.99 µS/cm	0.20 mg/L	4.15 NTU	-84.7 mV	12.02 ft	200.00 ml/min

## Samples

Sample ID:	Description:
GWC-9	Grab

Product Name: Low-Flow System

Date: 2020-03-27 10:33:15

Project Information:

Operator Name Aaron Reeder  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 440279  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 28 ft

Pump placement from TOC ft

Well Information:

Well ID GWC-10  
Well diameter 2 in  
Well Total Depth 34.29 ft  
Screen Length 10 ft  
Depth to Water 15.79 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2149758 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 7 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		+/- 10%	+/- 10
Last 5	10:10:08	900.03	15.53	6.82	191.50	13.80	15.80	0.67	-13.64
Last 5	10:15:08	1200.03	15.62	6.82	191.81	10.40	15.80	0.56	-16.30
Last 5	10:20:08	1500.03	15.68	6.83	192.16	8.55	15.80	0.50	-17.09
Last 5	10:25:08	1800.03	15.76	6.81	192.81	8.22	15.80	0.43	-18.08
Last 5	10:30:08	2100.03	15.84	6.82	192.68	4.49	15.82	0.39	-16.70
Variance 0			0.06	0.00	0.35			-0.06	-0.78
Variance 1			0.08	-0.02	0.65			-0.07	-0.99
Variance 2			0.09	0.01	-0.12			-0.04	1.38

Notes

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B).

Grab Samples

GWC-10

Grab

FD-05

Grab

# Low-Flow Test Report:

Test Date / Time: 3/30/2020 2:26:38 PM

Project: Plant Hammond

Operator Name: Aaron Reeder

<b>Location Name: GWC-18</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 46.95 ft</b> <b>Total Depth: 56.95 ft</b> <b>Initial Depth to Water: 12.52 ft</b>	<b>Pump Type: Alexis Peri</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 51 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.33 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728550</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
3/30/2020 2:26 PM	00:00	7.65 pH	18.97 °C	358.04 µS/cm	2.28 mg/L	0.20 NTU	43.2 mV	12.52 ft	200.00 ml/min
3/30/2020 2:27 PM	00:43	7.64 pH	18.83 °C	353.12 µS/cm	2.23 mg/L	0.38 NTU	53.3 mV	13.62 ft	200.00 ml/min
3/30/2020 2:32 PM	05:43	7.63 pH	18.40 °C	352.36 µS/cm	2.16 mg/L	2.02 NTU	62.8 mV	13.72 ft	200.00 ml/min
3/30/2020 2:37 PM	10:43	7.62 pH	18.28 °C	341.48 µS/cm	2.13 mg/L	2.00 NTU	41.4 mV	13.82 ft	200.00 ml/min
3/30/2020 2:42 PM	15:43	7.62 pH	18.26 °C	345.38 µS/cm	2.29 mg/L	0.95 NTU	57.0 mV	13.85 ft	200.00 ml/min
3/30/2020 2:47 PM	20:43	7.65 pH	18.30 °C	340.36 µS/cm	2.20 mg/L	0.90 NTU	37.5 mV	13.85 ft	200.00 ml/min

## Samples

Sample ID:	Description:
GWC-18	Grab



# Low-Flow Test Report:

Test Date / Time: 3/31/2020 8:27:54 AM

Project: Plant Hammond/ Huffaker

Operator Name: Aaron Reeder

<b>Location Name: GWC-19</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 67.51 ft</b> <b>Total Depth: 57.51 ft</b> <b>Initial Depth to Water: 17.05 ft</b>	<b>Pump Type: Alexas peri</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 52 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.46 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728550</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Weather Conditions:

Cloudy

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
3/31/2020 8:27 AM	00:00	7.64 pH	15.17 °C	392.48 µS/cm	1.16 mg/L	7.15 NTU	-1.1 mV	17.05 ft	200.00 ml/min
3/31/2020 8:32 AM	05:00	7.64 pH	15.84 °C	384.50 µS/cm	0.55 mg/L	6.63 NTU	-36.5 mV	17.35 ft	200.00 ml/min
3/31/2020 8:37 AM	10:00	7.64 pH	15.89 °C	382.02 µS/cm	0.36 mg/L	4.42 NTU	-49.8 mV	17.50 ft	200.00 ml/min
3/31/2020 8:42 AM	15:00	7.63 pH	15.86 °C	381.77 µS/cm	0.34 mg/L	3.22 NTU	-20.7 mV	17.50 ft	200.00 ml/min
3/31/2020 8:47 AM	20:00	7.62 pH	15.89 °C	384.63 µS/cm	0.31 mg/L	2.56 NTU	-22.6 mV	17.50 ft	200.00 ml/min
3/31/2020 8:52 AM	25:00	7.62 pH	15.79 °C	383.86 µS/cm	0.29 mg/L	2.84 NTU	-63.4 mV	17.51 ft	200.00 ml/min

## Samples

Sample ID:	Description:
GWC-19	Grab

# Low-Flow Test Report:

**Test Date / Time:** 3/31/2020 10:07:55 AM

**Project:** Plant Hammond/ Huffaker (3)

**Operator Name:** Aaron Reeder

<b>Location Name:</b> GWC-20 <b>Well Diameter:</b> 2 in <b>Casing Type:</b> PVC Screen <b>Length:</b> 10 m <b>Top of Screen:</b> 24.36 ft <b>Total Depth:</b> 34.36 ft <b>Initial Depth to Water:</b> 2.34 ft	<b>Pump Type:</b> Alexas peri <b>Tubing Type:</b> Poly <b>Pump Intake From TOC:</b> 29 ft <b>Estimated Total Volume Pumped:</b> 7000 ml <b>Flow Cell Volume:</b> 90 ml <b>Final Flow Rate:</b> 100 ml/min <b>Final Draw Down:</b> 1.06 ft	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 728550
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Weather Conditions:

Rain

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
3/31/2020 10:07 AM	00:00	7.53 pH	13.95 °C	404.95 µS/cm	0.30 mg/L	22.10 NTU	-38.4 mV	2.34 ft	200.00 ml/min
3/31/2020 10:12 AM	05:00	7.53 pH	13.95 °C	404.02 µS/cm	0.24 mg/L	17.50 NTU	-79.6 mV	3.15 ft	200.00 ml/min
3/31/2020 10:17 AM	10:00	7.54 pH	14.00 °C	402.47 µS/cm	0.21 mg/L	21.20 NTU	-38.8 mV	3.25 ft	200.00 ml/min
3/31/2020 10:22 AM	15:00	7.54 pH	13.86 °C	402.20 µS/cm	0.18 mg/L	23.30 NTU	-41.8 mV	3.26 ft	200.00 ml/min
3/31/2020 10:27 AM	20:00	7.55 pH	13.68 °C	400.04 µS/cm	0.17 mg/L	28.60 NTU	-42.8 mV	3.27 ft	200.00 ml/min
3/31/2020 10:32 AM	25:00	7.55 pH	13.41 °C	401.16 µS/cm	0.17 mg/L	19.90 NTU	-44.8 mV	3.26 ft	100.00 ml/min
3/31/2020 10:37 AM	30:00	7.56 pH	13.62 °C	403.00 µS/cm	0.16 mg/L	16.80 NTU	-46.6 mV	3.26 ft	100.00 ml/min
3/31/2020 10:42 AM	35:00	7.56 pH	13.66 °C	400.30 µS/cm	0.15 mg/L	9.64 NTU	-97.0 mV	3.40 ft	100.00 ml/min
3/31/2020 10:47 AM	40:00	7.57 pH	13.69 °C	400.97 µS/cm	0.14 mg/L	4.45 NTU	-49.1 mV	3.40 ft	100.00 ml/min

## Samples

Sample ID:	Description:
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GWC-20	Grab
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Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 3/31/2020 1:37:55 PM

Project: Plant Hammond/ Huffaker (5)

Operator Name: Aaron Reeder

<b>Location Name: GWC-21</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 m</b> <b>Top of Screen: 8.23 m</b> <b>Total Depth: 18.23 ft</b> <b>Initial Depth to Water: 4 ft</b>	<b>Pump Type: Alexas peri</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 13 ft</b> <b>Estimated Total Volume Pumped: 10000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.19 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728550</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B).

## Weather Conditions:

Rain

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
3/31/2020 1:37 PM	00:00	7.16 pH	15.13 °C	368.82 µS/cm	5.34 mg/L	0.49 NTU	68.3 mV	4.00 ft	100.00 ml/min
3/31/2020 1:42 PM	05:00	7.10 pH	15.13 °C	364.44 µS/cm	4.55 mg/L	0.52 NTU	44.5 mV	4.16 ft	100.00 ml/min
3/31/2020 1:47 PM	10:00	6.95 pH	14.86 °C	339.24 µS/cm	3.62 mg/L	0.53 NTU	34.0 mV	4.15 ft	100.00 ml/min
3/31/2020 1:52 PM	15:00	6.74 pH	15.22 °C	289.27 µS/cm	2.39 mg/L	0.62 NTU	46.8 mV	4.15 ft	100.00 ml/min
3/31/2020 1:57 PM	20:00	6.67 pH	14.96 °C	268.41 µS/cm	1.94 mg/L	0.67 NTU	44.2 mV	4.15 ft	100.00 ml/min
3/31/2020 2:02 PM	25:00	6.65 pH	14.85 °C	259.03 µS/cm	1.72 mg/L	0.57 NTU	43.6 mV	4.15 ft	100.00 ml/min
3/31/2020 2:07 PM	30:00	6.62 pH	14.79 °C	250.55 µS/cm	1.63 mg/L	0.42 NTU	28.9 mV	4.17 ft	100.00 ml/min
3/31/2020 2:12 PM	35:00	6.57 pH	14.67 °C	238.87 µS/cm	1.47 mg/L	0.48 NTU	45.6 mV	4.17 ft	100.00 ml/min
3/31/2020 2:17 PM	40:00	6.54 pH	14.65 °C	230.27 µS/cm	1.42 mg/L	0.54 NTU	28.5 mV	4.17 ft	100.00 ml/min
3/31/2020 2:22 PM	45:00	6.52 pH	14.70 °C	222.81 µS/cm	1.26 mg/L	0.48 NTU	44.1 mV	4.17 ft	100.00 ml/min
3/31/2020 2:27 PM	50:00	6.51 pH	14.85 °C	219.97 µS/cm	1.29 mg/L	0.52 NTU	28.3 mV	4.17 ft	100.00 ml/min
3/31/2020 2:32 PM	55:00	6.46 pH	14.99 °C	207.34 µS/cm	1.12 mg/L	0.63 NTU	47.1 mV	4.17 ft	100.00 ml/min

3/31/2020 2:37 PM	01:00:00	6.45 pH	15.03 °C	204.93 µS/cm	1.01 mg/L	0.54 NTU	29.9 mV	4.19 ft	100.00 ml/min
3/31/2020 2:42 PM	01:05:00	6.43 pH	15.07 °C	197.55 µS/cm	1.24 mg/L	0.48 NTU	48.4 mV	4.19 ft	100.00 ml/min
3/31/2020 2:47 PM	01:10:00	6.41 pH	14.96 °C	193.77 µS/cm	0.91 mg/L	0.58 NTU	49.8 mV	4.19 ft	100.00 ml/min
3/31/2020 2:52 PM	01:15:00	6.40 pH	14.86 °C	190.91 µS/cm	0.79 mg/L	0.50 NTU	31.1 mV	4.19 ft	100.00 ml/min
3/31/2020 2:57 PM	01:20:00	6.36 pH	14.82 °C	182.87 µS/cm	0.66 mg/L	0.34 NTU	51.6 mV	4.19 ft	100.00 ml/min
3/31/2020 3:02 PM	01:25:00	6.35 pH	14.72 °C	173.85 µS/cm	1.08 mg/L	0.44 NTU	53.1 mV	4.19 ft	100.00 ml/min
3/31/2020 3:07 PM	01:30:00	6.34 pH	14.63 °C	175.57 µS/cm	1.20 mg/L	0.53 NTU	33.0 mV	4.19 ft	100.00 ml/min
3/31/2020 3:12 PM	01:35:00	6.33 pH	14.57 °C	171.32 µS/cm	0.66 mg/L		32.5 mV	4.19 ft	100.00 ml/min

## Samples

Sample ID:	Description:
GWC-21	Grab

# Low-Flow Test Report:

Test Date / Time: 3/31/2020 11:52:56 AM

Project: Plant Hammond/ Huffaker (4)

Operator Name: Aaron Reeder

<b>Location Name: GWC-22</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 32.05 ft</b> <b>Total Depth: 42.05 ft</b> <b>Initial Depth to Water: 0.6 ft</b>	<b>Pump Type: Alexas peri</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 37 ft</b> <b>Estimated Total Volume Pumped: 6250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.85 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728550</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Weather Conditions:

Raining

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
3/31/2020 11:52 AM	00:00	7.80 pH	14.21 °C	338.60 µS/cm	0.22 mg/L	31.20 NTU	-77.5 mV	0.60 ft	150.00 ml/min
3/31/2020 11:57 AM	05:00	7.80 pH	14.22 °C	337.40 µS/cm	0.19 mg/L	21.50 NTU	-69.9 mV	1.40 ft	150.00 ml/min
3/31/2020 12:02 PM	10:00	7.80 pH	14.18 °C	336.96 µS/cm	0.17 mg/L	14.00 NTU	-69.3 mV	1.40 ft	150.00 ml/min
3/31/2020 12:07 PM	15:00	7.80 pH	14.25 °C	335.35 µS/cm	0.16 mg/L	11.30 NTU	-121.0 mV	1.40 ft	150.00 ml/min
3/31/2020 12:12 PM	20:00	7.80 pH	14.28 °C	335.03 µS/cm	0.16 mg/L	16.90 NTU	-123.6 mV	1.40 ft	150.00 ml/min
3/31/2020 12:17 PM	25:00	7.80 pH	14.54 °C	334.82 µS/cm	0.16 mg/L	11.05 NTU	-72.0 mV	1.40 ft	150.00 ml/min
3/31/2020 12:22 PM	30:00	7.80 pH	14.72 °C	332.63 µS/cm	0.15 mg/L	10.87 NTU	-73.6 mV	1.45 ft	150.00 ml/min
3/31/2020 12:27 PM	35:00	7.81 pH	15.04 °C	331.97 µS/cm	0.15 mg/L	8.47 NTU	-75.4 mV	1.45 ft	150.00 ml/min
3/31/2020 12:32 PM	40:00	7.80 pH	14.87 °C	331.10 µS/cm	0.16 mg/L	4.71 NTU	-73.9 mV	1.45 ft	150.00 ml/min

## Samples

Sample ID:	Description:
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GWC-22	Grab
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# Low-Flow Test Report:

Test Date / Time: 3/26/2020 2:31:28 PM

Project: Plant Hammond

Operator Name: Chad Russo

<b>Location Name: GWC-23</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 40 ft</b> <b>Total Depth: 50.02 ft</b> <b>Initial Depth to Water: 6.24 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly ethylene</b> <b>Pump Intake From TOC: 45 ft</b> <b>Estimated Total Volume Pumped: 10 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.5 ft</b>	<b>Instrument Used: SmarTROLL MP</b> <b>Serial Number: 364452</b>
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## Test Notes:

Restarted purge to wait for pH to stabilize.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/26/2020 2:31 PM	00:00	6.71 pH	18.74 °C	293.70 µS/cm	0.67 mg/L		161.5 mV	6.24 ft	200.00 ml/min
3/26/2020 2:36 PM	05:00	6.71 pH	17.99 °C	297.96 µS/cm	0.37 mg/L	13.06 NTU	39.3 mV	6.73 ft	200.00 ml/min
3/26/2020 2:41 PM	10:00	6.73 pH	17.94 °C	301.79 µS/cm	0.24 mg/L	10.95 NTU	21.7 mV	6.74 ft	200.00 ml/min
3/26/2020 2:46 PM	15:00	6.75 pH	18.19 °C	302.98 µS/cm	0.20 mg/L	9.22 NTU	13.1 mV	6.74 ft	200.00 ml/min
3/26/2020 2:51 PM	20:00	6.77 pH	17.99 °C	306.92 µS/cm	0.17 mg/L	9.48 NTU	9.1 mV	6.74 ft	200.00 ml/min
3/26/2020 2:56 PM	25:00	6.77 pH	18.30 °C	305.32 µS/cm	0.15 mg/L	8.82 NTU	6.7 mV	6.74 ft	200.00 ml/min
3/26/2020 3:01 PM	30:00	6.78 pH	18.12 °C	308.38 µS/cm	0.14 mg/L	9.57 NTU	4.6 mV	6.74 ft	200.00 ml/min
3/26/2020 3:06 PM	35:00	6.79 pH	17.90 °C	310.50 µS/cm	0.14 mg/L	8.77 NTU	2.5 mV	6.74 ft	200.00 ml/min
3/26/2020 3:11 PM	40:00	6.80 pH	17.83 °C	309.14 µS/cm	0.34 mg/L	7.75 NTU	5.7 mV	6.74 ft	200.00 ml/min
3/26/2020 3:16 PM	45:00	6.82 pH	17.84 °C	309.94 µS/cm	0.33 mg/L	4.68 NTU	3.7 mV	6.74 ft	200.00 ml/min

## Samples

Sample ID:	Description:
GWC-23	Grab



# Low-Flow Test Report:

Test Date / Time: 3/26/2020 3:29:24 PM

Project: Plant Hammond

Operator Name: Chad Russo

<b>Location Name: GWC-23</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 40 ft</b> <b>Total Depth: 50.02 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly ethylene</b> <b>Pump Intake From TOC: 45 ft</b> <b>Estimated Total Volume Pumped: 24 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.5 ft</b>	<b>Instrument Used: SmarTROLL MP</b> <b>Serial Number: 364452</b>
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## Test Notes:

Three bottles: One 500-mL plastic bottle for TDS (EPA 2540C); one 250-mL plastic bottle for Cl, F, SO<sub>4</sub> (EPA 300.0); and one 250-mL plastic bottle with HNO<sub>3</sub> for App. III and IV metals (EPA 6020B).

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
3/26/2020 3:29 PM	00:00	6.83 pH	18.40 °C	310.98 µS/cm	0.67 mg/L		3.7 mV		200.00 ml/min
3/26/2020 3:34 PM	05:00	6.82 pH	17.72 °C	314.58 µS/cm	0.27 mg/L	5.78 NTU	0.1 mV	6.74 ft	200.00 ml/min
3/26/2020 3:39 PM	10:00	6.83 pH	17.75 °C	314.67 µS/cm	0.18 mg/L	7.01 NTU	-1.6 mV	6.74 ft	200.00 ml/min
3/26/2020 3:44 PM	15:00	6.85 pH	17.84 °C	313.55 µS/cm	0.14 mg/L	6.01 NTU	-3.0 mV	6.74 ft	200.00 ml/min
3/26/2020 3:49 PM	20:00	6.84 pH	17.69 °C	313.31 µS/cm	0.12 mg/L	5.61 NTU	-3.7 mV	6.74 ft	200.00 ml/min
3/26/2020 3:54 PM	25:00	6.85 pH	17.81 °C	312.59 µS/cm	0.36 mg/L	5.67 NTU	-2.7 mV	6.74 ft	200.00 ml/min
3/26/2020 3:59 PM	30:00	6.85 pH	17.81 °C	312.23 µS/cm	0.22 mg/L	5.15 NTU	-3.9 mV	6.74 ft	200.00 ml/min
3/26/2020 4:04 PM	35:00	6.86 pH	17.68 °C	311.39 µS/cm	0.14 mg/L	4.34 NTU	-5.0 mV	6.74 ft	200.00 ml/min
3/26/2020 4:09 PM	40:00	6.86 pH	17.75 °C	311.00 µS/cm	0.12 mg/L	4.68 NTU	-5.6 mV	6.74 ft	200.00 ml/min
3/26/2020 4:14 PM	45:00	6.87 pH	17.77 °C	310.94 µS/cm	0.11 mg/L	5.56 NTU	-6.6 mV	6.74 ft	200.00 ml/min
3/26/2020 4:19 PM	50:00	6.88 pH	17.72 °C	310.16 µS/cm	0.10 mg/L	4.28 NTU	-6.7 mV	6.74 ft	200.00 ml/min
3/26/2020 4:24 PM	55:00	6.88 pH	17.68 °C	309.18 µS/cm	0.10 mg/L	4.88 NTU	-8.5 mV	6.74 ft	200.00 ml/min
3/26/2020 4:29 PM	01:00:00	6.88 pH	17.81 °C	309.36 µS/cm	0.10 mg/L	4.32 NTU	-8.4 mV	6.74 ft	200.00 ml/min

**Samples**

Sample ID:	Description:
GWC-23	Grab

Product Name: Low-Flow System

Date: 2020-06-18 17:42:58

Project Information:

Operator Name Chad Russo  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID GWC-6  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 16.28 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.237293 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 19 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		+/- 10%	+/- 10
Last 5	17:10:27	4200.02	20.84	6.95	498.26	7.00	16.36	2.95	-34.16
Last 5	17:15:27	4500.01	20.87	6.95	485.65	7.02	16.36	3.28	-35.79
Last 5	17:20:27	4800.01	20.92	6.95	496.60	8.47	16.36	3.05	-36.67
Last 5	17:25:27	5100.01	20.89	6.96	489.48	4.91	16.36	2.92	-38.13
Last 5	17:30:27	5400.01	20.93	6.96	496.81	3.68	16.36	3.09	-39.11
Variance 0			0.05	-0.00	10.95			-0.22	-0.88
Variance 1			-0.04	0.01	-7.12			-0.13	-1.46
Variance 2			0.05	-0.01	7.33			0.16	-0.98

Notes

One 250-mL plastic bottle with HNO3 for B (EPA 6020B). Total depth: 43.08'

Grab Samples

GWC-6  
Grab

Product Name: Low-Flow System

Date: 2020-06-19 10:50:20

Project Information:

Operator Name Shawn Lin  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 597519  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-7  
Well diameter 2 in  
Well Total Depth 32.45 ft  
Screen Length 10 ft  
Depth to Water 15.51 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 10.5 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			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:29:16	1200.02	19.11	6.48	494.14	10.42	15.81	0.05	6.21
Last 5	10:34:16	1500.02	19.16	6.48	486.09	9.87	15.81	0.04	8.66
Last 5	10:39:16	1800.01	19.13	6.47	477.62	7.17	15.81	0.04	11.56
Last 5	10:44:16	2100.02	19.17	6.46	473.66	5.53	15.81	0.04	12.79
Last 5	10:49:16	2399.98	19.24	6.45	468.42	4.58	15.81	0.03	14.37
Variance 0			-0.04	-0.00	-8.46			-0.00	2.89
Variance 1			0.04	-0.01	-3.97			-0.00	1.23
Variance 2			0.07	-0.01	-5.23			-0.00	1.58

Notes

One 250-mL plastic bottle for CI (EPA 300.0).

Grab Samples

GWC-7  
Grab

Product Name: Low-Flow System

Date: 2020-06-19 11:42:28

Project Information:

Operator Name Shawn Lin  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 597519  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-8  
Well diameter 2 in  
Well Total Depth 27.71 ft  
Screen Length 10 ft  
Depth to Water 11.81 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 5.5 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			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:25:08	300.03	19.17	6.76	841.30	7.91	13.95	0.07	-29.23
Last 5	11:30:08	600.02	18.92	6.78	830.87	4.29	14.14	0.06	-29.04
Last 5	11:35:08	900.02	19.30	6.79	817.44	2.50	14.30	0.05	-29.48
Last 5	11:40:08	1200.02	19.37	6.81	803.51	4.50	14.39	0.05	-30.19
Last 5									
Variance 0			-0.25	0.02	-10.44			-0.01	0.19
Variance 1			0.38	0.01	-13.42			-0.01	-0.44
Variance 2			0.07	0.02	-13.94			-0.00	-0.71

Notes

One 250-mL plastic bottle with HNO3 for B (EPA 6020B).

Grab Samples

GWC-8  
Grab



Product Name: Low-Flow System

Date: 2020-06-19 14:02:38

Project Information:

Operator Name Chad Russo  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 30 ft

Pump placement from TOC 30 ft

Well Information:

Well ID GWC-10  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 15.02 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2239027 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 29 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		+/- 10%	+/- 10
Last 5	13:39:28	6600.02	18.40	7.40	328.97	8.47	15.06	0.08	-74.20
Last 5	13:44:28	6900.02	18.26	7.39	329.46	6.52	15.06	0.08	-73.57
Last 5	13:49:28	7200.01	18.19	7.40	328.91	5.51	15.06	0.08	-74.90
Last 5	13:54:28	7500.01	18.35	7.40	328.51	6.28	15.06	0.08	-75.21
Last 5	13:59:28	7800.01	18.35	7.40	328.99	4.56	15.06	0.08	-75.76
Variance 0			-0.07	0.02	-0.56			-0.00	-1.33
Variance 1			0.16	-0.00	-0.39			0.00	-0.30
Variance 2			-0.00	-0.00	0.47			-0.00	-0.56

Notes

Well purged for pH recheck. No sample was collected. Total depth: 34.52'

Product Name: Low-Flow System

Date: 2020-06-19 14:21:07

Project Information:

Operator Name Shawn Lin  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 597519  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-19  
Well diameter 2 in  
Well Total Depth 57.50 ft  
Screen Length 10 ft  
Depth to Water 19.92 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 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			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:10:06	300.02	18.92	7.62	393.98	3.18	20.30	0.85	98.06
Last 5	14:15:06	600.02	19.01	7.60	394.08	2.63	20.30	0.80	99.66
Last 5	14:20:06	900.02	18.75	7.61	395.42	2.19	20.30	0.78	100.75
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.09	-0.01	0.09			-0.05	1.59
Variance 2			-0.26	0.00	1.35			-0.02	1.09

Notes

One 250-mL plastic bottle with HNO3 for Ca (EPA 6020B).

Grab Samples

GWC-19  
Grab

Product Name: Low-Flow System

Date: 2020-06-19 12:51:52

Project Information:

Operator Name Shawn Lin  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 597519  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth 31.49 ft  
Screen Length 10 ft  
Depth to Water 4.83 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 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			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:40:02	300.02	19.45	7.24	423.97	2.65	5.53	0.11	-83.00
Last 5	12:45:02	600.02	19.28	7.28	424.71	2.23	5.59	0.09	-81.45
Last 5	12:50:02	899.91	19.11	7.31	424.46	2.12	5.62	0.08	-78.84
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.16	0.04	0.74			-0.01	1.54
Variance 2			-0.18	0.04	-0.25			-0.01	2.62

Notes

One 250-mL plastic bottle with HNO3 for Ba,Ca (EPA 6020B).

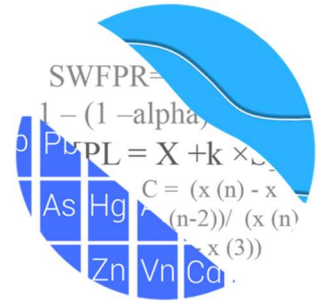
Grab Samples

GWC-20  
Grab

## APPENDIX E

### Statistical Analyses Report

## GROUNDWATER STATS CONSULTING



August 26, 2020

Southern Company Services  
Attn: Ms. Kristen Jurinko  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308

Re: Plant Hammond's Huffaker Road Landfill  
March 2020 Event – Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2020 Semi-Annual Groundwater Monitoring Statistical summary of the analysis of groundwater data for Georgia Power Company's Plant Hammond's Huffaker Road Landfill. An addendum report which evaluates data collected as resamples subsequent to this analysis follows the main report. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Georgia EPD parameters in 2007 and for the CCR program in 2016. At least 8 background samples have been collected at each of the groundwater monitoring wells. Semi-annual sampling for select constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations; and all available data are screened in this report.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient:** GWA-1, GWA-11, GWA-2, GWA-3, and GWA-4
- **Downgradient:** GWC-10, GWC-18, GWC-19, GWC-20, GWC-21, GWC-22, GWC-23, GWC-5, GWC-6, GWC-7, GWC-8, and GWC-9

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The following constituents were evaluated:

- **Appendix III** – boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD** – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects follows this letter.

A substitution of the most recent reporting limit is used for nondetect data. Reporting limits often decrease over time due to improved laboratory practices and often result in more conservative statistical limits. As a result, some limits for cadmium, cobalt, copper, nickel, and silver have decreased. However, in some cases the most recent reporting limit increased compared to historical data. Specifically, the reporting limit for zinc increased from 0.01 mg/L to 0.02 mg/L and resulted in slightly higher limits. Also, the most recent reporting limit is substituted on a well-by-well basis for computing prediction limits. Therefore, individual wells can have different substitutions for a given parameter depending on what the laboratory has reported.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. During the initial background screening of the Appendix III parameters, the 1-of-2 resample plan did not provide sufficient power; therefore, a 1-of-3 resample plan was recommended due to the limited background sample sizes in each of the wells at that time.

During the March 2020 background update for the Appendix III parameters, however, the background sample sizes increased in each of the wells, and power curves were provided to show that the 1-of-2 resample plan provides sufficient power to meet the EPA recommendation mentioned above. Power curves were based on the following:

**Georgia EPD Constituents:**

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (all Georgia EPD parameters)
- # Constituents: 15
- # Downgradient wells: 12

**CCR Appendix III Constituents:**

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (all Appendix III parameters)
- # Constituents: 7
- # Downgradient wells: 12

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality.



After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In some cases, an earlier portion of data is deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

## **Georgia EPD Background Screening Summary – Conducted in August 2019**

### Outlier and Trend Testing

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. When the most recent values are identified as outliers, values were not flagged in the database at this time

(except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers. Due to changing reporting limits for many constituents, when the nondetects were replaced with the most recent reporting limit, previously flagged "J" values (or estimated values) required flagging as outliers because they were much higher than current reporting limits.

Of the outliers identified by Tukey's method, several values were flagged in the database, and the remaining values were similar to other measurements within a given well or neighboring wells or were reported nondetects. Several other values were flagged in addition to those identified by Tukey's because the values were higher than all remaining concentrations and would cause the statistical limits to be elevated. These values are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. A summary of all flagged values is included in Figure C.

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. Several statistically significant decreasing trends were noted, as well as a few statistically significant increasing

trends for barium. The magnitude of the majority of these trends were low relative to the average concentrations and, therefore, required no adjustments to the record.

However, background adjustments were made for barium in wells GWA-2, GWC-19, GWC-22, GWC-6, GWC-7, and GWC-9; and cobalt, nickel, and zinc in well GWC-7. Earlier data for each of these well/constituent pairs were deselected to reduce variation and utilize samples that were more representative of current groundwater concentrations. For those cases with increasing trends in barium, the assumption is that the increase is a result of natural variation and not the result of the facility. Under that assumption, the more recent data would represent unimpacted conditions. Thorough evaluation of that assumption requires a separate geochemical investigation that is beyond the scope of services provided by Groundwater Stats Consulting. However, increasing barium concentrations were noted in both upgradient and downgradient wells, suggesting that the groundwater quality is changing due to natural spatial variation. The trends for cobalt, nickel and zinc, are decreasing, and the more recent data result in more conservative prediction limits. Complete trend analysis results were presented with the August 2019 screening report. A date range summary table is provided with this report to show the adjusted date ranges used in construction of the statistical limits.

#### Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells for constituents detected in downgradient wells. The ANOVA assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data for: arsenic, barium, cobalt, and nickel. The ANOVA did not identify variation for antimony, beryllium, cadmium, chromium, copper, lead, selenium, and zinc. The ANOVA could not test the following constituents because the data had no variation among the upgradient wells: silver, thallium, and vanadium.

Where variation is not identified, this suggests that interwell analysis would be the most appropriate statistical method for these constituents. However, because this is a lined landfill with pre-waste data showing that metals occur naturally in low level detections, intrawell methods are recommended as the primary statistical method for all detected well/constituent pairs. Intrawell methods are generally based on an assumption of no existing impacts of the facility in background data. While the assumption is supported by pre-waste data, thorough evaluation of that assumption requires a separate geochemical investigation, especially for the cases of increasing trends in concentration following waste placement. That study is beyond the scope of services provided by Groundwater Stats Consulting.

### **Appendix III Background Update Summary – Conducted in March 2020**

Prior to updating background data, Tukey's outlier test and visual screening were used to evaluate data from both upgradient and downgradient wells through November 2019. Tukey's test noted potential outliers in downgradient wells for all parameters, but not all of these values were flagged as some appeared to be representative of natural variation. Any flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of flagged outliers follows this letter (Figure C).

For constituents requiring intrawell prediction limits (all constituents in this instance), the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through March 2017 to the new compliance samples at each well through November 2019. If the medians of the two groups are not significantly different at the 99% confidence level, background data are typically updated to include the newer compliance data. Statistically significant differences were found between the two groups for the following well/constituent pairs: boron in downgradient wells GWC-19 and GWC-7; chloride in downgradient well GWC-8; pH in downgradient wells GWC-20 and GWC-22; sulfate in downgradient well GWC-20; and TDS in downgradient wells GWC-6 and GWC-8.

Note that although not statistically significant at the 99% confidence level, the increase in median concentrations between background and compliance data for boron at GWC-8 was significant at the 98% confidence level. This case is discussed below.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. In

studies in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians. In this analysis, all but one of the cases with statistically significant Mann-Whitney results were updated. The individual cases are discussed below.

Boron in wells GWC-19 and GWC-7 leaned towards more stable concentrations at slightly lower levels. Boron at GWC-8 had three high values most recently, but the higher concentrations were similar to those in upgradient wells. The measured pH in downgradient wells GWC-20 and GWC-22 stabilized at slightly lower levels, closer to a neutral pH of 7.

Chloride in GWC-8 and TDS in both GWC-6 and GWC-8 showed moderate increases in median concentrations due to a short-term spike with the most recent concentrations similar to those in one or more background wells. The only case that was not updated at the time of the update was sulfate at well GWC-20, which has a marked and steadily increasing trend that was not present in the upgradient wells. However, it was later determined through an alternate source demonstration that this trend is short-term or not the result of the facility, and this record was appropriately updated. Since the older background period comprises only a single year of data, it was likely that the difference in medians is due to natural year-to-year variation. A list of well/constituent pairs that use a truncated portion of their record also follows this report in the date range table mentioned above.

For all Appendix III parameters, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through November 2019. Future compliance observations at each well are compared to these background limits during each subsequent semi-annual sampling event.

### **Evaluation of Georgia EPD Constituents – March 2020**

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed upgradient concentrations for a given constituent where intrawell analyses are

recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data through December 2018, except for the cases mentioned above, within each well. The March 2020 compliance data were compared to these intrawell background limits. As mentioned above, no statistical analyses were included for well/constituent pairs with 100% nondetects. A summary of those well/constituent pairs follows this letter.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. A summary of the Georgia EPD prediction limits follows this report (Figure D). Exceedances were noted for the following downgradient well/constituent pairs:

- Barium: GWC-8, GWC-19, and GWC-20

While the Sanitas software identified a statistical exceedance for barium in well GWC-19, it is due to rounding of significant figures with a reported March 2020 measurement of 0.17 mg/L when compared to its prediction limit of 0.1697 mg/L.

When prediction limit exceedances occur in any of the downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. This is the case for the increasing trends noted below for barium which suggests the changes are naturally occurring in groundwater quality and are unrelated to practices at the site. Additionally, A summary of the trend test results follows this letter (Figure E). Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Barium: GWA-2 (upgradient) and GWC-20

Decreasing trends:

- Barium: GWA-3 (upgradient) and GWA-4 (upgradient)

### **Evaluation of Appendix III Parameters – March 2020**

For all Appendix III parameters, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through November 2019. The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. A summary of the Appendix III prediction limits follows this report (Figure F). Exceedances were noted for the following downgradient well/constituent pairs:

- Boron: GWC-6 and GWC-8
- Calcium: GWC-19 and GWC-20
- Chloride: GWC-7
- pH: GWC-10

Note that the most recent reported measurements for boron in wells GWC-6 and GWC-8 are higher than their respective background limits. However, because these values are flagged by the laboratory with "J" to indicate the measurements are estimated values (i.e. less than the reporting limit of 0.1 mg/L), they are not identified as statistically significant by the Sanitas software. Data are further evaluated using trend tests as discussed below.

Data from downgradient well/constituent pairs found to exceed their respective prediction limit were further evaluated using the Sen's Slope/Mann Kendall trend test using 99% confidence, along with upgradient wells for the same constituents. A summary of the trend test results follows this letter (Figure G). No statistically significant increasing trends were found except for boron in well GWC-8. Reported concentrations of boron in this well, however, are estimated values as discussed above and are lower than those reported in one or more of the upgradient wells which indicate boron is naturally occurring in groundwater quality. A statistically significant decreasing trend was noted for pH in well GWC-10.



Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Hammond's Huffaker Road Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins  
Groundwater Analyst



Kristina Rayner  
Groundwater Statistician

# 100% Nondetect Well-Constituent Pairs

Date: 6/12/2020 2:56 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

**Antimony (mg/L)**

GWC-18, GWC-20, GWC-21, GWC-22, GWC-23

**Arsenic (mg/L)**

GWA-1, GWA-2, GWC-10, GWC-19, GWC-20, GWC-22, GWC-6

**Beryllium (mg/L)**

GWA-1, GWA-11, GWA-2, GWA-4, GWC-10, GWC-18, GWC-19, GWC-20, GWC-21, GWC-22, GWC-23, GWC-5, GWC-6, GWC-8, GWC-9

**Cadmium (mg/L)**

GWA-1, GWA-11, GWA-2, GWA-3, GWC-19, GWC-22, GWC-6

**Cobalt (mg/L)**

GWC-18, GWC-19, GWC-20, GWC-22

**Copper (mg/L)**

GWA-1

**Lead (mg/L)**

GWA-1, GWA-2, GWA-4, GWC-18, GWC-9

**Selenium (mg/L)**

GWA-1, GWA-11, GWA-2, GWA-3, GWC-18, GWC-19, GWC-20, GWC-23, GWC-5, GWC-6, GWC-7, GWC-8

**Silver (mg/L)**

GWA-1, GWA-11, GWA-2, GWA-3, GWA-4, GWC-10, GWC-18, GWC-19, GWC-20, GWC-22, GWC-23, GWC-5, GWC-6, GWC-7, GWC-8, GWC-9

**Thallium (mg/L)**

GWA-1, GWA-11, GWA-2, GWA-3, GWA-4, GWC-10, GWC-18, GWC-19, GWC-20, GWC-21, GWC-22, GWC-23, GWC-5, GWC-6, GWC-8, GWC-9

**Vanadium (mg/L)**

GWA-1, GWA-11, GWA-2, GWA-3, GWA-4, GWC-10, GWC-18, GWC-19, GWC-20, GWC-22, GWC-6, GWC-8

# Date Ranges

Date: 6/12/2020 1:27 PM

Plant Hammond    Client: Southern Company    Data: Huffaker Road Landfill

Barium (mg/L)

- GWA-2 background:4/13/2010-10/4/2018
- GWC-19 background:4/13/2010-10/4/2018
- GWC-22 background:4/13/2010-10/4/2018
- GWC-6 background:3/23/2016-10/4/2018
- GWC-7 background:4/3/2012-10/4/2018
- GWC-9 background:10/4/2011-10/5/2018

Cobalt (mg/L)

- GWC-7 background:3/12/2013-10/4/2018

Nickel (mg/L)

- GWC-7 background:3/12/2013-10/4/2018

Zinc (mg/L)

- GWC-7 background:3/12/2013-10/4/2018

# Outlier Summary

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 5/28/2020, 3:53 PM

	GWC-8 Antimony (mg/L)	GWC-7 Arsenic (mg/L)	GWC-7 Beryllium (mg/L)	GWC-7 Cadmium (mg/L)	GWC-8 Calcium (mg/L)	GWC-20 Chloride (mg/L)	GWC-7 Chromium (mg/L)	GWC-7 Cobalt (mg/L)	GWC-7 Copper (mg/L)	GWC-7 Nickel (mg/L)
5/9/2007	0.038 (o)	0.28 (o)	0.023 (o)			0.11 (o)	6.5 (o)	0.44 (o)	18 (o)	
7/6/2007							2.1 (o)		5.9 (o)	
8/28/2007							1.4 (o)			
11/6/2007	0.0064 (o)						1.1 (o)			
10/5/2017						5.5 (o)				
10/4/2018					264 (o)					

	GWC-7 Zinc (mg/L)
5/9/2007	45 (o)
7/6/2007	16 (o)
8/28/2007	11 (o)
11/6/2007	
10/5/2017	
10/4/2018	

# State Parameter Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 5/28/2020, 4:07 PM

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-19	0.1697	n/a	3/31/2020	0.17	Yes	23	0.00038790	0.000176	0	None	x^4	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-20	0.1358	n/a	3/31/2020	0.15	Yes	31	0.001502	0.0004195	0	None	x^3	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-8	0.1227	n/a	3/27/2020	0.14	Yes	31	0.316	0.01439	0	None	sqrt(x)	0.0002926	Param Intra 1 of 2

# State Parameter Prediction Limits - All Results

Plant Hammond    Client: Southern Company    Data: Huffaker Road Landfill    Printed 5/28/2020, 4:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-1	0.003	n/a	3/26/2020	0.00028	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-11	0.003	n/a	3/26/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-2	0.003	n/a	3/26/2020	0.00049	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-3	0.003	n/a	3/26/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-4	0.003	n/a	3/26/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-10	0.003	n/a	3/27/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-19	0.003	n/a	3/31/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5	0.003	n/a	3/31/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-6	0.003	n/a	3/31/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-7	0.003	n/a	3/30/2020	0.003ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-8	0.003	n/a	3/27/2020	0.003ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	3/27/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-11	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-3	0.005	n/a	3/26/2020	0.00048	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-4	0.0065	n/a	3/26/2020	0.00044	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.005	n/a	3/30/2020	0.00073	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.005	n/a	3/31/2020	0.00035	No	30	n/a	n/a	86.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-23	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-7	0.0088	n/a	3/30/2020	0.0052	No	30	n/a	n/a	46.67	n/a	n/a	0.002008	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-8	0.005	n/a	3/27/2020	0.002	No	31	n/a	n/a	87.1	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.005	n/a	3/27/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-1	0.05021	n/a	3/26/2020	0.032	No	32	0.03919	0.00463	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWA-11	0.04217	n/a	3/26/2020	0.031	No	32	-3.4	0.09826	0	None	ln(x)	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWA-2	0.1987	n/a	3/26/2020	0.16	No	23	0.1657	0.01314	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWA-3	0.2268	n/a	3/26/2020	0.14	No	32	0.1719	0.02304	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWA-4	0.14	n/a	3/26/2020	0.049	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-10	0.1952	n/a	3/27/2020	0.037	No	34	0.1271	0.02885	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-18	0.08974	n/a	3/30/2020	0.077	No	32	0.07311	0.006987	0	None	No	0.0002926	Param Intra 1 of 2
<b>Barium (mg/L)</b>	<b>GWC-19</b>	<b>0.1697</b>	<b>n/a</b>	<b>3/31/2020</b>	<b>0.17</b>	<b>Yes 23</b>	<b>0.00038790</b>	<b>0.000176</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.0002926</b>	<b>Param Intra 1 of 2</b>	
<b>Barium (mg/L)</b>	<b>GWC-20</b>	<b>0.1358</b>	<b>n/a</b>	<b>3/31/2020</b>	<b>0.15</b>	<b>Yes 31</b>	<b>0.001502</b>	<b>0.0004195</b>	<b>0</b>	<b>None</b>	<b>x^3</b>	<b>0.0002926</b>	<b>Param Intra 1 of 2</b>	
Barium (mg/L)	GWC-21	0.2404	n/a	3/31/2020	0.044	No	30	-2.722	0.5402	0	None	ln(x)	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-22	0.121	n/a	3/31/2020	0.1	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-23	0.08464	n/a	3/26/2020	0.071	No	32	0.06272	0.009212	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-5	0.1274	n/a	3/31/2020	0.064	No	32	0.1019	0.01074	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-6	0.1978	n/a	3/31/2020	0.18	No	11	0.1654	0.01034	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-7	0.4063	n/a	3/30/2020	0.21	No	19	0.3226	0.1206	0	None	sqrt(x)	0.0002926	Param Intra 1 of 2
<b>Barium (mg/L)</b>	<b>GWC-8</b>	<b>0.1227</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>0.14</b>	<b>Yes 31</b>	<b>0.316</b>	<b>0.01439</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0002926</b>	<b>Param Intra 1 of 2</b>	
Barium (mg/L)	GWC-9	0.07338	n/a	3/27/2020	0.06	No	20	0.06193	0.00445	0	None	No	0.0002926	Param Intra 1 of 2
Beryllium (mg/L)	GWA-3	0.003	n/a	3/26/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-7	0.137	n/a	3/30/2020	0.003ND	No	30	-6.771	1.993	23.33	Kaplan-Meier	ln(x)	0.0002926	Param Intra 1 of 2
Cadmium (mg/L)	GWA-4	0.0025	n/a	3/26/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-10	0.0025	n/a	3/27/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-18	0.0025	n/a	3/30/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-20	0.0025	n/a	3/31/2020	0.0025ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-21	0.0025	n/a	3/31/2020	0.0025ND	No	30	n/a	n/a	93.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-23	0.0025	n/a	3/26/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5	0.0025	n/a	3/31/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-7	0.0081	n/a	3/30/2020	0.0025ND	No	30	n/a	n/a	80	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-8	0.0025	n/a	3/27/2020	0.0025ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-9	0.0025	n/a	3/27/2020	0.0025ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-1	0.016	n/a	3/26/2020	0.01ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-11	0.01	n/a	3/26/2020	0.01ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2	0.01	n/a	3/26/2020	0.00043	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-3	0.01	n/a	3/26/2020	0.00062	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2

# State Parameter Prediction Limits - All Results

Plant Hammond    Client: Southern Company    Data: Huffaker Road Landfill    Printed 5/28/2020, 4:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWA-4	0.01	n/a	3/26/2020	0.0013	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-10	0.01	n/a	3/27/2020	0.01ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-18	0.01	n/a	3/30/2020	0.00071	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-19	0.01	n/a	3/31/2020	0.00042	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.01	n/a	3/31/2020	0.01ND	No	31	n/a	n/a	90.32	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.01	n/a	3/31/2020	0.00093	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.01	n/a	3/31/2020	0.0015	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-23	0.01	n/a	3/26/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5	0.01	n/a	3/31/2020	0.01ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-6	0.01	n/a	3/31/2020	0.00085	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-7	0.01	n/a	3/30/2020	0.00041	No	30	n/a	n/a	83.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-8	0.01	n/a	3/27/2020	0.01ND	No	31	n/a	n/a	90.32	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.01ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-1	0.01	n/a	3/26/2020	0.00049	No	32	n/a	n/a	68.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-11	0.01	n/a	3/26/2020	0.00063	No	32	n/a	n/a	62.5	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-2	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-3	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-4	0.01	n/a	3/26/2020	0.00082	No	32	n/a	n/a	68.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-10	0.0025	n/a	3/27/2020	0.00082	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-21	0.01	n/a	3/31/2020	0.0019	No	30	n/a	n/a	63.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-23	0.01	n/a	3/26/2020	0.00035	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-7	0.08032	n/a	3/30/2020	0.012	No	17	0.03376	0.01735	0	None	No	0.0002926	Param Intra 1 of 2
Cobalt (mg/L)	GWC-8	0.01	n/a	3/27/2020	0.0016	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.00063	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-11	0.005	n/a	3/26/2020	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.005	n/a	3/26/2020	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-3	0.025	n/a	3/26/2020	0.00022	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-4	0.0066	n/a	3/26/2020	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-10	0.025	n/a	3/27/2020	0.00022	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-18	0.005	n/a	3/30/2020	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-19	0.005	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-20	0.005	n/a	3/31/2020	0.005ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-21	0.025	n/a	3/31/2020	0.00082	No	25	n/a	n/a	76	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-22	0.025	n/a	3/31/2020	0.0002	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-23	0.025	n/a	3/26/2020	0.00067	No	27	n/a	n/a	85.19	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.025	n/a	3/31/2020	0.00019	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.005	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-7	0.016	n/a	3/30/2020	0.005ND	No	25	n/a	n/a	80	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-8	0.005	n/a	3/27/2020	0.005ND	No	26	n/a	n/a	100	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-9	0.005	n/a	3/27/2020	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-11	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-3	0.005	n/a	3/26/2020	0.000047	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-10	0.005	n/a	3/27/2020	0.000054	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-19	0.005	n/a	3/31/2020	0.000061	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.005	n/a	3/31/2020	0.005ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.005	n/a	3/31/2020	0.005ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.005	n/a	3/31/2020	0.00013	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-23	0.005	n/a	3/26/2020	0.00016	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-6	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-7	0.005	n/a	3/30/2020	0.000048	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-8	0.005	n/a	3/27/2020	0.005ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-1	0.01	n/a	3/26/2020	0.00065	No	27	n/a	n/a	85.19	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2



# State Parameter Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 5/28/2020, 4:08 PM

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-11	0.01	n/a	3/26/2020	0.002	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.005	n/a	3/26/2020	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-3	0.01	n/a	3/26/2020	0.0011	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-4	0.01	n/a	3/26/2020	0.00096	No	27	n/a	n/a	59.26	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-10	0.01	n/a	3/27/2020	0.0023	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-18	0.01	n/a	3/30/2020	0.00048	No	27	n/a	n/a	85.19	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-19	0.0062	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-20	0.005	n/a	3/31/2020	0.005ND	No	26	n/a	n/a	92.31	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-21	0.01035	n/a	3/31/2020	0.0039	No	26	0.1566	0.02496	23.08	Kaplan-Meier	x^(1/3)	0.0002926	Param Intra 1 of 2
Nickel (mg/L)	GWC-22	0.005	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-23	0.01	n/a	3/26/2020	0.001	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5	0.01	n/a	3/31/2020	0.0013	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-6	0.005	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-7	0.3321	n/a	3/30/2020	0.037	No	12	0.133	0.06625	0	None	No	0.0002926	Param Intra 1 of 2
Nickel (mg/L)	GWC-8	0.01	n/a	3/27/2020	0.00053	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.0022	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-4	0.01	n/a	3/26/2020	0.01ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-10	0.01	n/a	3/27/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.01	n/a	3/31/2020	0.01ND	No	30	n/a	n/a	93.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.01	n/a	3/31/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-21	0.005	n/a	3/31/2020	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-7	0.001	n/a	3/30/2020	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.01	n/a	3/31/2020	0.01ND	No	25	n/a	n/a	92	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-23	0.01	n/a	3/26/2020	0.01ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5	0.01	n/a	3/31/2020	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-7	0.01	n/a	3/30/2020	0.01ND	No	26	n/a	n/a	80.77	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-1	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-11	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-3	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	55.56	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-4	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	33.33	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-10	0.02	n/a	3/27/2020	0.02ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-18	0.02	n/a	3/30/2020	0.02ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-19	0.02	n/a	3/31/2020	0.02ND	No	27	n/a	n/a	59.26	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-20	0.02	n/a	3/31/2020	0.02ND	No	26	n/a	n/a	80.77	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-21	0.02	n/a	3/31/2020	0.02ND	No	25	n/a	n/a	12	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.02	n/a	3/31/2020	0.02ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-23	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	55.56	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5	0.02	n/a	3/31/2020	0.02ND	No	27	n/a	n/a	55.56	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-6	0.02	n/a	3/31/2020	0.02ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-7	0.6123	n/a	3/30/2020	0.051	No	12	0.2426	0.123	0	None	No	0.0002926	Param Intra 1 of 2
Zinc (mg/L)	GWC-8	0.02	n/a	3/27/2020	0.02ND	No	26	n/a	n/a	73.08	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-9	0.02	n/a	3/27/2020	0.02ND	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

# Trend Test Summary (State) - Significant Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/12/2020, 2:39 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>
Barium (mg/L)	GWA-2 (bg)	0.004101	314	184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3 (bg)	-0.004717	-334	-184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	-0.00353	-218	-184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.002061	281	176	Yes	34	0	n/a	n/a	0.01	NP

# Trend Test Summary (State) - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/12/2020, 2:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1 (bg)	-0.00005409	-31	-184	No	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-11 (bg)	-0.0001551	-95	-184	No	35	0	n/a	n/a	0.01	NP
<b>Barium (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.004101</b>	<b>314</b>	<b>184</b>	<b>Yes</b>	<b>35</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Barium (mg/L)	GWA-3 (bg)	-0.004717	-334	-184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	-0.00353	-218	-184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.002061	281	176	Yes	34	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-8	0.0003024	47	184	No	35	0	n/a	n/a	0.01	NP

# Federal Intrawell Prediction Limit Summary - Significant Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 7:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-19	49.63	n/a	3/31/2020	52.3	Yes	13	43.91	2.178	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-20	63.52	n/a	3/31/2020	63.6	Yes	13	52.64	4.139	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-7	2.458	n/a	3/30/2020	9.2	Yes	13	1.654	0.3056	0	None	No	0.0006269	Param Intra 1 of 2
pH (s.u.)	GWC-10	7.697	6.845	3/27/2020	6.82	Yes	13	7.271	0.162	0	None	No	0.0003135	Param Intra 1 of 2

# Federal Intrawell Prediction Limit Summary - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 7:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWA-1	0.05	n/a	3/26/2020	0.022J	No	13	n/a	n/a	15.38	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Boron (mg/L)	GWA-11	0.04165	n/a	3/26/2020	0.041J	No	13	0.0356	0.002301	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWA-2	0.1059	n/a	3/26/2020	0.092J	No	13	0.08618	0.007513	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWA-3	0.195	n/a	3/26/2020	0.14	No	13	0.1502	0.01706	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWA-4	0.1507	n/a	3/26/2020	0.086J	No	13	0.09276	0.02204	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-10	0.04348	n/a	3/27/2020	0.04J	No	13	0.03321	0.003909	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-18	0.1547	n/a	3/30/2020	0.13	No	13	0.1292	0.009697	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-19	0.2048	n/a	3/31/2020	0.18	No	13	0.1773	0.01047	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-20	0.05	n/a	3/31/2020	0.024J	No	13	n/a	n/a	7.692	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Boron (mg/L)	GWC-21	0.1406	n/a	3/31/2020	0.022J	No	13	0.199	0.06698	0	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-22	0.08272	n/a	3/31/2020	0.067J	No	13	0.06841	0.005445	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-23	0.1347	n/a	3/26/2020	0.042J	No	13	0.191	0.067	7.692	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-5	0.08013	n/a	3/31/2020	0.057J	No	13	0.05944	0.007872	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-6	0.04531	n/a	3/31/2020	0.091J	No	14	0.03949	0.002264	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-7	0.07265	n/a	3/30/2020	0.049J	No	13	0.05612	0.006289	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-8	0.055	n/a	3/27/2020	0.056J	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Boron (mg/L)	GWC-9	0.05	n/a	3/27/2020	0.018J	No	13	n/a	n/a	7.692	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Calcium (mg/L)	GWA-1	20.51	n/a	3/26/2020	14	No	13	15.95	1.735	7.692	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWA-11	27.27	n/a	3/26/2020	22.4	No	13	19.82	2.834	7.692	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWA-2	51.4	n/a	3/26/2020	43.2	No	13	41.93	3.601	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWA-3	94.16	n/a	3/26/2020	78.7	No	13	75.85	6.964	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWA-4	130.7	n/a	3/26/2020	87.4	No	13	88.18	16.18	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-10	60.36	n/a	3/27/2020	22.9	No	15	41.41	7.541	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-18	46.36	n/a	3/30/2020	45.7	No	14	40.09	2.439	0	None	No	0.0006269	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GWC-19</b>	<b>49.63</b>	<b>n/a</b>	<b>3/31/2020</b>	<b>52.3</b>	<b>Yes</b>	<b>13</b>	<b>43.91</b>	<b>2.178</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>GWC-20</b>	<b>63.52</b>	<b>n/a</b>	<b>3/31/2020</b>	<b>63.6</b>	<b>Yes</b>	<b>13</b>	<b>52.64</b>	<b>4.139</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GWC-21	95.47	n/a	3/31/2020	25.6	No	15	48.65	18.63	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-22	52.66	n/a	3/31/2020	51.5	No	13	47.68	1.891	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-23	45.95	n/a	3/26/2020	44.7	No	13	36.75	3.5	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-5	90.26	n/a	3/31/2020	84.2	No	13	73.43	6.404	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-6	71.95	n/a	3/31/2020	70.6	No	13	62.28	3.678	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-7	74.21	n/a	3/30/2020	47.8	No	13	36.61	14.31	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-8	90.82	n/a	3/27/2020	87.3	No	15	63.08	11.04	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-9	39.77	n/a	3/27/2020	34.3	No	13	35.16	1.751	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-1	1.55	n/a	3/26/2020	1.1	No	13	1.179	0.1409	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-11	2.158	n/a	3/26/2020	1.4	No	13	1.493	0.253	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-2	3.162	n/a	3/26/2020	2	No	13	2.431	0.2783	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-3	4.883	n/a	3/26/2020	2.6	No	13	3.95	0.3552	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-4	11.19	n/a	3/26/2020	5.4	No	13	6.268	1.874	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-10	2.285	n/a	3/27/2020	1.2	No	15	1.609	0.269	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-18	1.907	n/a	3/30/2020	1	No	13	1.385	0.1987	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-19	2.57	n/a	3/31/2020	1.3	No	13	1.915	0.2492	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-20	2.396	n/a	3/31/2020	1.1	No	14	1.7	0.2708	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-21	3.962	n/a	3/31/2020	1.5	No	14	2.712	0.4862	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-22	2.011	n/a	3/31/2020	1	No	13	1.555	0.1736	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-23	2.104	n/a	3/26/2020	0.63J	No	13	1.552	0.2101	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-5	4.279	n/a	3/31/2020	2	No	13	3.029	0.4757	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-6	2.458	n/a	3/31/2020	1.5	No	13	1.955	0.1913	0	None	No	0.0006269	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GWC-7</b>	<b>2.458</b>	<b>n/a</b>	<b>3/30/2020</b>	<b>9.2</b>	<b>Yes</b>	<b>13</b>	<b>1.654</b>	<b>0.3056</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GWC-8	3.306	n/a	3/27/2020	2.5	No	15	1.936	0.545	0	None	No	0.0006269	Param Intra 1 of 2

# Federal Intrawell Prediction Limit Summary - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 7:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GWC-9	1.823	n/a	3/27/2020	0.74J	No	13	1.195	0.239	0	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-1	0.2142	n/a	3/26/2020	0.082J	No	13	0.1055	0.04138	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-11	0.1844	n/a	3/26/2020	0.057J	No	13	0.07757	0.04064	23.08	Kaplan-Meier	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-2	0.267	n/a	3/26/2020	0.12J	No	13	0.1289	0.05253	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-3	0.5357	n/a	3/26/2020	0.09J	No	13	0.2393	0.1127	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-4	0.5087	n/a	3/26/2020	0.089J	No	13	0.2241	0.1082	0	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-10	0.2027	n/a	3/27/2020	0.15ND	No	13	0.1064	0.03664	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-18	0.2327	n/a	3/30/2020	0.1J	No	13	0.1467	0.03273	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-19	0.2758	n/a	3/31/2020	0.099J	No	13	0.1547	0.04606	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-20	0.2054	n/a	3/31/2020	0.054J	No	13	0.09322	0.0427	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-21	0.252	n/a	3/31/2020	0.15ND	No	13	0.09554	0.05953	15.38	Kaplan-Meier	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-22	0.1652	n/a	3/31/2020	0.055J	No	13	0.09188	0.0279	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-23	0.1978	n/a	3/26/2020	0.064J	No	13	0.1127	0.03238	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-5	0.4044	n/a	3/31/2020	0.15ND	No	13	0.4643	0.1047	15.38	Kaplan-Meier	x^(1/3)	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-6	0.3208	n/a	3/31/2020	0.053J	No	13	0.1139	0.07868	15.38	Kaplan-Meier	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-7	0.548	n/a	3/30/2020	0.16J	No	13	0.2598	0.1097	0	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-8	0.4854	n/a	3/27/2020	0.12J	No	14	0.4306	0.1035	0	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-9	0.1929	n/a	3/27/2020	0.078J	No	13	0.09607	0.03684	7.692	None	No	0.0006269	Param Intra 1 of 2
pH (s.u.)	GWA-1	7.414	6.463	3/26/2020	7.02	No	13	6.938	0.1807	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWA-11	7.075	6.309	3/26/2020	6.83	No	13	6.692	0.1457	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWA-2	7.273	6.46	3/26/2020	7.07	No	13	6.867	0.1547	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWA-3	7.238	6.227	3/26/2020	6.87	No	13	6.732	0.1922	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWA-4	7.246	6.263	3/26/2020	6.74	No	13	6.755	0.1869	0	None	No	0.0003135	Param Intra 1 of 2
<b>pH (s.u.)</b>	<b>GWC-10</b>	<b>7.697</b>	<b>6.845</b>	<b>3/27/2020</b>	<b>6.82</b>	<b>Yes</b>	<b>13</b>	<b>7.271</b>	<b>0.162</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0003135</b>	<b>Param Intra 1 of 2</b>
pH (s.u.)	GWC-18	7.781	7.39	3/30/2020	7.65	No	13	7.585	0.07423	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-19	7.732	7.179	3/31/2020	7.62	No	13	7.455	0.1052	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-20	7.588	6.958	3/31/2020	7.57	No	15	7.273	0.1253	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-21	7.759	5.557	3/31/2020	6.33	No	13	6.658	0.4189	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-22	7.968	7.278	3/31/2020	7.8	No	14	7.623	0.1341	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-23	7.564	6.735	3/26/2020	6.88	No	13	7.149	0.1578	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-5	7.288	6.348	3/31/2020	6.82	No	13	6.818	0.1788	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-6	7.369	6.632	3/31/2020	7.17	No	13	7.001	0.1401	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-7	6.623	5.502	3/30/2020	6.48	No	13	6.062	0.2132	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-8	7.808	6.743	3/27/2020	7.01	No	15	7.275	0.2119	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-9	7.362	6.212	3/27/2020	7.11	No	13	6.787	0.2186	0	None	No	0.0003135	Param Intra 1 of 2
Sulfate (mg/L)	GWA-1	5.454	n/a	3/26/2020	5	No	13	4.79	0.2524	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWA-11	15.5	n/a	3/26/2020	10.8	No	13	12.58	1.108	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWA-2	20.34	n/a	3/26/2020	15.6	No	13	14.94	2.053	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWA-3	231.1	n/a	3/26/2020	95.8	No	13	131.7	37.85	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWA-4	348.3	n/a	3/26/2020	128	No	13	192.8	59.18	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-10	46.25	n/a	3/27/2020	10.8	No	14	4.162	1.026	0	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-18	14.99	n/a	3/30/2020	9.7	No	13	10.94	1.541	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-19	20.78	n/a	3/31/2020	17.8	No	13	16.18	1.748	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-20	58.56	n/a	3/31/2020	53.6	No	18	35.78	9.504	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-21	57.26	n/a	3/31/2020	29.9	No	13	30.96	10.01	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-22	14	n/a	3/31/2020	10.9	No	13	7.792	2.363	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-23	43	n/a	3/26/2020	14.5	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GWC-5	159.3	n/a	3/31/2020	92.6	No	13	9.222	1.293	0	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-6	150.6	n/a	3/31/2020	106	No	17	109.2	17.06	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-7	189.7	n/a	3/30/2020	64.6	No	13	114.7	28.53	0	None	No	0.0006269	Param Intra 1 of 2

# Federal Intrawell Prediction Limit Summary - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 7:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWC-8	62.67	n/a	3/27/2020	31.5	No	13	42.48	7.682	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-9	85.53	n/a	3/27/2020	54	No	14	69.87	6.092	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-1	175.9	n/a	3/26/2020	73	No	13	105.2	26.93	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-11	186	n/a	3/26/2020	76	No	13	128.5	21.88	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-2	274.9	n/a	3/26/2020	222	No	13	220.5	20.67	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-3	682.3	n/a	3/26/2020	450	No	13	7.827	0.3714	0	None	x^(1/3)	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-4	772.9	n/a	3/26/2020	466	No	13	531.9	91.69	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-10	281.6	n/a	3/27/2020	118	No	13	184.1	37.09	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-18	427	n/a	3/30/2020	217	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-19	393	n/a	3/31/2020	233	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	306.2	n/a	3/31/2020	267	No	13	229.2	29.3	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	417.6	n/a	3/31/2020	111	No	15	203.2	85.29	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	324	n/a	3/31/2020	195	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-23	313.1	n/a	3/26/2020	193	No	13	197.3	44.03	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-5	520.9	n/a	3/31/2020	408	No	13	395	47.9	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-6	439.1	n/a	3/31/2020	349	No	15	333.5	42.03	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-7	369	n/a	3/30/2020	216	No	13	271.2	37.22	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-8	428.8	n/a	3/27/2020	329	No	15	269.7	63.28	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	326	n/a	3/27/2020	192	No	13	235.2	34.54	0	None	No	0.0006269	Param Intra 1 of 2

# Trend Test Summary (Federal) - Significant Results

Plant Hammond    Client: Southern Company    Data: Huffaker Road Landfill    Printed 8/13/2020, 8:30 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
<b>Boron (mg/L)</b>	<b>GWC-8</b>	<b>0.007378</b>	<b>58</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (s.u.)</b>	<b>GWC-10</b>	<b>-0.1134</b>	<b>-51</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>



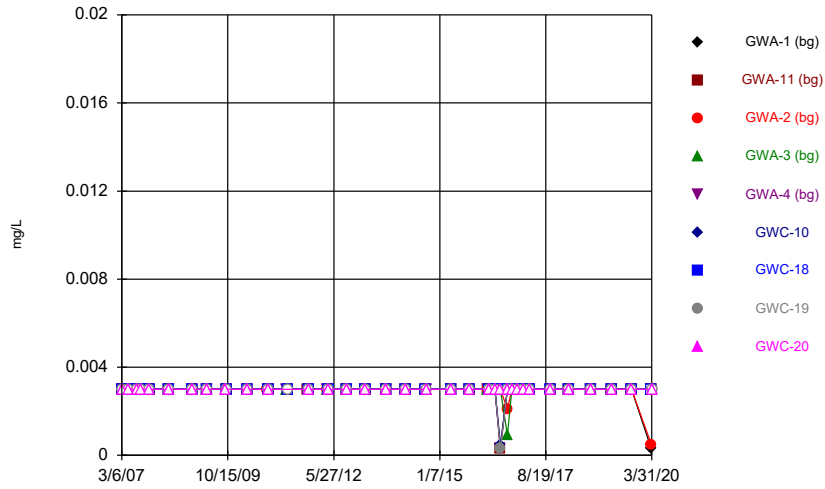
# Trend Test Summary (Federal) - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 8:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-1 (bg)	-0.00009786	-6	-48	No	14	14.29	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-11 (bg)	-0.00009643	-1	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	-0.001436	-15	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-3 (bg)	0.002072	4	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-4 (bg)	-0.003283	-13	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-6	0.001163	28	53	No	15	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GWC-8</b>	<b>0.007378</b>	<b>58</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GWA-1 (bg)	-0.03389	-4	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-11 (bg)	-0.08391	-4	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	-0.5958	-9	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-3 (bg)	0.7795	9	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-4 (bg)	-5.451	-27	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-19	0.1213	3	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	2.471	35	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-1 (bg)	0	8	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-11 (bg)	0.003456	8	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.07228	17	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-3 (bg)	-0.1718	-24	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-4 (bg)	-0.03551	-2	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-7	0.173	30	48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-1 (bg)	-0.0312	-8	-48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-11 (bg)	-0.03008	-9	-48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-2 (bg)	-0.04588	-15	-48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-3 (bg)	-0.01474	-6	-48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-4 (bg)	0.01813	17	48	No	14	0	n/a	n/a	0.01	NP
<b>pH (s.u.)</b>	<b>GWC-10</b>	<b>-0.1134</b>	<b>-51</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

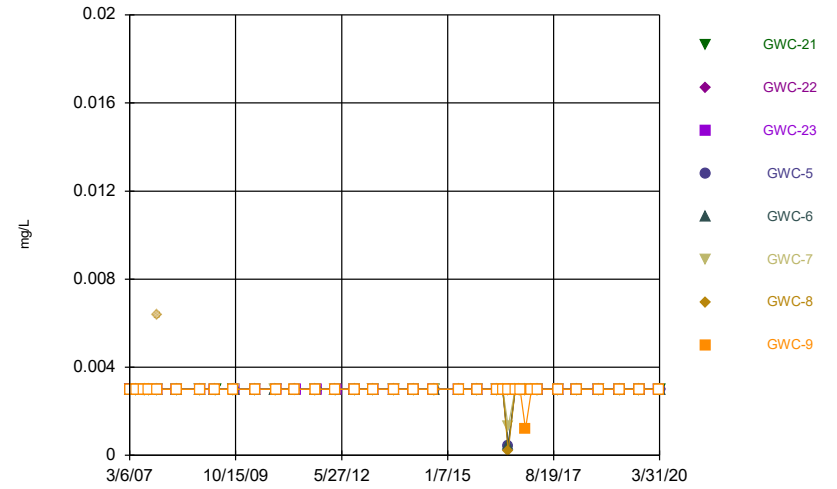
FIGURE A.

### Time Series



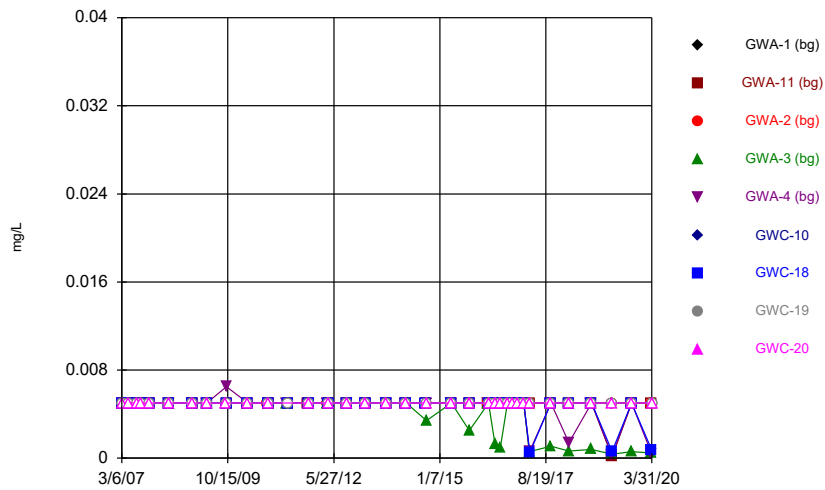
Constituent: Antimony Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



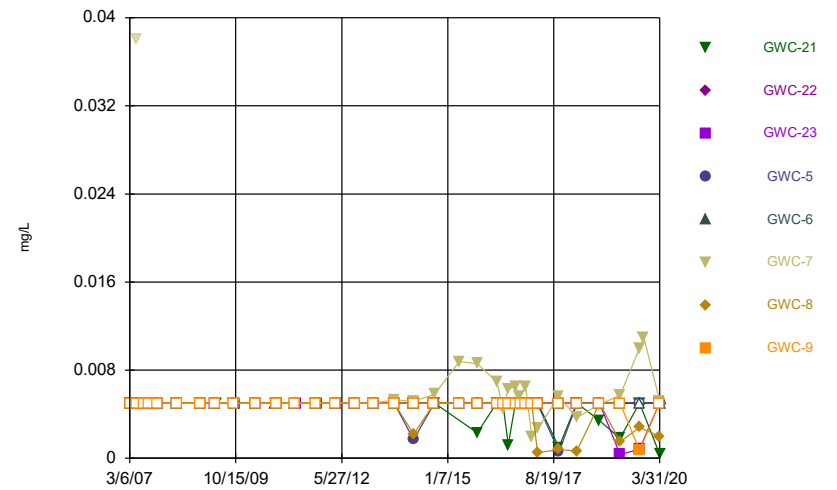
Constituent: Antimony Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



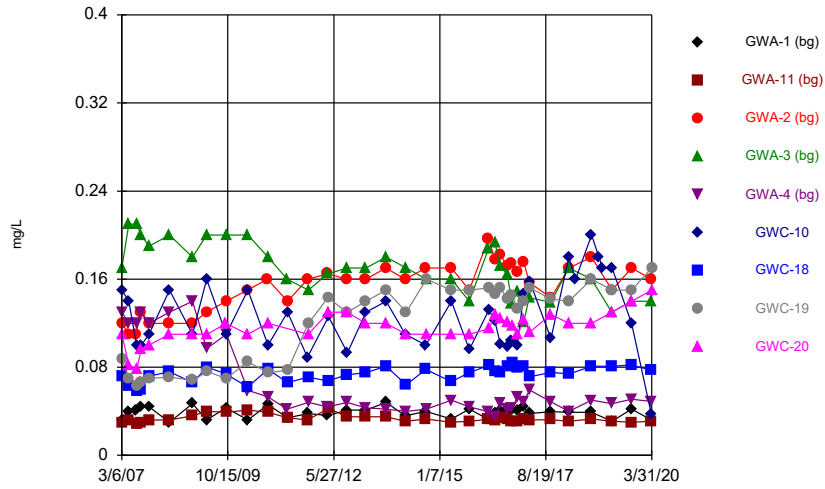
Constituent: Arsenic Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



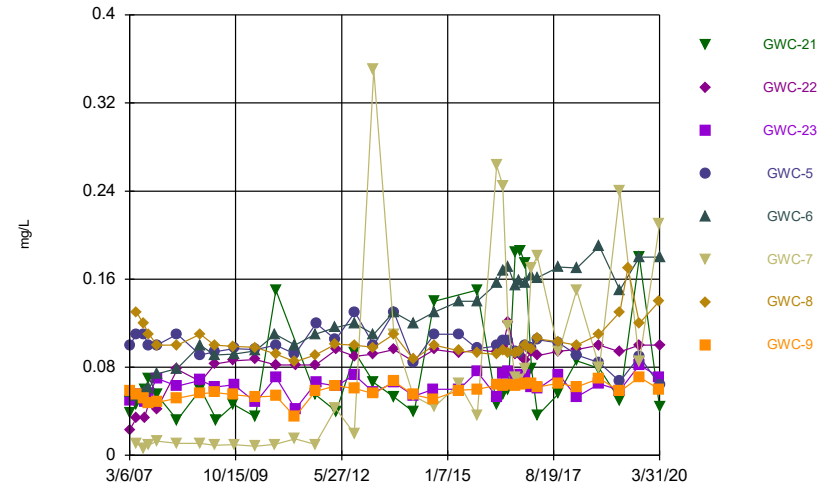
Constituent: Arsenic Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



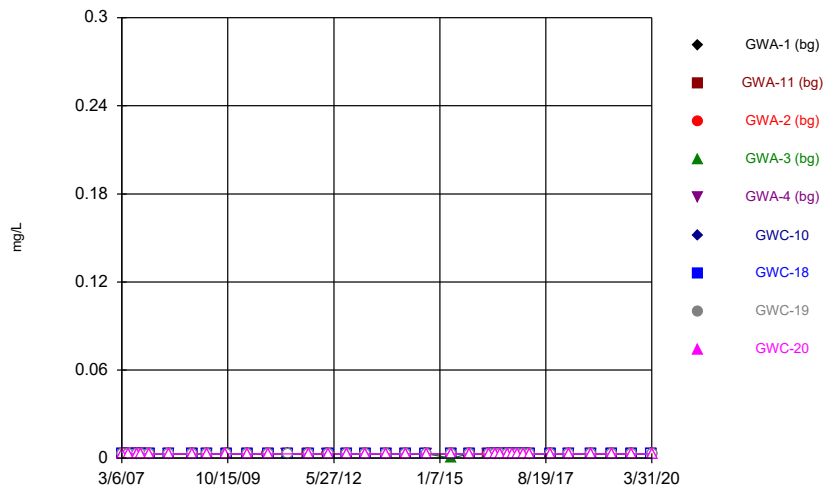
Constituent: Barium Analysis Run 6/12/2020 2:46 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



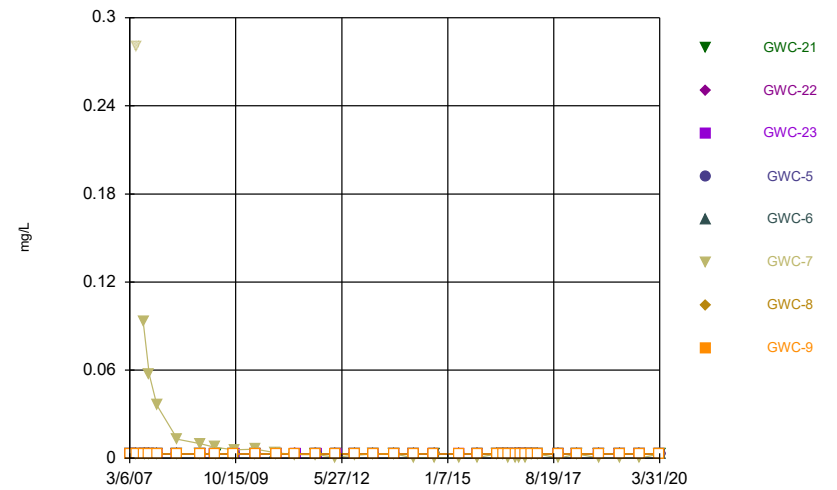
Constituent: Barium Analysis Run 6/12/2020 2:46 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



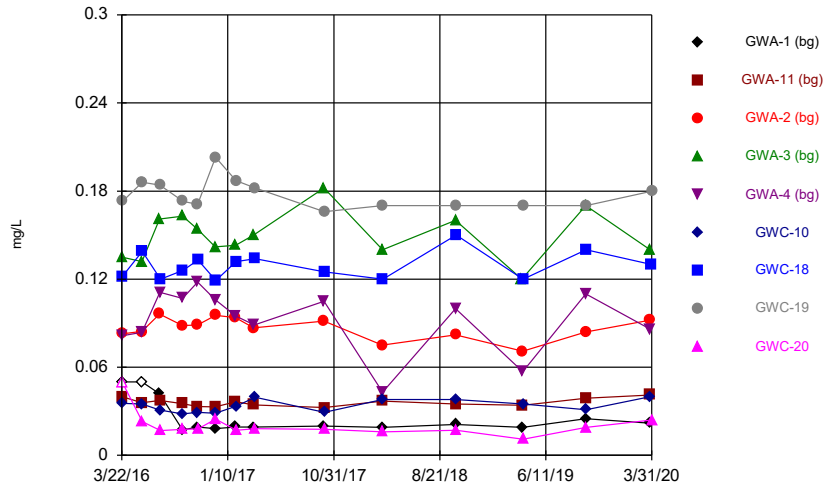
Constituent: Beryllium Analysis Run 6/12/2020 2:46 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



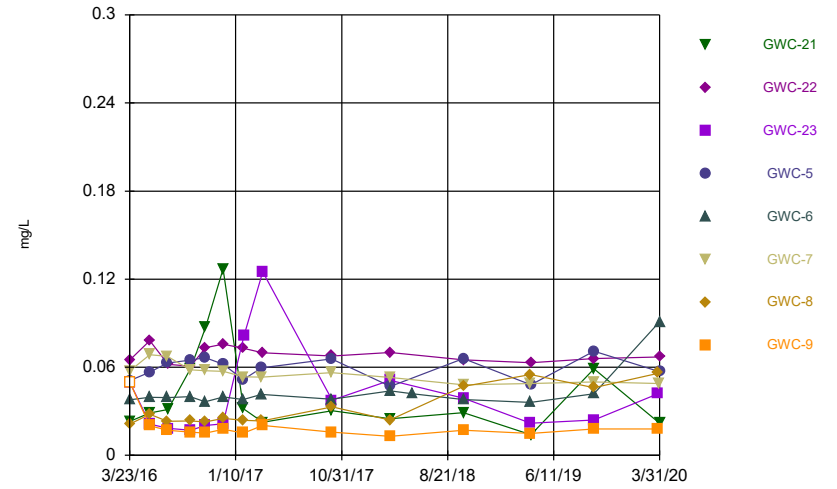
Constituent: Beryllium Analysis Run 6/12/2020 2:46 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



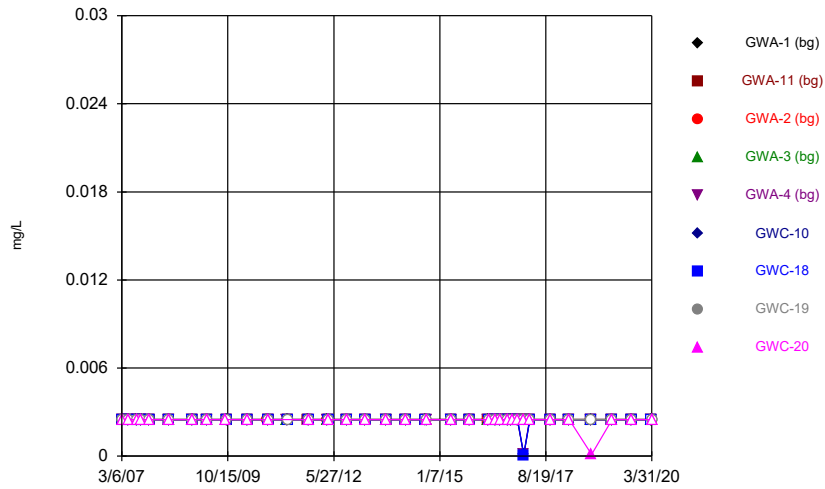
Constituent: Boron Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



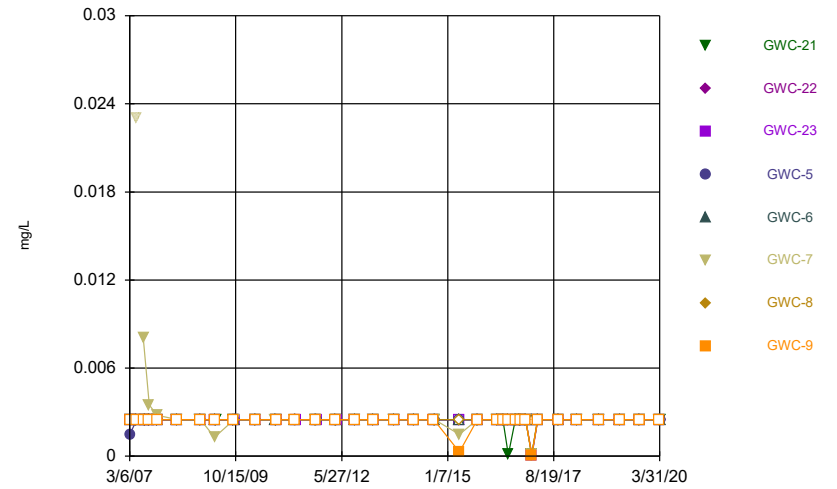
Constituent: Boron Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



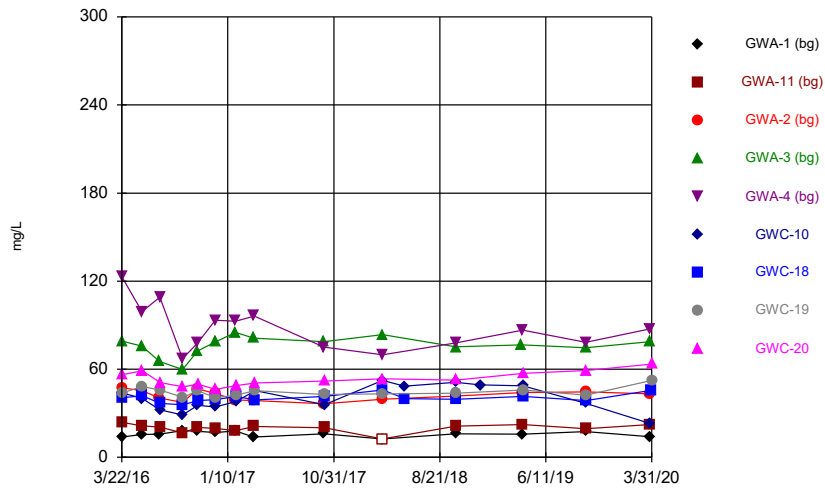
Constituent: Cadmium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



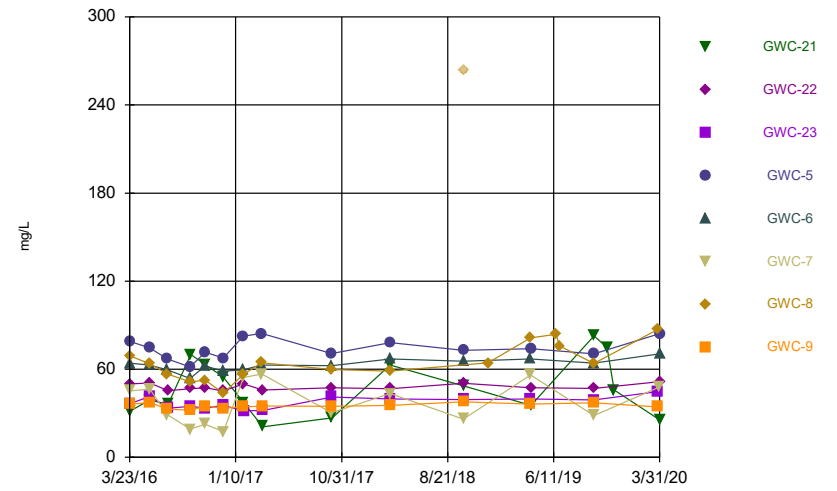
Constituent: Cadmium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



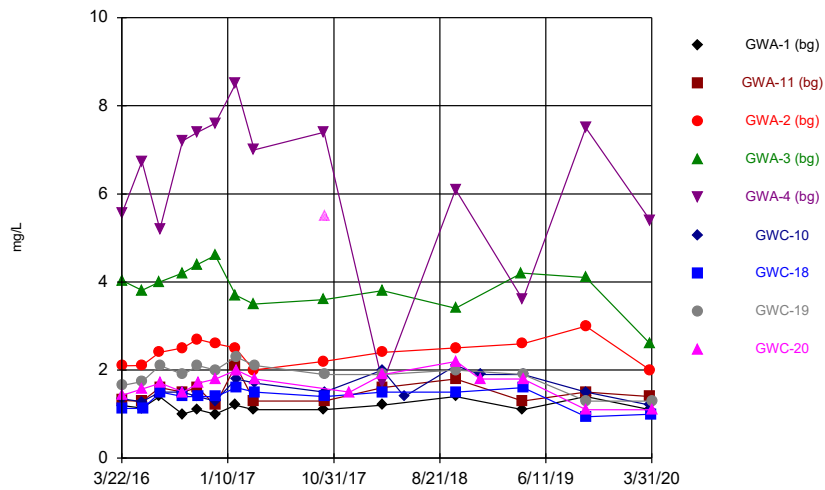
Constituent: Calcium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



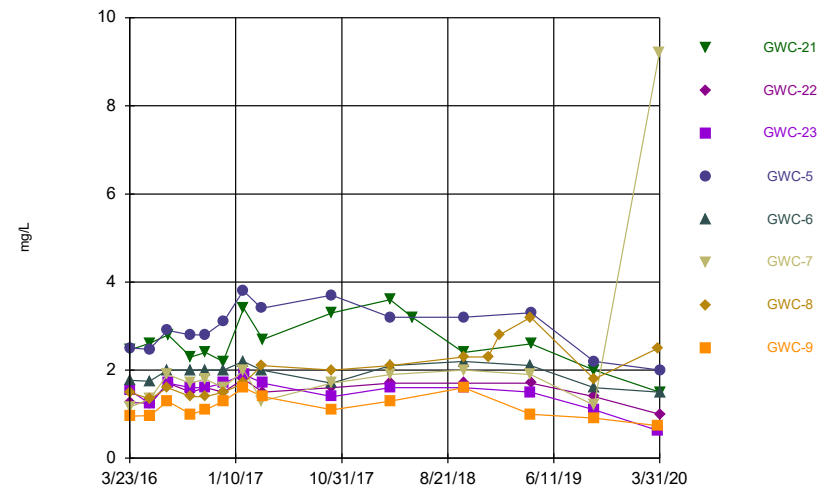
Constituent: Calcium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



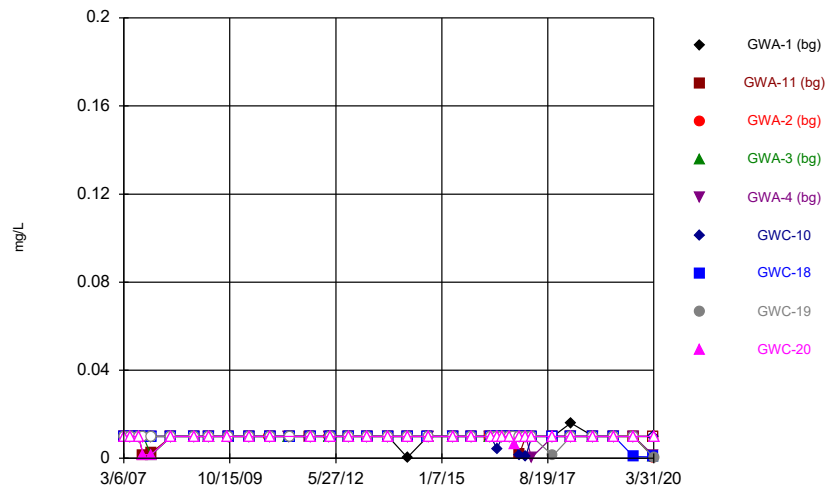
Constituent: Chloride Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



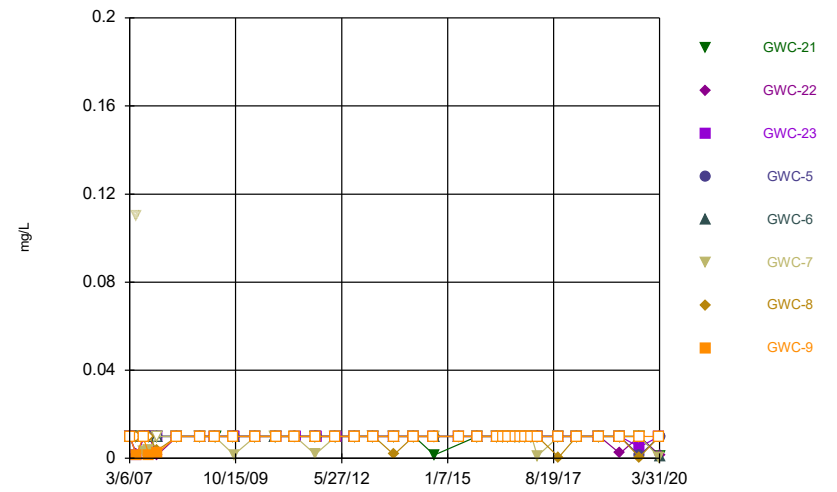
Constituent: Chloride Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



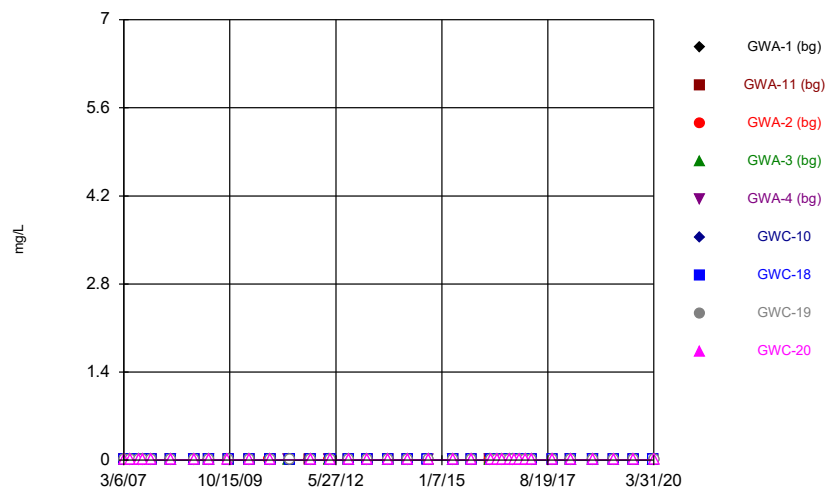
Constituent: Chromium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



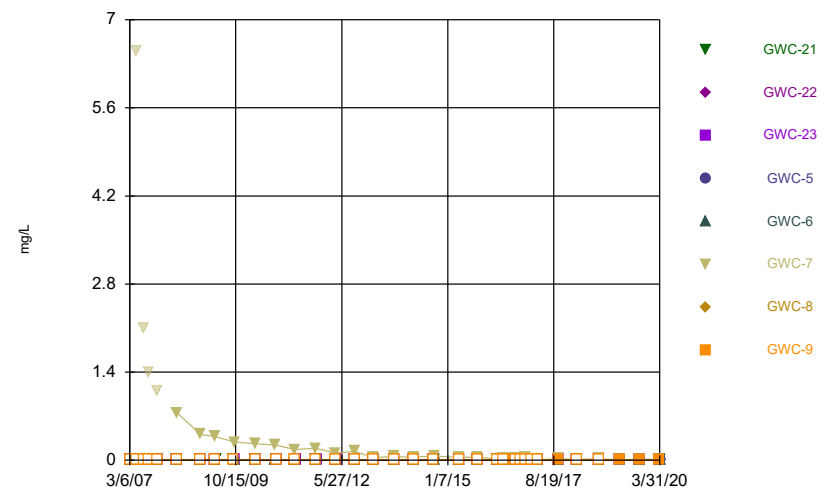
Constituent: Chromium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



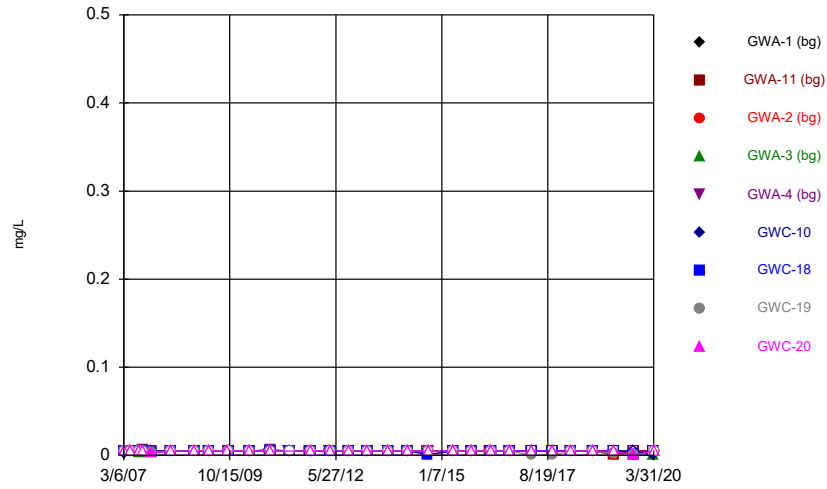
Constituent: Cobalt Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



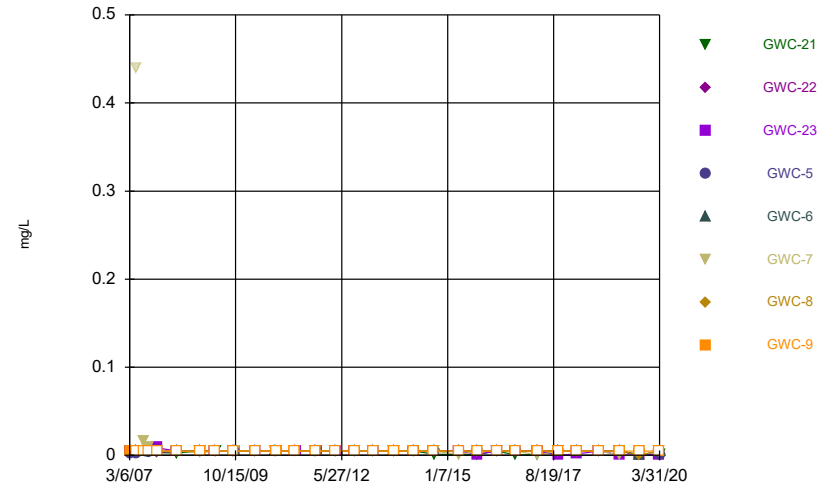
Constituent: Cobalt Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



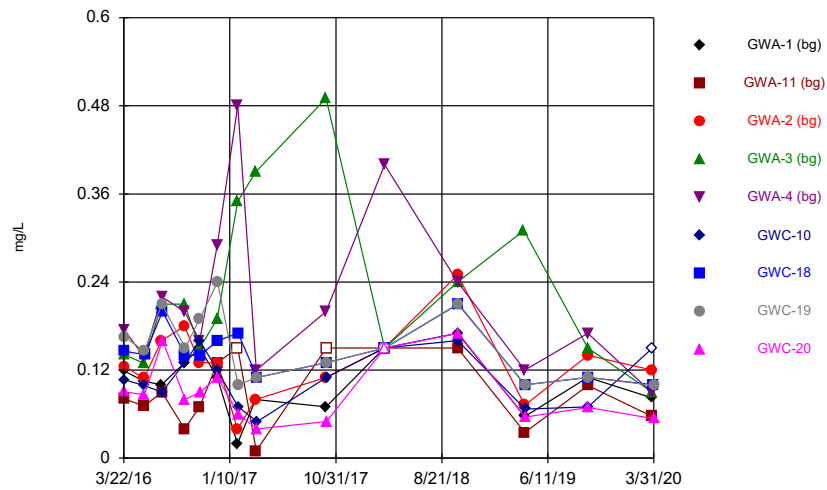
Constituent: Copper Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



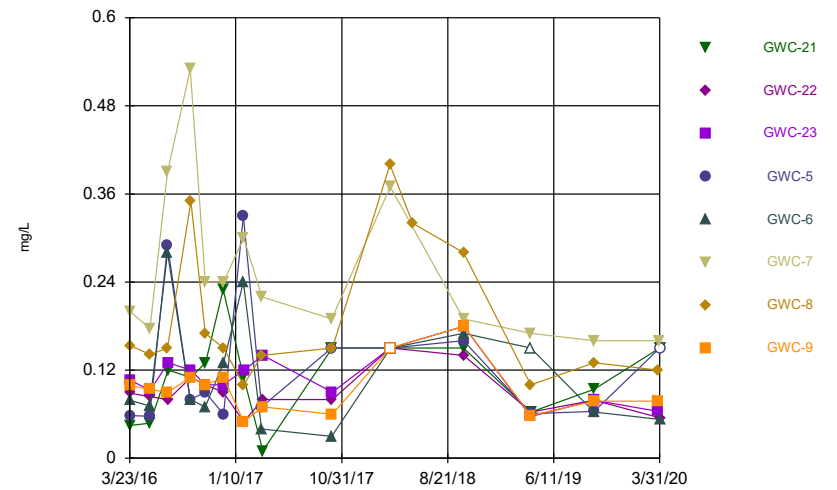
Constituent: Copper Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



Constituent: Fluoride Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

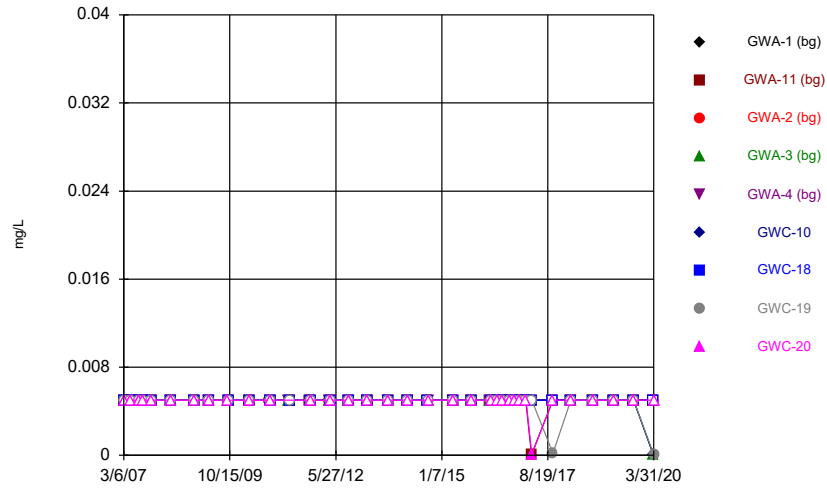
### Time Series



Constituent: Fluoride Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

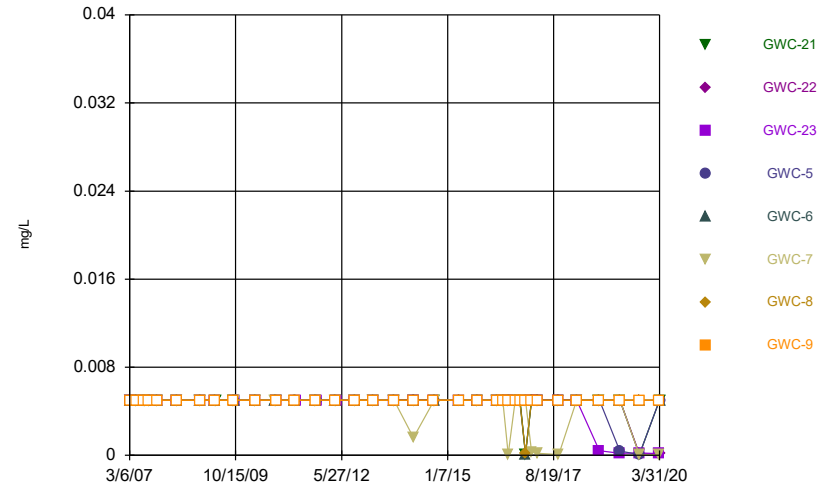


### Time Series



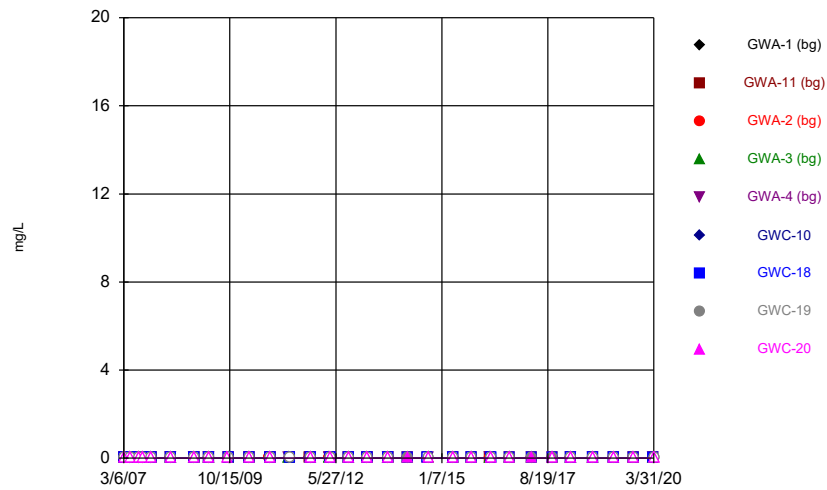
Constituent: Lead Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



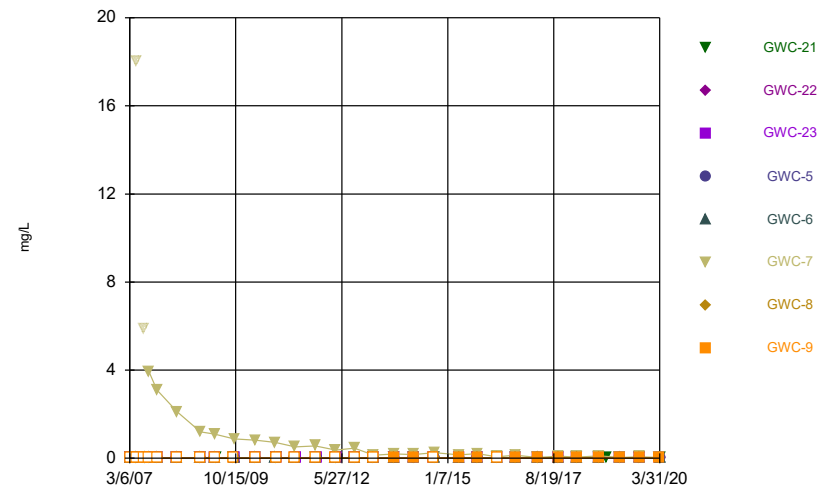
Constituent: Lead Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



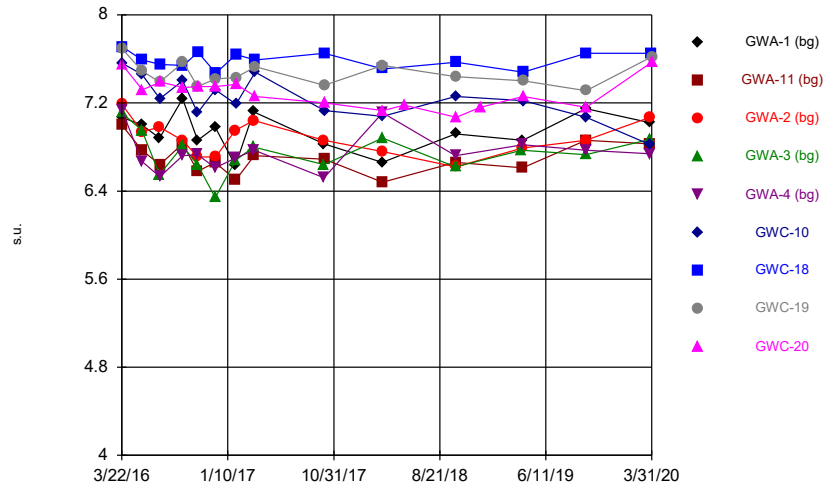
Constituent: Nickel Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



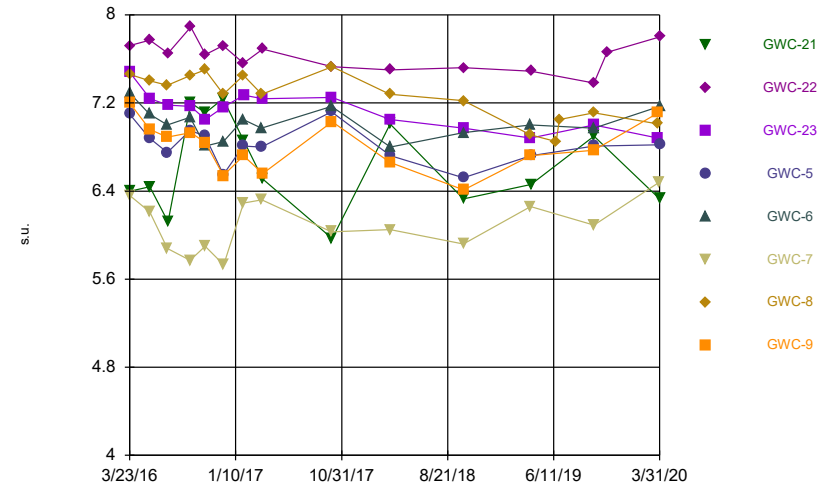
Constituent: Nickel Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



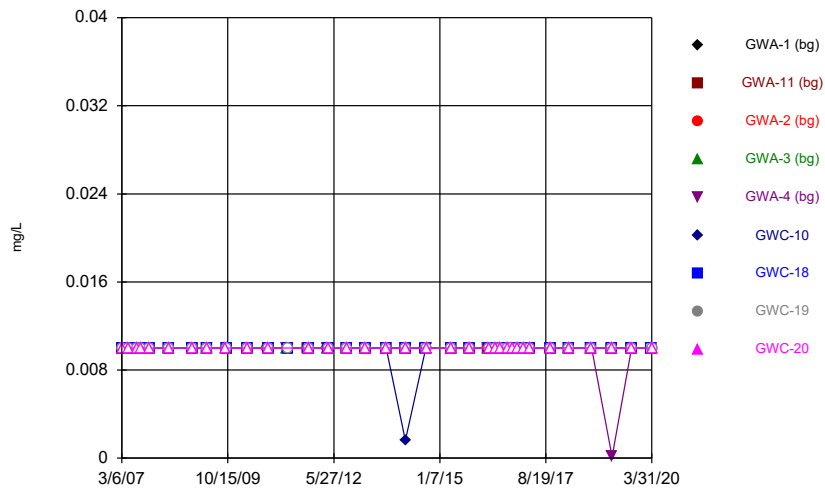
Constituent: pH Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



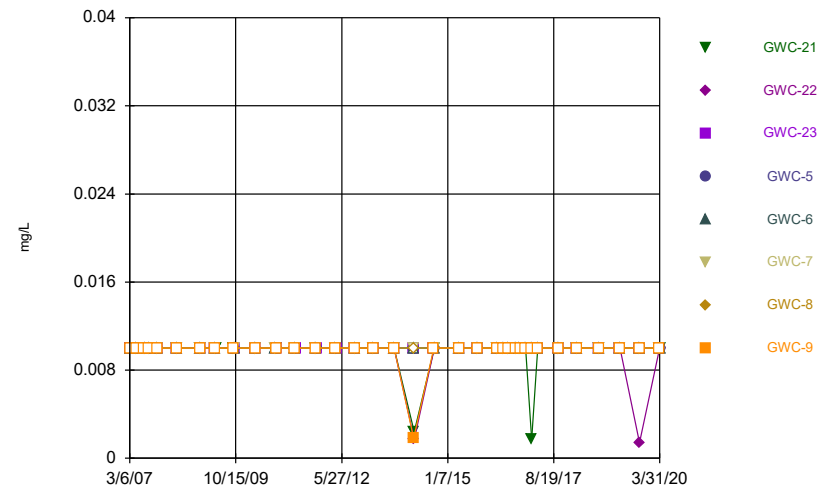
Constituent: pH Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



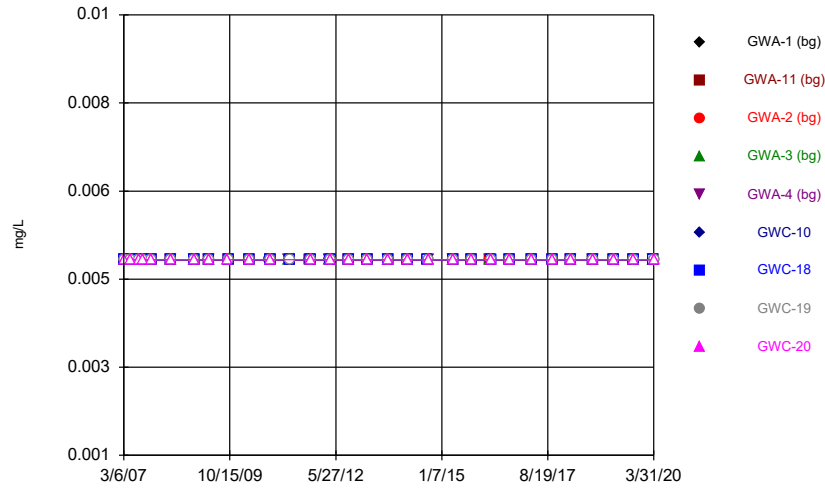
Constituent: Selenium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



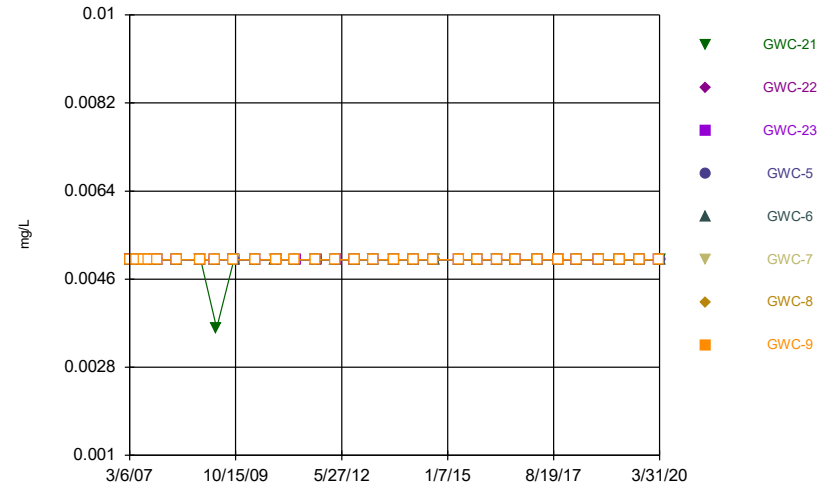
Constituent: Selenium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



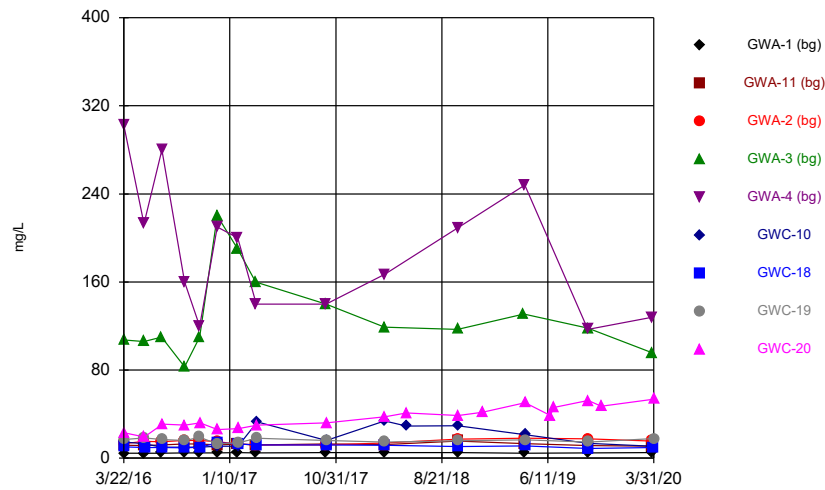
Constituent: Silver Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



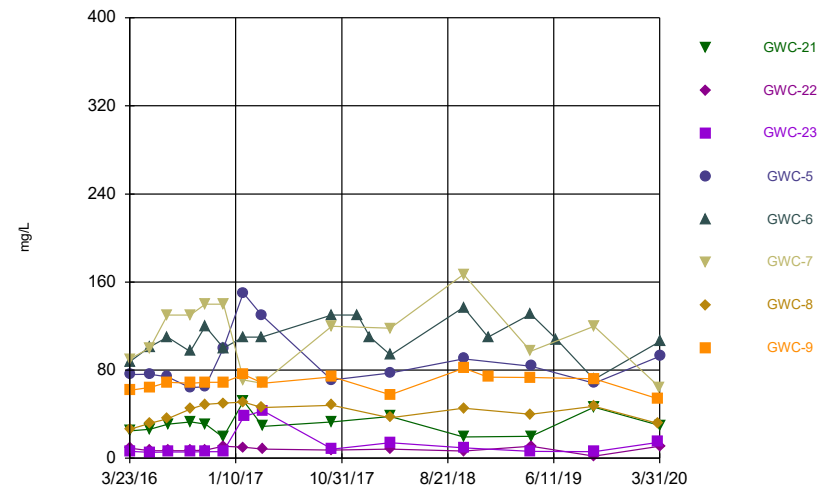
Constituent: Silver Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



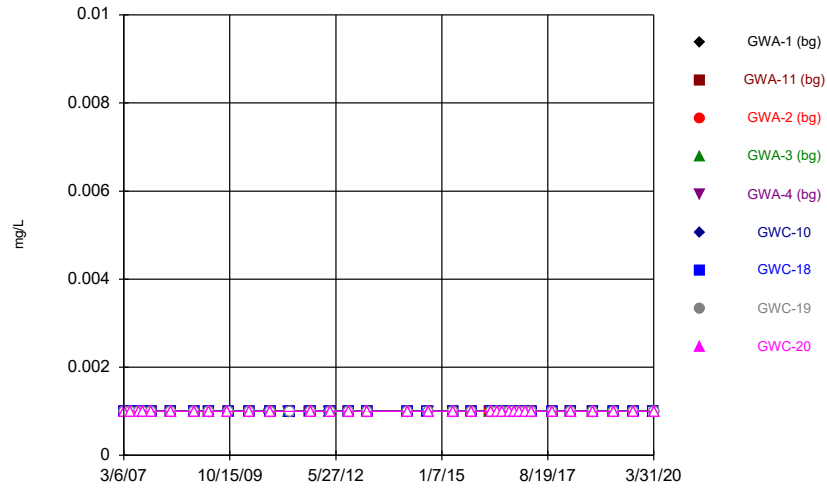
Constituent: Sulfate Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



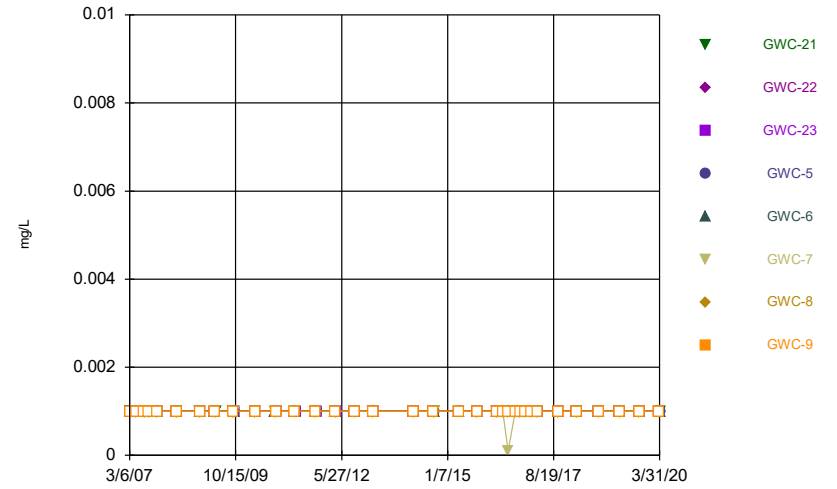
Constituent: Sulfate Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



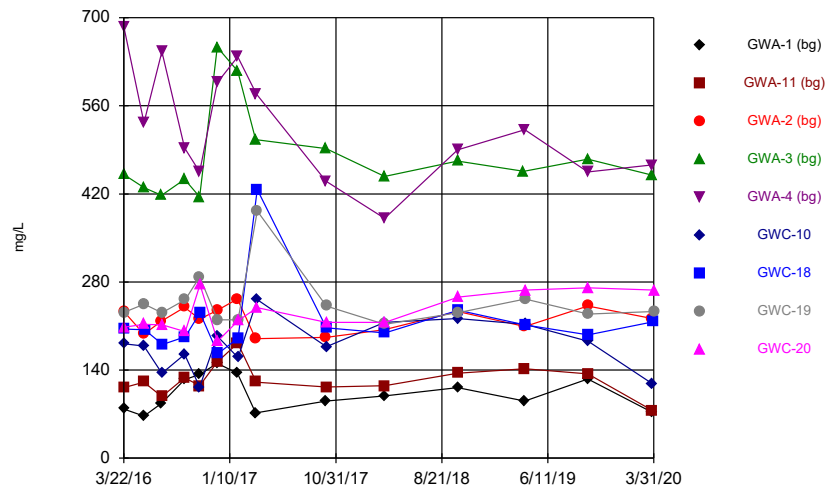
Constituent: Thallium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



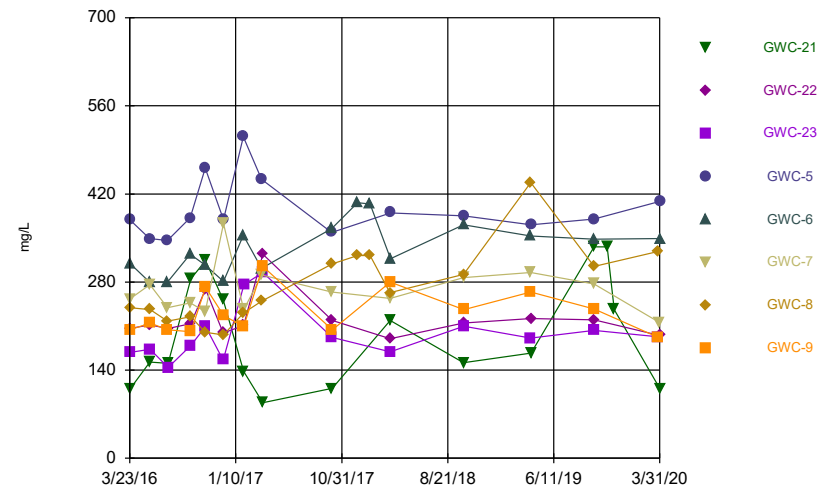
Constituent: Thallium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



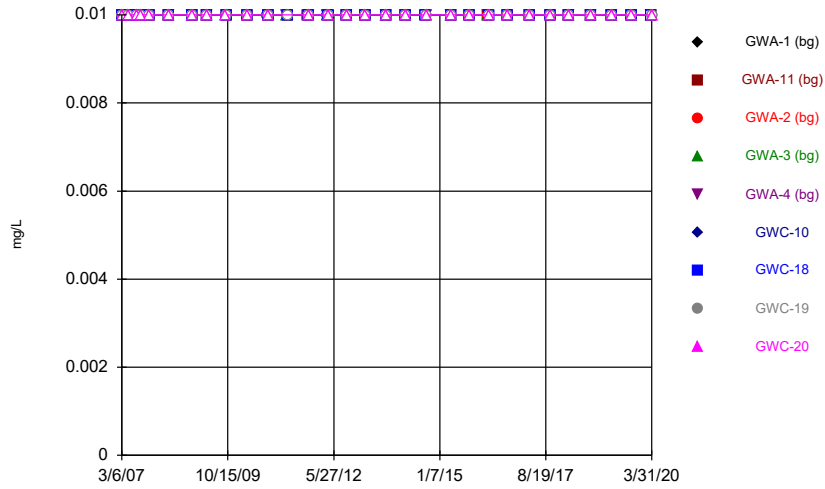
Constituent: Total Dissolved Solids Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Time Series



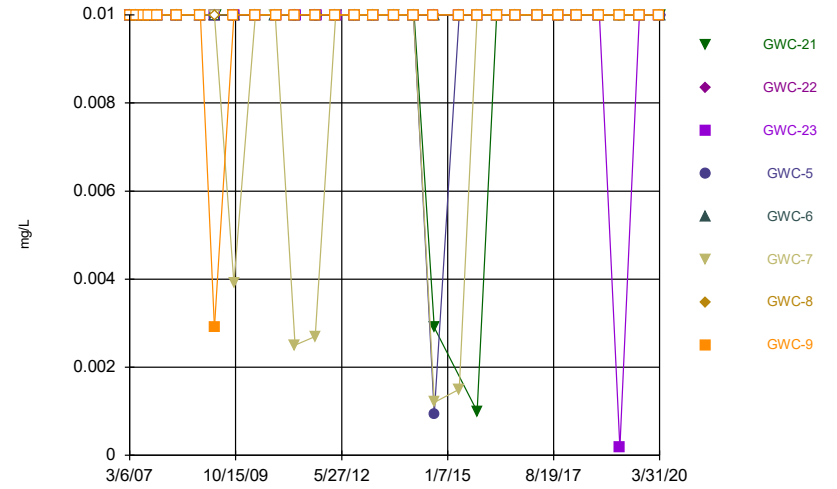
Constituent: Total Dissolved Solids Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



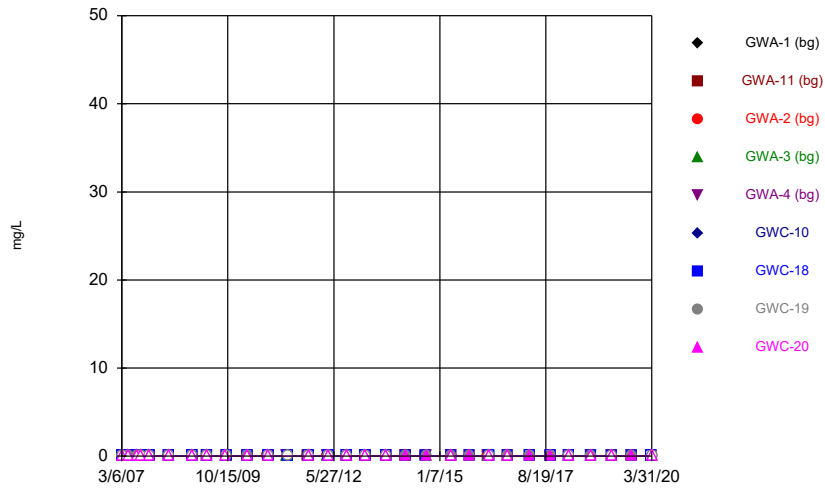
Constituent: Vanadium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



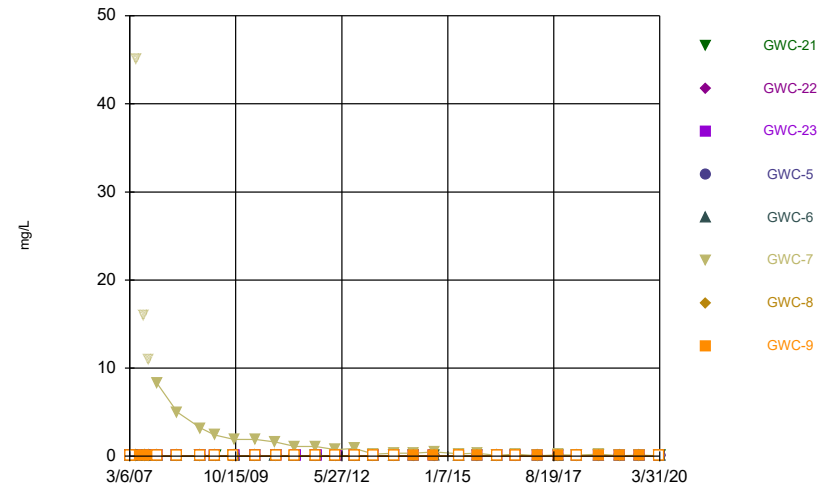
Constituent: Vanadium Analysis Run 6/12/2020 2:46 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



Constituent: Zinc Analysis Run 6/12/2020 2:47 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Time Series



Constituent: Zinc Analysis Run 6/12/2020 2:47 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.003		<0.003	<0.003	<0.003			<0.003	
3/7/2007		<0.003				<0.003	<0.003		<0.003
5/8/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
5/9/2007							<0.003	<0.003	<0.003
7/7/2007	<0.003		<0.003						
7/17/2007		<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/28/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
8/29/2007									<0.003
11/6/2007	<0.003		<0.003	<0.003	<0.003				
11/7/2007		<0.003				<0.003	<0.003	<0.003	<0.003
5/7/2008							<0.003	<0.003	<0.003
5/8/2008				<0.003	<0.003				
5/9/2008	<0.003	<0.003	<0.003			<0.003			
12/2/2008		<0.003				<0.003			
12/3/2008	<0.003		<0.003	<0.003	<0.003		<0.003		
12/4/2008								<0.003	
12/5/2008									<0.003
4/7/2009	<0.003		<0.003	<0.003	<0.003				
4/8/2009		<0.003				<0.003			
4/14/2009							<0.003	<0.003	<0.003
9/30/2009									<0.003
10/1/2009	<0.003	<0.003	<0.003			<0.003	<0.003		
10/2/2009				<0.003	<0.003			<0.003	
4/13/2010							<0.003	<0.003	<0.003
4/14/2010	<0.003	<0.003		<0.003	<0.003	<0.003			
10/7/2010			<0.003						
10/12/2010							<0.003	<0.003	<0.003
10/13/2010	<0.003	<0.003				<0.003			
10/14/2010				<0.003	<0.003				
4/5/2011				<0.003	<0.003				
4/6/2011	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003	
10/4/2011		<0.003				<0.003			
10/6/2011			<0.003						
10/10/2011	<0.003								
10/12/2011				<0.003	<0.003		<0.003	<0.003	<0.003
4/3/2012	<0.003		<0.003						
4/4/2012				<0.003	<0.003				
4/5/2012							<0.003	<0.003	
4/9/2012									<0.003
4/10/2012		<0.003				<0.003			
9/19/2012			<0.003				<0.003		
9/24/2012	<0.003				<0.003				
9/25/2012								<0.003	<0.003
9/26/2012		<0.003		<0.003		<0.003			
3/12/2013	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
3/13/2013							<0.003	<0.003	<0.003
9/9/2013			<0.003						
9/10/2013		<0.003		<0.003	<0.003	<0.003	<0.003		
9/11/2013	<0.003							<0.003	<0.003
3/4/2014	<0.003	<0.003	<0.003			<0.003			
3/10/2014							<0.003	<0.003	<0.003
3/11/2014				<0.003	<0.003				

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.003	<0.003	<0.003			<0.003	<0.003		
9/8/2014				<0.003	<0.003				
9/9/2014								<0.003	<0.003
4/21/2015	<0.003	<0.003		<0.003	<0.003	<0.003			
4/22/2015			<0.003				<0.003	<0.003	
4/23/2015									<0.003
9/29/2015		<0.003		<0.003	<0.003				
9/30/2015	<0.003		<0.003			<0.003	<0.003	<0.003	<0.003
3/22/2016	<0.003	<0.003	<0.003	<0.003	<0.003				
3/23/2016						<0.003			<0.003
3/24/2016							<0.003	<0.003	
5/17/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
5/18/2016							<0.003	<0.003	<0.003
7/5/2016	<0.003		<0.003	<0.003					
7/6/2016		0.0003 (J)			0.0003 (J)	0.0005 (J)		0.0003 (J)	
7/7/2016							<0.003		<0.003
9/7/2016	<0.003	<0.003	0.0021 (J)	0.0009 (J)	<0.003	<0.003			
9/8/2016							<0.003	<0.003	<0.003
10/18/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
10/19/2016							<0.003		<0.003
12/6/2016	<0.003	<0.003		<0.003	<0.003	<0.003			
12/7/2016			<0.003					<0.003	<0.003
12/8/2016							<0.003		
1/31/2017	<0.003		<0.003						
2/1/2017		<0.003		<0.003	<0.003				
2/2/2017						<0.003	<0.003	<0.003	
2/3/2017									<0.003
3/23/2017	<0.003		<0.003	<0.003					
3/24/2017		<0.003			<0.003				
3/27/2017						<0.003	<0.003	<0.003	<0.003
10/4/2017	<0.003		<0.003	<0.003	<0.003				
10/5/2017		<0.003				<0.003	<0.003	<0.003	<0.003
3/14/2018	<0.003		<0.003						
3/15/2018		<0.003		<0.003	<0.003	<0.003		<0.003	
3/16/2018							<0.003		<0.003
10/4/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
10/5/2018							<0.003		<0.003
4/5/2019				<0.003					
4/8/2019	<0.003	<0.003	<0.003		<0.003				
4/9/2019						<0.003	<0.003	<0.003	<0.003
9/30/2019	<0.003	<0.003	<0.003	<0.003	<0.003				
10/1/2019						<0.003	<0.003	<0.003	<0.003
3/26/2020	0.00028 (J)	<0.003	0.00049 (J)	<0.003	<0.003				
3/27/2020						<0.003			
3/30/2020							<0.003		
3/31/2020								<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.003	<0.003	<0.003					
3/7/2007				<0.003	<0.003			<0.003
5/8/2007				<0.003				<0.003
5/9/2007	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
7/6/2007				<0.003		<0.003	<0.003	<0.003
7/17/2007	<0.003	<0.003	<0.003		<0.003			
8/28/2007				<0.003	<0.003	<0.003	<0.003	<0.003
8/29/2007	<0.003	<0.003	<0.003					
11/6/2007				<0.003	<0.003	<0.003	0.0064 (o)	<0.003
11/7/2007	<0.003	<0.003	<0.003					
5/7/2008	<0.003	<0.003	<0.003					
5/8/2008				<0.003	<0.003	<0.003	<0.003	<0.003
12/2/2008						<0.003	<0.003	<0.003
12/3/2008				<0.003	<0.003			
12/5/2008	<0.003	<0.003	<0.003					
4/7/2009				<0.003	<0.003			
4/8/2009						<0.003	<0.003	<0.003
4/14/2009		<0.003	<0.003					
4/27/2009	<0.003							
9/30/2009	<0.003	<0.003					<0.003	<0.003
10/1/2009			<0.003	<0.003	<0.003	<0.003		
4/13/2010	<0.003	<0.003			<0.003	<0.003	<0.003	<0.003
4/14/2010			<0.003	<0.003				
10/6/2010					<0.003			
10/7/2010						<0.003		
10/12/2010	<0.003	<0.003						
10/13/2010			<0.003				<0.003	<0.003
10/14/2010				<0.003				
4/5/2011				<0.003	<0.003	<0.003	<0.003	<0.003
4/6/2011		<0.003	<0.003					
10/4/2011					<0.003	<0.003	<0.003	<0.003
10/5/2011	<0.003	<0.003						
10/12/2011			<0.003	<0.003				
4/3/2012					<0.003	<0.003	<0.003	
4/4/2012				<0.003				<0.003
4/9/2012		<0.003	<0.003					
4/10/2012	<0.003							
9/18/2012					<0.003	<0.003		
9/19/2012			<0.003				<0.003	<0.003
9/24/2012				<0.003				
9/25/2012		<0.003						
9/26/2012	<0.003							
3/12/2013				<0.003	<0.003	<0.003	<0.003	<0.003
3/13/2013	<0.003	<0.003	<0.003					
9/9/2013					<0.003			
9/10/2013			<0.003	<0.003		<0.003	<0.003	<0.003
9/11/2013	<0.003	<0.003						
3/5/2014				<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2014	<0.003	<0.003	<0.003					
9/3/2014			<0.003					<0.003
9/8/2014					<0.003	<0.003		
9/9/2014	<0.003	<0.003		<0.003			<0.003	



# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.003		<0.003		<0.003
4/22/2015					<0.003		<0.003	
4/23/2015		<0.003	<0.003					
9/29/2015				<0.003	<0.003	<0.003	<0.003	<0.003
9/30/2015	<0.003	<0.003	<0.003					
3/23/2016		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/24/2016	<0.003							
5/17/2016				<0.003	<0.003			
5/18/2016	<0.003	<0.003				<0.003	<0.003	<0.003
5/19/2016			<0.003					
7/6/2016				0.0004 (J)	0.0005 (J)	0.0013 (J)	0.0002 (J)	<0.003
7/7/2016	<0.003	<0.003	<0.003					
9/7/2016				<0.003	<0.003	<0.003		
9/8/2016	<0.003	<0.003	<0.003				<0.003	<0.003
10/18/2016				<0.003	<0.003	<0.003	<0.003	
10/19/2016	<0.003	<0.003	<0.003					<0.003
12/7/2016	<0.003	<0.003	<0.003					
12/8/2016				<0.003	<0.003	<0.003	<0.003	0.0012 (J)
2/1/2017				<0.003	<0.003			
2/2/2017	<0.003	<0.003				<0.003	<0.003	<0.003
2/3/2017			<0.003					
3/23/2017				<0.003	<0.003			
3/24/2017						<0.003	<0.003	
3/27/2017	<0.003	<0.003	<0.003					<0.003
10/4/2017				<0.003	<0.003	<0.003		
10/5/2017	<0.003	<0.003	<0.003				<0.003	<0.003
3/14/2018							<0.003	
3/15/2018	<0.003	<0.003	<0.003			<0.003		<0.003
3/16/2018				<0.003	<0.003			
10/4/2018	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	
10/5/2018			<0.003					<0.003
4/8/2019			<0.003		<0.003	<0.003	<0.003	<0.003
4/9/2019	<0.003	<0.003		<0.003				
10/1/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/26/2020			<0.003					
3/27/2020							<0.003	<0.003
3/30/2020						<0.003		
3/31/2020	<0.003	<0.003		<0.003	<0.003			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.005		<0.005	<0.005	<0.005			<0.005	
3/7/2007		<0.005				<0.005	<0.005		<0.005
5/8/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
5/9/2007							<0.005	<0.005	<0.005
7/7/2007	<0.005		<0.005						
7/17/2007		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/28/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/29/2007									<0.005
11/6/2007	<0.005		<0.005	<0.005	<0.005				
11/7/2007		<0.005				<0.005	<0.005	<0.005	<0.005
5/7/2008							<0.005	<0.005	<0.005
5/8/2008				<0.005	<0.005				
5/9/2008	<0.005	<0.005	<0.005			<0.005			
12/2/2008		<0.005				<0.005			
12/3/2008	<0.005		<0.005	<0.005	<0.005		<0.005		
12/4/2008								<0.005	
12/5/2008									<0.005
4/7/2009	<0.005		<0.005	<0.005	<0.005				
4/8/2009		<0.005				<0.005			
4/14/2009							<0.005	<0.005	<0.005
9/30/2009									<0.005
10/1/2009	<0.005	<0.005	<0.005			<0.005	<0.005		
10/2/2009				<0.005	0.0065			<0.005	
4/13/2010			<0.005				<0.005	<0.005	<0.005
4/14/2010	<0.005	<0.005		<0.005	<0.005	<0.005			
10/7/2010			<0.005						
10/12/2010							<0.005	<0.005	<0.005
10/13/2010	<0.005	<0.005				<0.005			
10/14/2010				<0.005	<0.005				
4/5/2011				<0.005	<0.005				
4/6/2011	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	
10/4/2011		<0.005				<0.005			
10/6/2011			<0.005						
10/10/2011	<0.005								
10/12/2011				<0.005	<0.005		<0.005	<0.005	<0.005
4/3/2012	<0.005		<0.005						
4/4/2012				<0.005	<0.005				
4/5/2012							<0.005	<0.005	
4/9/2012									<0.005
4/10/2012		<0.005				<0.005			
9/19/2012			<0.005				<0.005		
9/24/2012	<0.005				<0.005				
9/25/2012								<0.005	<0.005
9/26/2012		<0.005		<0.005		<0.005			
3/12/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
3/13/2013							<0.005	<0.005	<0.005
9/9/2013			<0.005						
9/10/2013		<0.005		<0.005	<0.005	<0.005	<0.005		
9/11/2013	<0.005							<0.005	<0.005
3/4/2014	<0.005	<0.005	<0.005			<0.005			
3/10/2014							<0.005	<0.005	<0.005
3/11/2014				0.005	<0.005				

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.005	<0.005	<0.005			<0.005	<0.005		
9/8/2014				0.0034 (J)	<0.005				
9/9/2014								<0.005	<0.005
4/21/2015	<0.005	<0.005		<0.005	<0.005	<0.005			
4/22/2015			<0.005				<0.005	<0.005	
4/23/2015									<0.005
9/29/2015		<0.005		0.0025 (J)	<0.005				
9/30/2015	<0.005		<0.005			<0.005	<0.005	<0.005	<0.005
3/22/2016	<0.005	<0.005	<0.005	<0.005	<0.005				
3/23/2016						<0.005			<0.005
3/24/2016							<0.005	<0.005	
5/17/2016	<0.005	<0.005	<0.005	0.00129 (J)	<0.005	<0.005			
5/18/2016							<0.005	<0.005	<0.005
7/5/2016	<0.005		<0.005	0.001 (J)					
7/6/2016		<0.005			<0.005	<0.005		<0.005	
7/7/2016							<0.005		<0.005
9/7/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
9/8/2016							<0.005	<0.005	<0.005
10/18/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
10/19/2016							<0.005		<0.005
12/6/2016	<0.005	<0.005		<0.005	<0.005	<0.005			
12/7/2016			<0.005					<0.005	<0.005
12/8/2016							<0.005		
1/31/2017	<0.005		<0.005						
2/1/2017		<0.005		<0.005	<0.005				
2/2/2017						<0.005	<0.005	<0.005	
2/3/2017									<0.005
3/23/2017	<0.005		<0.005	0.0006 (J)					
3/24/2017		<0.005			0.0006 (J)				
3/27/2017						<0.005	0.0005 (J)	<0.005	<0.005
10/4/2017	<0.005		<0.005	0.0011 (J)	<0.005				
10/5/2017		<0.005				<0.005	<0.005	<0.005	<0.005
3/14/2018	<0.005		<0.005						
3/15/2018		<0.005		0.00066 (J)	0.0014 (J)	<0.005		<0.005	
3/16/2018							<0.005		<0.005
10/4/2018	<0.005	<0.005	<0.005	0.0008 (J)	<0.005	<0.005		<0.005	
10/5/2018							<0.005		<0.005
4/5/2019				0.00035 (J)					
4/8/2019	<0.005	0.00012 (J)	<0.005		0.00023 (J)				
4/9/2019						<0.005	0.00063 (J)	<0.005	<0.005
9/30/2019	<0.005	<0.005	<0.005	0.00058 (J)	<0.005				
10/1/2019						<0.005	<0.005	<0.005	<0.005
3/26/2020	<0.005	<0.005	<0.005	0.00048 (J)	0.00044 (J)				
3/27/2020						<0.005			
3/30/2020							0.00073 (J)		
3/31/2020								<0.005	<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.005	<0.005	<0.005					
3/7/2007				<0.005	<0.005			<0.005
5/8/2007				<0.005				<0.005
5/9/2007	<0.005	<0.005	<0.005		<0.005	0.038 (o)	<0.005	
7/6/2007				<0.005		<0.005	<0.005	<0.005
7/17/2007	<0.005	<0.005	<0.005		<0.005			
8/28/2007				<0.005	<0.005	<0.005	<0.005	<0.005
8/29/2007	<0.005	<0.005	<0.005					
11/6/2007				<0.005	<0.005	<0.005	<0.005	<0.005
11/7/2007	<0.005	<0.005	<0.005					
5/7/2008	<0.005	<0.005	<0.005					
5/8/2008				<0.005	<0.005	<0.005	<0.005	<0.005
12/2/2008						<0.005	<0.005	<0.005
12/3/2008				<0.005	<0.005			
12/5/2008	<0.005	<0.005	<0.005					
4/7/2009				<0.005	<0.005			
4/8/2009						<0.005	<0.005	<0.005
4/14/2009		<0.005	<0.005					
4/27/2009	<0.005							
9/30/2009	<0.005	<0.005					<0.005	<0.005
10/1/2009			<0.005	<0.005	<0.005	<0.005		
4/13/2010	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
4/14/2010			<0.005	<0.005				
10/6/2010					<0.005			
10/7/2010						<0.005		
10/12/2010	<0.005	<0.005						
10/13/2010			<0.005				<0.005	<0.005
10/14/2010				<0.005				
4/5/2011				<0.005	<0.005	<0.005	<0.005	<0.005
4/6/2011		<0.005	<0.005					
10/4/2011					<0.005	<0.005	<0.005	<0.005
10/5/2011	<0.005	<0.005						
10/12/2011			<0.005	<0.005				
4/3/2012					<0.005	<0.005	<0.005	
4/4/2012				<0.005				<0.005
4/9/2012		<0.005	<0.005					
4/10/2012	<0.005							
9/18/2012					<0.005	<0.005		
9/19/2012			<0.005				<0.005	<0.005
9/24/2012				<0.005				
9/25/2012		<0.005						
9/26/2012	<0.005							
3/12/2013				<0.005	<0.005	<0.005	<0.005	<0.005
3/13/2013	<0.005	<0.005	<0.005					
9/9/2013					<0.005			
9/10/2013			<0.005	<0.005		0.0053	<0.005	<0.005
9/11/2013	<0.005	<0.005						
3/5/2014				0.0017 (J)	<0.005	0.0052	0.0022 (J)	<0.005
3/11/2014	<0.005	<0.005	<0.005					
9/3/2014			<0.005					<0.005
9/8/2014					<0.005	0.0058		
9/9/2014	<0.005	<0.005		<0.005			<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.005		0.0088		<0.005
4/22/2015					<0.005		<0.005	
4/23/2015		<0.005	<0.005					
9/29/2015				<0.005	<0.005	0.0086	<0.005	<0.005
9/30/2015	0.0023 (J)	<0.005	<0.005					
3/23/2016		<0.005	<0.005	<0.005	<0.005	0.00693	<0.005	<0.005
3/24/2016	<0.005							
5/17/2016				<0.005	<0.005			
5/18/2016	<0.005	<0.005				0.00451 (J)	<0.005	<0.005
5/19/2016			<0.005					
7/6/2016				<0.005	<0.005	0.0063	<0.005	<0.005
7/7/2016	0.0012 (J)	<0.005	<0.005					
9/7/2016				<0.005	<0.005	0.0065		
9/8/2016	<0.005	<0.005	<0.005				<0.005	<0.005
10/18/2016				<0.005	<0.005	0.0056	<0.005	
10/19/2016	<0.005	<0.005	<0.005					<0.005
12/7/2016	<0.005	<0.005	<0.005					
12/8/2016				<0.005	<0.005	0.0065	<0.005	<0.005
2/1/2017				<0.005	<0.005			
2/2/2017	<0.005	<0.005				0.002 (J)	<0.005	<0.005
2/3/2017			<0.005					
3/23/2017				<0.005	<0.005			
3/24/2017						0.0027 (J)	0.0005 (J)	
3/27/2017	<0.005	<0.005	<0.005					<0.005
10/4/2017				0.0006 (J)	<0.005	0.0056		
10/5/2017	0.001 (J)	<0.005	<0.005				0.0008 (J)	<0.005
3/14/2018							0.00064 (J)	
3/15/2018	<0.005	<0.005	<0.005			0.0037 (J)		<0.005
3/16/2018				<0.005	<0.005			
10/4/2018	0.0034 (J)	<0.005		<0.005	<0.005	0.0049 (J)	<0.005	
10/5/2018			<0.005					<0.005
4/8/2019			0.00034 (J)		<0.005	0.0057	0.0015 (J)	<0.005
4/9/2019	0.0018 (J)	<0.005		<0.005				
10/1/2019	<0.005	<0.005	0.00082 (J)	<0.005	<0.005	0.01	0.0028 (J)	0.00071 (J)
11/6/2019						0.011		
3/26/2020			<0.005					
3/27/2020							0.002 (J)	<0.005
3/30/2020						0.0052		
3/31/2020	0.00035 (J)	<0.005		<0.005	<0.005			

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	0.032		0.12	0.17	0.13			0.088	
3/7/2007		0.03				0.15	0.072		0.11
5/8/2007	0.04	0.032	0.11	0.21	0.12	0.14			
5/9/2007							0.063	0.07	0.082
7/7/2007	0.041		0.11						
7/17/2007		0.028		0.21	0.12	0.1	0.058	0.063	0.078
8/28/2007	0.044	0.03	0.13	0.2	0.13	0.1	0.06	0.066	
8/29/2007									0.096
11/6/2007	0.044		0.12	0.19	0.12				
11/7/2007		0.032				0.11	0.072	0.07	0.1
5/7/2008							0.076	0.071	0.11
5/8/2008				0.2	0.13				
5/9/2008	0.03	0.032	0.12			0.15			
12/2/2008		0.036				0.11			
12/3/2008	0.047		0.12	0.18	0.14		0.066		
12/4/2008								0.068	
12/5/2008									0.11
4/7/2009	0.032		0.13	0.2	0.097				
4/8/2009		0.04				0.16			
4/14/2009							0.08	0.076	0.11
9/30/2009									0.12
10/1/2009	0.043	0.039	0.14			0.11	0.074		
10/2/2009				0.2	0.11			0.07	
4/13/2010			0.15				0.062	0.085	0.11
4/14/2010	0.032	0.041		0.2	0.059	0.15			
10/7/2010			0.16						
10/12/2010							0.078	0.075	0.12
10/13/2010	0.046	0.039				0.1			
10/14/2010				0.18	0.053				
4/5/2011				0.16	0.042				
4/6/2011	0.034	0.034	0.14			0.13	0.066	0.077	
10/4/2011		0.032				0.089			
10/6/2011			0.16						
10/10/2011	0.038								
10/12/2011				0.15	0.048		0.071	0.12	0.11
4/3/2012	0.0363		0.165						
4/4/2012				0.165	0.044				
4/5/2012							0.0675	0.143	
4/9/2012									0.13
4/10/2012		0.0425				0.126			
9/19/2012			0.16				0.073		
9/24/2012	0.041				0.048				
9/25/2012								0.13	0.13
9/26/2012		0.035		0.17		0.093			
3/12/2013	0.041	0.035	0.16	0.17	0.043	0.13			
3/13/2013							0.075	0.14	0.12
9/9/2013			0.17						
9/10/2013		0.035		0.18	0.042	0.14	0.081		
9/11/2013	0.048							0.15	0.12
3/4/2014	0.036	0.031	0.16			0.11			
3/10/2014							0.064	0.13	0.11
3/11/2014				0.17	0.04				

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	0.04	0.033	0.17			0.1	0.078		
9/8/2014				0.16	0.042				
9/9/2014								0.16	0.11
4/21/2015	0.033	0.03		0.16	0.05	0.14			
4/22/2015			0.17				0.067	0.15	
4/23/2015									0.11
9/29/2015		0.031		0.14	0.044				
9/30/2015	0.042		0.15			0.096	0.075	0.15	0.11
3/22/2016	0.0326	0.0327	0.197	0.188	0.0397				
3/23/2016						0.132			0.115
3/24/2016							0.0818	0.152	
5/17/2016	0.0387	0.0323	0.178	0.193	0.0351	0.122			
5/18/2016							0.0763	0.146	0.128
7/5/2016	0.0403		0.182	0.172					
7/6/2016		0.0344			0.0475	0.101		0.152	
7/7/2016							0.0747		0.124
9/7/2016	0.0413	0.0324	0.172	0.164	0.0415	0.0985			
9/8/2016							0.081	0.142	0.121
10/18/2016	0.0409	0.0311	0.174	0.138	0.0424	0.104		0.145	
10/19/2016							0.084		0.117
12/6/2016	0.0408	0.0311		0.149	0.0528	0.1			
12/7/2016			0.167					0.133	0.11
12/8/2016							0.0799		
1/31/2017	0.0435		0.176						
2/1/2017		0.0332		0.121	0.0482				
2/2/2017						0.147	0.0813	0.14	
2/3/2017									0.123
3/23/2017	0.038		0.157	0.143					
3/24/2017		0.032			0.0595				
3/27/2017						0.158	0.0714	0.152	0.112
10/4/2017	0.0396		0.143	0.139	0.0486				
10/5/2017		0.0325				0.106	0.0755	0.142	0.128
3/14/2018	0.039		0.17						
3/15/2018		0.031		0.17	0.04	0.18		0.14	
3/16/2018							0.074		0.12
5/15/2018						0.16			
10/4/2018	0.039	0.033	0.18	0.16	0.05	0.2		0.16	
10/5/2018							0.081		0.12
12/11/2018						0.18			
1/11/2019						0.17			
4/5/2019				0.13					
4/8/2019	0.031	0.031	0.15		0.047				
4/9/2019						0.17	0.081	0.15	0.13
9/30/2019	0.042	0.03	0.17	0.14	0.051				
10/1/2019						0.12	0.082	0.15	0.14
3/26/2020	0.032	0.031	0.16	0.14	0.049				
3/27/2020						0.037			
3/30/2020							0.077		
3/31/2020								0.17	0.15

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	0.038	0.023	0.05					
3/7/2007				0.1	0.057			0.059
5/8/2007				0.11				0.055
5/9/2007	0.046	0.034	0.055		0.054	0.011	0.13	
7/6/2007				0.11		0.0065	0.12	0.052
7/17/2007	0.06	0.034	0.048		0.059			
8/28/2007				0.1	0.061	0.0095	0.11	0.047
8/29/2007	0.07	0.048	0.056					
11/6/2007				0.1	0.074	0.013	0.1	0.048
11/7/2007	0.055	0.042	0.07					
5/7/2008	0.032	0.078	0.063					
5/8/2008				0.11	0.079	0.011	0.1	0.052
12/2/2008						0.011	0.11	0.056
12/3/2008				0.091	0.1			
12/5/2008	0.06	0.067	0.068					
4/7/2009				0.094	0.091			
4/8/2009						0.0091	0.1	0.057
4/14/2009		0.083	0.062					
4/27/2009	0.032							
9/30/2009	0.046	0.086					0.099	0.055
10/1/2009			0.064	0.097	0.092	0.0098		
4/13/2010	0.035	0.087			0.095	0.0084	0.098	0.053
4/14/2010			0.048	0.096				
10/6/2010					0.11			
10/7/2010						0.01		
10/12/2010	0.15	0.082						
10/13/2010			0.071				0.092	0.054
10/14/2010				0.1				
4/5/2011				0.092	0.1	0.015	0.085	0.035
4/6/2011		0.082	0.042					
10/4/2011					0.11	0.01	0.091	0.058
10/5/2011	0.055	0.082						
10/12/2011			0.066	0.12				
4/3/2012					0.116	0.0426	0.101	
4/4/2012				0.105				0.0632
4/9/2012		0.0959	0.0628					
4/10/2012	0.0399							
9/18/2012					0.12	0.02		
9/19/2012			0.073				0.1	0.061
9/24/2012				0.13				
9/25/2012		0.09						
9/26/2012	0.093							
3/12/2013				0.1	0.11	0.35	0.098	0.056
3/13/2013	0.066	0.092	0.057					
9/9/2013					0.13			
9/10/2013			0.066	0.13		0.11	0.11	0.067
9/11/2013	0.053	0.096						
3/5/2014				0.084	0.12	0.054	0.087	0.055
3/11/2014	0.039	0.085	0.054					
9/3/2014			0.06					0.051
9/8/2014					0.13	0.044		
9/9/2014	0.14	0.096		0.11			0.1	



# Time Series

Constituent: Barium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				0.11		0.065		0.059
4/22/2015					0.14		0.095	
4/23/2015		0.093	0.06					
9/29/2015				0.097	0.14	0.036	0.093	0.06
9/30/2015	0.15	0.096	0.076					
3/23/2016		0.0938	0.0533	0.0993	0.156	0.263	0.0918	0.0636
3/24/2016	0.046							
5/17/2016				0.104	0.168			
5/18/2016	0.0557	0.0983				0.245	0.0957	0.0629
5/19/2016			0.074					
7/6/2016				0.104	0.171	0.117	0.0935	0.0646
7/7/2016	0.0596	0.121	0.0766					
9/7/2016				0.0945	0.154	0.0703		
9/8/2016	0.184	0.0917	0.0726				0.0925	0.063
10/18/2016				0.0928	0.159	0.068	0.0939	
10/19/2016	0.186	0.091	0.072					0.0644
12/7/2016	0.174	0.0868	0.0732					
12/8/2016				0.1	0.156	0.0791	0.0996	0.0648
2/1/2017				0.0972	0.163			
2/2/2017	0.0783	0.0939				0.17	0.096	0.0656
2/3/2017			0.0619					
3/23/2017				0.105	0.161			
3/24/2017						0.181	0.106	
3/27/2017	0.0363	0.0905	0.0602					0.0619
10/4/2017				0.102	0.171	0.0937		
10/5/2017	0.0562	0.0945	0.0734				0.103	0.0655
3/14/2018							0.1	
3/15/2018	0.086	0.096	0.053			0.15		0.062
3/16/2018				0.091	0.17			
10/4/2018	0.079	0.1		0.084	0.19	0.08	0.11	
10/5/2018			0.065					0.07
4/8/2019			0.059		0.15	0.24	0.13	0.058
4/9/2019	0.05	0.094		0.067				
6/18/2019							0.17	
10/1/2019	0.18	0.1	0.082	0.09	0.18	0.085	0.12	0.071
3/26/2020			0.071					
3/27/2020							0.14	0.06
3/30/2020						0.21		
3/31/2020	0.044	0.1		0.064	0.18			

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.003		<0.003	<0.003	<0.003			<0.003	
3/7/2007		<0.003				<0.003	<0.003		<0.003
5/8/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
5/9/2007							<0.003	<0.003	<0.003
7/7/2007	<0.003		<0.003						
7/17/2007		<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/28/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
8/29/2007									<0.003
11/6/2007	<0.003		<0.003	<0.003	<0.003				
11/7/2007		<0.003				<0.003	<0.003	<0.003	<0.003
5/7/2008							<0.003	<0.003	<0.003
5/8/2008				<0.003	<0.003				
5/9/2008	<0.003	<0.003	<0.003			<0.003			
12/2/2008		<0.003				<0.003			
12/3/2008	<0.003		<0.003	<0.003	<0.003		<0.003		
12/4/2008								<0.003	
12/5/2008									<0.003
4/7/2009	<0.003		<0.003	<0.003	<0.003				
4/8/2009		<0.003				<0.003			
4/14/2009							<0.003	<0.003	<0.003
9/30/2009									<0.003
10/1/2009	<0.003	<0.003	<0.003			<0.003	<0.003		
10/2/2009				<0.003	<0.003			<0.003	
4/13/2010			<0.003				<0.003	<0.003	<0.003
4/14/2010	<0.003	<0.003		<0.003	<0.003	<0.003			
10/7/2010			<0.003						
10/12/2010							<0.003	<0.003	<0.003
10/13/2010	<0.003	<0.003				<0.003			
10/14/2010				<0.003	<0.003				
4/5/2011				<0.003	<0.003				
4/6/2011	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003	
10/4/2011		<0.003				<0.003			
10/6/2011			<0.003						
10/10/2011	<0.003								
10/12/2011				<0.003	<0.003		<0.003	<0.003	<0.003
4/3/2012	<0.003		<0.003						
4/4/2012				<0.003	<0.003				
4/5/2012							<0.003	<0.003	
4/9/2012									<0.003
4/10/2012		<0.003				<0.003			
9/19/2012			<0.003				<0.003		
9/24/2012	<0.003				<0.003				
9/25/2012								<0.003	<0.003
9/26/2012		<0.003		<0.003		<0.003			
3/12/2013	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
3/13/2013							<0.003	<0.003	<0.003
9/9/2013			<0.003						
9/10/2013		<0.003		<0.003	<0.003	<0.003	<0.003		
9/11/2013	<0.003							<0.003	<0.003
3/4/2014	<0.003	<0.003	<0.003			<0.003			
3/10/2014							<0.003	<0.003	<0.003
3/11/2014				<0.003	<0.003				

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.003	<0.003	<0.003			<0.003	<0.003		
9/8/2014				<0.003	<0.003				
9/9/2014								<0.003	<0.003
4/21/2015	<0.003	<0.003		8E-05 (J)	<0.003	<0.003			
4/22/2015			<0.003				<0.003	<0.003	
4/23/2015									<0.003
9/29/2015		<0.003		<0.003	<0.003				
9/30/2015	<0.003		<0.003			<0.003	<0.003	<0.003	<0.003
3/22/2016	<0.003	<0.003	<0.003	<0.003	<0.003				
3/23/2016						<0.003			<0.003
3/24/2016							<0.003	<0.003	
5/17/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
5/18/2016							<0.003	<0.003	<0.003
7/5/2016	<0.003		<0.003	<0.003					
7/6/2016		<0.003			<0.003	<0.003		<0.003	
7/7/2016							<0.003		<0.003
9/7/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
9/8/2016							<0.003	<0.003	<0.003
10/18/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
10/19/2016							<0.003		<0.003
12/6/2016	<0.003	<0.003		<0.003	<0.003	<0.003			
12/7/2016			<0.003					<0.003	<0.003
12/8/2016							<0.003		
1/31/2017	<0.003		<0.003						
2/1/2017		<0.003		<0.003	<0.003				
2/2/2017						<0.003	<0.003	<0.003	
2/3/2017									<0.003
3/23/2017	<0.003		<0.003	<0.003					
3/24/2017		<0.003			<0.003				
3/27/2017						<0.003	<0.003	<0.003	<0.003
10/4/2017	<0.003		<0.003	<0.003	<0.003				
10/5/2017		<0.003				<0.003	<0.003	<0.003	<0.003
3/14/2018	<0.003		<0.003						
3/15/2018		<0.003		<0.003	<0.003	<0.003		<0.003	
3/16/2018							<0.003		<0.003
10/4/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
10/5/2018							<0.003		<0.003
4/5/2019				<0.003					
4/8/2019	<0.003	<0.003	<0.003		<0.003				
4/9/2019						<0.003	<0.003	<0.003	<0.003
9/30/2019	<0.003	<0.003	<0.003	<0.003	<0.003				
10/1/2019						<0.003	<0.003	<0.003	<0.003
3/26/2020	<0.003	<0.003	<0.003	<0.003	<0.003				
3/27/2020						<0.003			
3/30/2020							<0.003		
3/31/2020								<0.003	<0.003

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.003	<0.003	<0.003					
3/7/2007				<0.003	<0.003			<0.003
5/8/2007				<0.003				<0.003
5/9/2007	<0.003	<0.003	<0.003		<0.003	0.28 (o)	<0.003	
7/6/2007				<0.003		0.093	<0.003	<0.003
7/17/2007	<0.003	<0.003	<0.003		<0.003			
8/28/2007				<0.003	<0.003	0.057	<0.003	<0.003
8/29/2007	<0.003	<0.003	<0.003					
11/6/2007				<0.003	<0.003	0.036	<0.003	<0.003
11/7/2007	<0.003	<0.003	<0.003					
5/7/2008	<0.003	<0.003	<0.003					
5/8/2008				<0.003	<0.003	0.013	<0.003	<0.003
12/2/2008						0.01	<0.003	<0.003
12/3/2008				<0.003	<0.003			
12/5/2008	<0.003	<0.003	<0.003					
4/7/2009				<0.003	<0.003			
4/8/2009						0.0076	<0.003	<0.003
4/14/2009		<0.003	<0.003					
4/27/2009	<0.003							
9/30/2009	<0.003	<0.003					<0.003	<0.003
10/1/2009			<0.003	<0.003	<0.003	0.0057		
4/13/2010	<0.003	<0.003			<0.003	0.0061	<0.003	<0.003
4/14/2010			<0.003	<0.003				
10/6/2010					<0.003			
10/7/2010						0.0039		
10/12/2010	<0.003	<0.003						
10/13/2010			<0.003				<0.003	<0.003
10/14/2010				<0.003				
4/5/2011				<0.003	<0.003	0.0025	<0.003	<0.003
4/6/2011		<0.003	<0.003					
10/4/2011					<0.003	0.0024	<0.003	<0.003
10/5/2011	<0.003	<0.003						
10/12/2011			<0.003	<0.003				
4/3/2012					<0.003	0.0008	<0.003	
4/4/2012				<0.003				<0.003
4/9/2012		<0.003	<0.003					
4/10/2012	<0.003							
9/18/2012					<0.003	0.002		
9/19/2012			<0.003				<0.003	<0.003
9/24/2012				<0.003				
9/25/2012		<0.003						
9/26/2012	<0.003							
3/12/2013				<0.003	<0.003	<0.003	<0.003	<0.003
3/13/2013	<0.003	<0.003	<0.003					
9/9/2013					<0.003			
9/10/2013			<0.003	<0.003		<0.003	<0.003	<0.003
9/11/2013	<0.003	<0.003						
3/5/2014				<0.003	<0.003	0.00037 (J)	<0.003	<0.003
3/11/2014	<0.003	<0.003	<0.003					
9/3/2014			<0.003					<0.003
9/8/2014					<0.003	0.00055 (J)		
9/9/2014	<0.003	<0.003		<0.003			<0.003	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.003		0.00033 (J)		<0.003
4/22/2015					<0.003		<0.003	
4/23/2015		<0.003	<0.003					
9/29/2015				<0.003	<0.003	0.00046 (J)	<0.003	<0.003
9/30/2015	<0.003	<0.003	<0.003					
3/23/2016		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/24/2016	<0.003							
5/17/2016				<0.003	<0.003			
5/18/2016	<0.003	<0.003				<0.003	<0.003	<0.003
5/19/2016			<0.003					
7/6/2016				<0.003	<0.003	0.0002 (J)	<0.003	<0.003
7/7/2016	<0.003	<0.003	<0.003					
9/7/2016				<0.003	<0.003	0.0002 (J)		
9/8/2016	<0.003	<0.003	<0.003				<0.003	<0.003
10/18/2016				<0.003	<0.003	0.0002 (J)	<0.003	
10/19/2016	<0.003	<0.003	<0.003					<0.003
12/7/2016	<0.003	<0.003	<0.003					
12/8/2016				<0.003	<0.003	0.0003 (J)	<0.003	<0.003
2/1/2017				<0.003	<0.003			
2/2/2017	<0.003	<0.003				<0.003	<0.003	<0.003
2/3/2017			<0.003					
3/23/2017				<0.003	<0.003			
3/24/2017						<0.003	<0.003	
3/27/2017	<0.003	<0.003	<0.003					<0.003
10/4/2017				<0.003	<0.003	0.0001 (J)		
10/5/2017	<0.003	<0.003	<0.003				<0.003	<0.003
3/14/2018							<0.003	
3/15/2018	<0.003	<0.003	<0.003			<0.003		<0.003
3/16/2018				<0.003	<0.003			
10/4/2018	<0.003	<0.003		<0.003	<0.003	0.0002 (J)	<0.003	
10/5/2018			<0.003					<0.003
4/8/2019			<0.003		<0.003	5.8E-05 (J)	<0.003	<0.003
4/9/2019	<0.003	<0.003		<0.003				
10/1/2019	<0.003	<0.003	<0.003	<0.003	<0.003	0.0001 (J)	<0.003	<0.003
3/26/2020			<0.003					
3/27/2020							<0.003	<0.003
3/30/2020						<0.003		
3/31/2020	<0.003	<0.003		<0.003	<0.003			

# Time Series

Constituent: Boron (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/22/2016	<0.1	0.04 (J)	0.0828 (J)	0.135	0.0815 (J)				
3/23/2016						0.0354 (J)			<0.1
3/24/2016							0.122	0.173	
5/17/2016	<0.1	0.0358 (J)	0.0844 (J)	0.132	0.0838 (J)	0.0349 (J)			
5/18/2016							0.139	0.186	0.0229 (J)
7/5/2016	0.0419 (J)		0.0962 (J)	0.161					
7/6/2016		0.0373 (J)			0.111	0.0308 (J)		0.184	
7/7/2016							0.12		0.0169 (J)
9/7/2016	0.0174 (J)	0.0352 (J)	0.0884 (J)	0.163	0.107	0.0283 (J)			
9/8/2016							0.126	0.173	0.0178 (J)
10/18/2016	0.0192 (J)	0.0332 (J)	0.0889 (J)	0.154	0.118	0.0292 (J)		0.171	
10/19/2016							0.133		0.018 (J)
12/6/2016	0.0182 (J)	0.033 (J)		0.142	0.106	0.0287 (J)			
12/7/2016			0.0954					0.203	0.0248 (J)
12/8/2016							0.119		
1/31/2017	0.0193 (J)		0.0939						
2/1/2017		0.0365 (J)		0.143	0.0949				
2/2/2017						0.0334 (J)	0.132	0.187	
2/3/2017									0.0171 (J)
3/23/2017	0.0192 (J)		0.0869	0.15					
3/24/2017		0.0343 (J)			0.0887				
3/27/2017						0.0396 (J)	0.134	0.182	0.0181 (J)
10/4/2017	0.0199 (J)		0.0914	0.182	0.105				
10/5/2017		0.0325 (J)				0.0294 (J)	0.125	0.166	0.0178 (J)
3/14/2018	0.019 (J)		0.075						
3/15/2018		0.037 (J)		0.14	0.043	0.038 (J)		0.17	
3/16/2018							0.12		0.016 (J)
10/4/2018	0.021 (J)	0.035 (J)	0.082	0.16	0.1	0.038 (J)		0.17	
10/5/2018							0.15		0.017 (J)
4/5/2019				0.12					
4/8/2019	0.019 (J)	0.034 (J)	0.071 (J)		0.057 (J)				
4/9/2019						0.035 (J)	0.12	0.17	0.011 (J)
9/30/2019	0.025 (J)	0.039 (J)	0.084	0.17	0.11				
10/1/2019						0.031 (J)	0.14	0.17	0.019 (J)
3/26/2020	0.022 (J)	0.041 (J)	0.092 (J)	0.14	0.086 (J)				
3/27/2020						0.04 (J)			
3/30/2020							0.13		
3/31/2020								0.18	0.024 (J)

# Time Series

Constituent: Boron (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016		0.0649 (J)	<0.1	0.0509 (J)	0.0379 (J)	0.0574 (J)	0.0213 (J)	<0.1
3/24/2016	0.0232 (J)							
5/17/2016				0.0565 (J)	0.0395 (J)			
5/18/2016	0.0289 (J)	0.0781 (J)				0.0686 (J)	0.028 (J)	0.0202 (J)
5/19/2016			0.0212 (J)					
7/6/2016				0.0628 (J)	0.0393 (J)	0.0675 (J)	0.0231 (J)	0.0171 (J)
7/7/2016	0.0313 (J)	0.0621 (J)	0.0183 (J)					
9/7/2016				0.0648 (J)	0.04 (J)	0.0582 (J)		
9/8/2016	0.0593 (J)	0.0607 (J)	0.017 (J)				0.0234 (J)	0.0157 (J)
10/18/2016				0.0666 (J)	0.0366 (J)	0.0577 (J)	0.0228 (J)	
10/19/2016	0.087 (J)	0.0733 (J)	0.0203 (J)					0.0152 (J)
12/7/2016	0.127	0.0758	0.0215 (J)					
12/8/2016				0.062	0.0397 (J)	0.0572	0.0251 (J)	0.0178 (J)
2/1/2017				0.0516	0.0381 (J)			
2/2/2017	0.0318 (J)	0.0729				0.0534	0.0238 (J)	0.0151 (J)
2/3/2017			0.0812					
3/23/2017				0.0597	0.0416			
3/24/2017						0.0532	0.0234 (J)	
3/27/2017	0.0225 (J)	0.0698	0.125					0.0203 (J)
10/4/2017				0.0658	0.0382 (J)	0.0563		
10/5/2017	0.0304 (J)	0.0677	0.0375 (J)				0.0329 (J)	0.0157 (J)
3/14/2018							0.024 (J)	
3/15/2018	0.025 (J)	0.07	0.051			0.053		0.013 (J)
3/16/2018				0.047	0.044			
5/16/2018					0.042			
10/4/2018	0.029 (J)	0.065		0.066	0.038 (J)	0.048	0.047 (J)	
10/5/2018			0.039 (J)					0.017 (J)
4/8/2019			0.022 (J)		0.036 (J)	0.049 (J)	0.055 (J)	0.015 (J)
4/9/2019	0.014 (J)	0.063		0.048				
10/1/2019	0.059	0.066	0.024 (J)	0.071	0.042	0.05	0.046	0.018 (J)
3/26/2020			0.042 (J)					
3/27/2020							0.056 (J)	0.018 (J)
3/30/2020						0.049 (J)		
3/31/2020	0.022 (J)	0.067 (J)		0.057 (J)	0.091 (J)			

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.0025		<0.0025	<0.0025	<0.0025			<0.0025	
3/7/2007		<0.0025				<0.0025	<0.0025		<0.0025
5/8/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
5/9/2007							<0.0025	<0.0025	<0.0025
7/7/2007	<0.0025		<0.0025						
7/17/2007		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/28/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/29/2007									<0.0025
11/6/2007	<0.0025		<0.0025	<0.0025	<0.0025				
11/7/2007		<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
5/7/2008							<0.0025	<0.0025	<0.0025
5/8/2008				<0.0025	<0.0025				
5/9/2008	<0.0025	<0.0025	<0.0025			<0.0025			
12/2/2008		<0.0025				<0.0025			
12/3/2008	<0.0025		<0.0025	<0.0025	<0.0025		<0.0025		
12/4/2008								<0.0025	
12/5/2008									<0.0025
4/7/2009	<0.0025		<0.0025	<0.0025	<0.0025				
4/8/2009		<0.0025				<0.0025			
4/14/2009							<0.0025	<0.0025	<0.0025
9/30/2009									<0.0025
10/1/2009	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025		
10/2/2009				<0.0025	<0.0025			<0.0025	
4/13/2010			<0.0025				<0.0025	<0.0025	<0.0025
4/14/2010	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025			
10/7/2010			<0.0025						
10/12/2010							<0.0025	<0.0025	<0.0025
10/13/2010	<0.0025	<0.0025				<0.0025			
10/14/2010				<0.0025	<0.0025				
4/5/2011				<0.0025	<0.0025				
4/6/2011	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025	<0.0025	
10/4/2011		<0.0025				<0.0025			
10/6/2011			<0.0025						
10/10/2011	<0.0025								
10/12/2011				<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
4/3/2012	<0.0025		<0.0025						
4/4/2012				<0.0025	<0.0025				
4/5/2012							<0.0025	<0.0025	
4/9/2012									<0.0025
4/10/2012		<0.0025				<0.0025			
9/19/2012			<0.0025				<0.0025		
9/24/2012	<0.0025				<0.0025				
9/25/2012								<0.0025	<0.0025
9/26/2012		<0.0025		<0.0025		<0.0025			
3/12/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
3/13/2013							<0.0025	<0.0025	<0.0025
9/9/2013			<0.0025						
9/10/2013		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025		
9/11/2013	<0.0025							<0.0025	<0.0025
3/4/2014	<0.0025	<0.0025	<0.0025			<0.0025			
3/10/2014							<0.0025	<0.0025	<0.0025
3/11/2014				<0.0025	<0.0025				



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025		
9/8/2014				<0.0025	<0.0025				
9/9/2014								<0.0025	<0.0025
4/21/2015	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025			
4/22/2015			<0.0025				<0.0025	<0.0025	
4/23/2015									<0.0025
9/29/2015		<0.0025		<0.0025	<0.0025				
9/30/2015	<0.0025		<0.0025			<0.0025	<0.0025	<0.0025	<0.0025
3/22/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
3/23/2016						<0.0025			<0.0025
3/24/2016							<0.0025	<0.0025	
5/17/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
5/18/2016							<0.0025	<0.0025	<0.0025
7/5/2016	<0.0025		<0.0025	<0.0025					
7/6/2016		<0.0025			<0.0025	<0.0025		<0.0025	
7/7/2016							<0.0025		<0.0025
9/7/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
9/8/2016							<0.0025	<0.0025	<0.0025
10/18/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
10/19/2016							<0.0025		<0.0025
12/6/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025			
12/7/2016			<0.0025					<0.0025	<0.0025
12/8/2016							<0.0025		
1/31/2017	<0.0025		<0.0025						
2/1/2017		<0.0025		<0.0025	0.0001 (J)				
2/2/2017						9E-05 (J)	8E-05 (J)	<0.0025	
2/3/2017									<0.0025
3/23/2017	<0.0025		<0.0025	<0.0025					
3/24/2017		<0.0025			<0.0025				
3/27/2017						<0.0025	<0.0025	<0.0025	<0.0025
10/4/2017	<0.0025		<0.0025	<0.0025	<0.0025				
10/5/2017		<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
3/14/2018	<0.0025		<0.0025						
3/15/2018		<0.0025		<0.0025	<0.0025	<0.0025		<0.0025	
3/16/2018							<0.0025		<0.0025
10/4/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
10/5/2018							<0.0025		0.00011 (J)
4/5/2019				<0.0025					
4/8/2019	<0.0025	<0.0025	<0.0025		<0.0025				
4/9/2019						<0.0025	<0.0025	<0.0025	<0.0025
9/30/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
10/1/2019						<0.0025	<0.0025	<0.0025	<0.0025
3/26/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
3/27/2020						<0.0025			
3/30/2020							<0.0025		
3/31/2020								<0.0025	<0.0025

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.0025	<0.0025	<0.0025					
3/7/2007				0.0015	<0.0025			<0.0025
5/8/2007				<0.0025				<0.0025
5/9/2007	<0.0025	<0.0025	<0.0025		<0.0025	0.023 (o)	<0.0025	
7/6/2007				<0.0025		0.0081	<0.0025	<0.0025
7/17/2007	<0.0025	<0.0025	<0.0025		<0.0025			
8/28/2007				<0.0025	<0.0025	0.0035	<0.0025	<0.0025
8/29/2007	<0.0025	<0.0025	<0.0025					
11/6/2007				<0.0025	<0.0025	0.0028	<0.0025	<0.0025
11/7/2007	<0.0025	<0.0025	<0.0025					
5/7/2008	<0.0025	<0.0025	<0.0025					
5/8/2008				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/2/2008						<0.0025	<0.0025	<0.0025
12/3/2008				<0.0025	<0.0025			
12/5/2008	<0.0025	<0.0025	<0.0025					
4/7/2009				<0.0025	<0.0025			
4/8/2009						0.0013	<0.0025	<0.0025
4/14/2009		<0.0025	<0.0025					
4/27/2009	<0.0025							
9/30/2009	<0.0025	<0.0025					<0.0025	<0.0025
10/1/2009			<0.0025	<0.0025	<0.0025	<0.0025		
4/13/2010	<0.0025	<0.0025			<0.0025	<0.0025	<0.0025	<0.0025
4/14/2010			<0.0025	<0.0025				
10/6/2010					<0.0025			
10/7/2010						<0.0025		
10/12/2010	<0.0025	<0.0025						
10/13/2010			<0.0025				<0.0025	<0.0025
10/14/2010				<0.0025				
4/5/2011				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/6/2011		<0.0025	<0.0025					
10/4/2011					<0.0025	<0.0025	<0.0025	<0.0025
10/5/2011	<0.0025	<0.0025						
10/12/2011			<0.0025	<0.0025				
4/3/2012					<0.0025	<0.0025	<0.0025	
4/4/2012				<0.0025				<0.0025
4/9/2012		<0.0025	<0.0025					
4/10/2012	<0.0025							
9/18/2012					<0.0025	<0.0025		
9/19/2012			<0.0025				<0.0025	<0.0025
9/24/2012				<0.0025				
9/25/2012		<0.0025						
9/26/2012	<0.0025							
3/12/2013				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/13/2013	<0.0025	<0.0025	<0.0025					
9/9/2013					<0.0025			
9/10/2013			<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
9/11/2013	<0.0025	<0.0025						
3/5/2014				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/11/2014	<0.0025	<0.0025	<0.0025					
9/3/2014			<0.0025					<0.0025
9/8/2014					<0.0025	<0.0025		
9/9/2014	<0.0025	<0.0025		<0.0025			<0.0025	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.0025		0.0015		0.00029 (J)
4/22/2015					<0.0025		<0.0025	
4/23/2015		<0.0025	<0.0025					
9/29/2015				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/30/2015	<0.0025	<0.0025	<0.0025					
3/23/2016		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/24/2016	<0.0025							
5/17/2016				<0.0025	<0.0025			
5/18/2016	<0.0025	<0.0025				<0.0025	<0.0025	<0.0025
5/19/2016			<0.0025					
7/6/2016				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
7/7/2016	0.0001 (J)	<0.0025	<0.0025					
9/7/2016				<0.0025	<0.0025	<0.0025		
9/8/2016	<0.0025	<0.0025	<0.0025				<0.0025	<0.0025
10/18/2016				<0.0025	<0.0025	<0.0025	<0.0025	
10/19/2016	<0.0025	<0.0025	<0.0025					<0.0025
12/7/2016	<0.0025	<0.0025	<0.0025					
12/8/2016				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/1/2017				<0.0025	<0.0025			
2/2/2017	0.0001 (J)	<0.0025				0.0001 (J)	8E-05 (J)	8E-05 (J)
2/3/2017			8E-05 (J)					
3/23/2017				<0.0025	<0.0025			
3/24/2017						<0.0025	<0.0025	
3/27/2017	<0.0025	<0.0025	<0.0025					<0.0025
10/4/2017				<0.0025	<0.0025	<0.0025		
10/5/2017	<0.0025	<0.0025	<0.0025				<0.0025	<0.0025
3/14/2018							<0.0025	
3/15/2018	<0.0025	<0.0025	<0.0025			<0.0025		<0.0025
3/16/2018				<0.0025	<0.0025			
10/4/2018	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	
10/5/2018			<0.0025					<0.0025
4/8/2019			<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/9/2019	<0.0025	<0.0025		<0.0025				
10/1/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/26/2020			<0.0025					
3/27/2020							<0.0025	<0.0025
3/30/2020						<0.0025		
3/31/2020	<0.0025	<0.0025		<0.0025	<0.0025			

# Time Series

Constituent: Calcium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/22/2016	13.9	23.8	47.4	79.3	123				
3/23/2016						43.9			56.3
3/24/2016							40.7	43.9	
5/17/2016	15.6	21.5	45.5	75.8	99.2	40.1			
5/18/2016							41.9	48.2	59
7/5/2016	15.7		40.5	65.3					
7/6/2016		20.6			109	32.3		45.8	
7/7/2016							36.8		50.9
9/7/2016	18.2	16.7	37.3	59.8	67.2	28.9			
9/8/2016							35.9	40.9	48
10/18/2016	17.7	20.3	46.6	72.4	77.9	35.4		45.5	
10/19/2016							38.7		49.7
12/6/2016	16.9	19.7		78.6	93.3	34.3			
12/7/2016			43.5					40.6	46.4
12/8/2016							39.4		
1/31/2017	17.9		39.2						
2/1/2017		18.1		85	92.8				
2/2/2017						38.1	41.5	42.4	
2/3/2017									49
3/23/2017	13.9		38.7	81.2					
3/24/2017		21.1			96.3				
3/27/2017						45.4	39.1	45.5	50.7
10/4/2017	15.9		36.5	78.8	75.1				
10/5/2017		20.1				35.8	41.6	42.9	52
3/14/2018	<25		39.5						
3/15/2018		<25		83.5	69.9	52.4		43.3	
3/16/2018							45.9		53.4
5/15/2018						48.4			
5/16/2018							40		
10/4/2018	15.9 (J)	21.3 (J)	41.7	75.2	77.8	51.2		43.7	
10/5/2018							39.6		52.7
12/11/2018						49.3			
4/5/2019				76.5					
4/8/2019	15.7	22.4	44.1		86.6				
4/9/2019						48.8	41.4	45.8	57.1
9/30/2019	17.6	19.6	44.6	74.7	78.3				
10/1/2019						36.8	38.7	42.3	59.1
3/26/2020	14	22.4	43.2	78.7	87.4				
3/27/2020						22.9			
3/30/2020							45.7		
3/31/2020								52.3	63.6

# Time Series

Constituent: Calcium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016		49.9	36.4	79	64.1	45.2	69.1	36
3/24/2016	31.4							
5/17/2016				74.6	62.8			
5/18/2016	39.2	50.7				46.5	63.7	37.3
5/19/2016			41.5					
7/6/2016				66.9	59.5	29.1	56.8	32.8
7/7/2016	36	45.5	33.5					
9/7/2016				61.6	53.7	19.2		
9/8/2016	70	46.8	34.7				51.3	32.1
10/18/2016				71.6	62.3	22.6	52.6	
10/19/2016	63	47.3	33.4					35
12/7/2016	54.7	45.3	35.5					
12/8/2016				67.6	58.8	17.5	43.7	33.4
2/1/2017				82.5	59.6			
2/2/2017	37.4	49.9				54.4	56.5	34.3
2/3/2017			31.7					
3/23/2017				84.4	62.9			
3/24/2017						56.8	64.4	
3/27/2017	20.9	45.8	32					34.9
10/4/2017				70.8	62.4	30.5		
10/5/2017	26.8	47.3	41				59.9	34.7
3/14/2018							58.8	
3/15/2018	62.8	46.8	39.8			43.4		35.3
3/16/2018				78.1	66.9			
10/4/2018	48.6	50.4		73	65.5	26.1	264 (o)	
10/5/2018			39.3					37.8
12/11/2018							64.3	
4/8/2019			39.8		67	56.1	81.5	36.3
4/9/2019	35.4	47.3		73.9				
6/18/2019							83.7	
6/27/2019							75.9	
10/1/2019	82.8	46.9	39.1	70.6	64.2	28.5	64	37.2
11/6/2019	74.9							
11/26/2019	45.8							
3/26/2020			44.7					
3/27/2020							87.3	34.3
3/30/2020						47.8		
3/31/2020	25.6	51.5		84.2	70.6			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/22/2016	1.1933	1.3137	2.0975	4.0352	5.549				
3/23/2016						1.3507			1.4238
3/24/2016							1.1313	1.6497	
5/17/2016	1.14	1.29	2.1	3.81	6.74	1.28			
5/18/2016								1.74	1.57
5/19/2016							1.13		
7/5/2016	1.4		2.4	4					
7/6/2016		1.6			5.2	1.5		2.1	
7/7/2016							1.5		1.7
9/7/2016	1	1.5	2.5	4.2	7.2	1.5			
9/8/2016							1.4	1.9	1.5
10/18/2016	1.1	1.6	2.7	4.4	7.4	1.4		2.1	
10/19/2016							1.4		1.7
12/6/2016	1	1.2		4.6	7.6	1.3			
12/7/2016			2.6					2	1.8
12/8/2016							1.4		
1/31/2017	1.2		2.5						
2/1/2017		2.1		3.7	8.5				
2/2/2017						1.8	1.6	2.3	
2/3/2017									2
3/23/2017	1.1		2	3.5					
3/24/2017		1.3			7				
3/27/2017						1.7	1.5	2.1	1.8
10/4/2017	1.1		2.2	3.6	7.4				
10/5/2017		1.3				1.5	1.4	1.9	5.5 (o)
12/14/2017									1.5
3/14/2018	1.2		2.4						
3/15/2018		1.6		3.8	1.7	2		1.9	
3/16/2018							1.5		1.9
5/15/2018						1.4			
10/4/2018	1.4	1.8	2.5	3.4	6.1	2.1		2	
10/5/2018							1.5		2.2
12/11/2018						1.9			1.8
4/5/2019				4.2					
4/8/2019	1.1	1.3	2.6		3.6				
4/9/2019						1.9	1.6	1.9	1.8
9/30/2019	1.4	1.5	3	4.1	7.5				
10/1/2019						1.5	0.94 (J)	1.3	1.1
3/26/2020	1.1	1.4	2	2.6	5.4				
3/27/2020						1.2			
3/30/2020							1		
3/31/2020								1.3	1.1

# Time Series

Constituent: Chloride (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016		1.2595	1.5409	2.5045	1.7709	1.1569	1.4936	0.9561
3/24/2016	2.461							
5/17/2016				2.47	1.75			
5/18/2016	2.61	1.25				1.35		
5/19/2016			1.23				1.35	0.972
7/6/2016				2.9	2	1.9	1.6	1.3
7/7/2016	2.8	1.7	1.7					
9/7/2016				2.8	2	1.7		
9/8/2016	2.3	1.5	1.6				1.4	1
10/18/2016				2.8	2	1.8	1.4	
10/19/2016	2.4	1.6	1.6					1.1
12/7/2016	2.2	1.5	1.7					
12/8/2016				3.1	2	1.6	1.5	1.3
2/1/2017				3.8	2.2			
2/2/2017	3.4	1.8				2	1.7	1.6
2/3/2017			1.9					
3/23/2017				3.4	2			
3/24/2017						1.3	2.1	
3/27/2017	2.7	1.5	1.7					1.4
10/4/2017				3.7	1.7	1.7		
10/5/2017	3.3	1.6	1.4				2	1.1
3/14/2018							2.1	
3/15/2018	3.6	1.7	1.6			1.9		1.3
3/16/2018				3.2	2.1			
5/15/2018	3.2							
10/4/2018	2.4	1.7		3.2	2.2	2	2.3	
10/5/2018			1.6					1.6
12/11/2018							2.3	
1/11/2019							2.8	
4/8/2019			1.5		2.1	1.9	3.2	1
4/9/2019	2.6	1.7		3.3				
10/1/2019	2	1.4	1.1	2.2	1.6	1.2	1.8	0.91 (J)
3/26/2020			0.63 (J)					
3/27/2020							2.5	0.74 (J)
3/30/2020						9.2		
3/31/2020	1.5	1		2	1.5			

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.01		<0.01	<0.01	<0.01			<0.01	
3/7/2007		<0.01				<0.01	<0.01		<0.01
5/8/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
5/9/2007							<0.01	<0.01	<0.01
7/7/2007	<0.01		<0.01						
7/17/2007		<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/28/2007	<0.01	0.0013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
8/29/2007									0.0016
11/6/2007	<0.01		<0.01	0.0014	<0.01				
11/7/2007		0.0024				<0.01	<0.01	<0.01	0.0016
5/7/2008							<0.01	<0.01	<0.01
5/8/2008				<0.01	<0.01				
5/9/2008	<0.01	<0.01	<0.01			<0.01			
12/2/2008		<0.01				<0.01			
12/3/2008	<0.01		<0.01	<0.01	<0.01		<0.01		
12/4/2008								<0.01	
12/5/2008									<0.01
4/7/2009	<0.01		<0.01	<0.01	<0.01				
4/8/2009		<0.01				<0.01			
4/14/2009							<0.01	<0.01	<0.01
9/30/2009									<0.01
10/1/2009	<0.01	<0.01	<0.01			<0.01	<0.01		
10/2/2009				<0.01	<0.01			<0.01	
4/13/2010			<0.01				<0.01	<0.01	<0.01
4/14/2010	<0.01	<0.01		<0.01	<0.01	<0.01			
10/7/2010			<0.01						
10/12/2010							<0.01	<0.01	<0.01
10/13/2010	<0.01	<0.01				<0.01			
10/14/2010				<0.01	<0.01				
4/5/2011				<0.01	<0.01				
4/6/2011	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	
10/4/2011		<0.01				<0.01			
10/6/2011			<0.01						
10/10/2011	<0.01								
10/12/2011				<0.01	<0.01		<0.01	<0.01	<0.01
4/3/2012	<0.01		<0.01						
4/4/2012				<0.01	<0.01				
4/5/2012							<0.01	<0.01	
4/9/2012									<0.01
4/10/2012		<0.01				<0.01			
9/19/2012			<0.01				<0.01		
9/24/2012	<0.01				<0.01				
9/25/2012								<0.01	<0.01
9/26/2012		<0.01		<0.01		<0.01			
3/12/2013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
3/13/2013							<0.01	<0.01	<0.01
9/9/2013			<0.01						
9/10/2013		<0.01		<0.01	<0.01	<0.01	<0.01		
9/11/2013	<0.01							<0.01	<0.01
3/4/2014	0.00032 (J)	<0.01	<0.01			<0.01			
3/10/2014							<0.01	<0.01	<0.01
3/11/2014				<0.01	<0.01				



# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.01	<0.01	<0.01			<0.01	<0.01		
9/8/2014				<0.01	<0.01				
9/9/2014								<0.01	<0.01
4/21/2015	<0.01	<0.01		<0.01	<0.01	<0.01			
4/22/2015			<0.01				<0.01	<0.01	
4/23/2015									<0.01
9/29/2015		<0.01		<0.01	<0.01				
9/30/2015	<0.01		<0.01			<0.01	<0.01	<0.01	<0.01
3/22/2016	<0.01	<0.01	<0.01	<0.01	<0.01				
3/23/2016						<0.01			<0.01
3/24/2016							<0.01	<0.01	
5/17/2016	<0.01	<0.01	<0.01	<0.01	<0.01	0.00424 (J)			
5/18/2016							<0.01	<0.01	<0.01
7/5/2016	<0.01		<0.01	<0.01					
7/6/2016		<0.01			<0.01	<0.01		<0.01	
7/7/2016							<0.01		<0.01
9/7/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
9/8/2016							<0.01	<0.01	<0.01
10/18/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
10/19/2016							<0.01		0.0064 (J)
12/6/2016	<0.01	0.0018 (J)		<0.01	<0.01	0.0013 (J)			
12/7/2016			<0.01					<0.01	<0.01
12/8/2016							<0.01		
1/31/2017	<0.01		<0.01						
2/1/2017		<0.01		<0.01	<0.01				
2/2/2017						0.001 (J)	<0.01	<0.01	
2/3/2017									<0.01
3/23/2017	<0.01		<0.01	<0.01					
3/24/2017		<0.01			0.0004 (J)				
3/27/2017						<0.01	<0.01	<0.01	<0.01
10/4/2017	<0.01		<0.01	<0.01	<0.01				
10/5/2017		<0.01				<0.01	<0.01	0.0012 (J)	<0.01
3/14/2018	0.016		<0.01						
3/15/2018		<0.01		<0.01	<0.01	<0.01		<0.01	
3/16/2018							<0.01		<0.01
10/4/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
10/5/2018							<0.01		<0.01
4/5/2019				<0.01					
4/8/2019	<0.01	<0.01	<0.01		<0.01				
4/9/2019						<0.01	<0.01	<0.01	<0.01
9/30/2019	<0.01	<0.01	<0.01	<0.01	<0.01				
10/1/2019						<0.01	0.00086 (J)	<0.01	<0.01
3/26/2020	<0.01	<0.01	0.00043 (J)	0.00062 (J)	0.0013 (J)				
3/27/2020						<0.01			
3/30/2020							0.00071 (J)		
3/31/2020								0.00042 (J)	<0.01

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.01	<0.01	<0.01					
3/7/2007				<0.01	<0.01			<0.01
5/8/2007				<0.01				0.0013
5/9/2007	<0.01	0.002	0.0013		<0.01	0.11 (o)	<0.01	
7/6/2007				<0.01		0.0029	<0.01	<0.01
7/17/2007	<0.01	<0.01	<0.01		<0.01			
8/28/2007				<0.01	<0.01	0.0038	<0.01	0.0014
8/29/2007	<0.01	<0.01	<0.01					
11/6/2007				<0.01	<0.01	<0.01	0.0035	0.0024
11/7/2007	<0.01	0.0013	<0.01					
5/7/2008	<0.01	<0.01	<0.01					
5/8/2008				<0.01	<0.01	<0.01	<0.01	<0.01
12/2/2008						<0.01	<0.01	<0.01
12/3/2008				<0.01	<0.01			
12/5/2008	<0.01	<0.01	<0.01					
4/7/2009				<0.01	<0.01			
4/8/2009						<0.01	<0.01	<0.01
4/14/2009		<0.01	<0.01					
4/27/2009	<0.01							
9/30/2009	<0.01	<0.01					<0.01	<0.01
10/1/2009			<0.01	<0.01	<0.01	0.0016		
4/13/2010	<0.01	<0.01			<0.01	<0.01	<0.01	<0.01
4/14/2010			<0.01	<0.01				
10/6/2010					<0.01			
10/7/2010						<0.01		
10/12/2010	<0.01	<0.01						
10/13/2010			<0.01				<0.01	<0.01
10/14/2010				<0.01				
4/5/2011				<0.01	<0.01	<0.01	<0.01	<0.01
4/6/2011		<0.01	<0.01					
10/4/2011					<0.01	0.0018	<0.01	<0.01
10/5/2011	<0.01	<0.01						
10/12/2011			<0.01	<0.01				
4/3/2012					<0.01	<0.01	<0.01	
4/4/2012				<0.01				<0.01
4/9/2012		<0.01	<0.01					
4/10/2012	<0.01							
9/18/2012					<0.01	<0.01		
9/19/2012			<0.01				<0.01	<0.01
9/24/2012				<0.01				
9/25/2012		<0.01						
9/26/2012	<0.01							
3/12/2013				<0.01	<0.01	<0.01	<0.01	<0.01
3/13/2013	<0.01	<0.01	<0.01					
9/9/2013					<0.01			
9/10/2013			<0.01	<0.01		<0.01	0.0017	<0.01
9/11/2013	<0.01	<0.01						
3/5/2014				<0.01	<0.01	<0.01	<0.01	<0.01
3/11/2014	<0.01	<0.01	<0.01					
9/3/2014			<0.01					<0.01
9/8/2014					<0.01	<0.01		
9/9/2014	0.0015	<0.01		<0.01			<0.01	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.01		<0.01		<0.01
4/22/2015					<0.01		<0.01	
4/23/2015		<0.01	<0.01					
9/29/2015				<0.01	<0.01	<0.01	<0.01	<0.01
9/30/2015	<0.01	<0.01	<0.01					
3/23/2016		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/24/2016	<0.01							
5/17/2016				<0.01	<0.01			
5/18/2016	<0.01	<0.01				<0.01	<0.01	<0.01
5/19/2016			<0.01					
7/6/2016				<0.01	<0.01	<0.01	<0.01	<0.01
7/7/2016	<0.01	<0.01	<0.01					
9/7/2016				<0.01	<0.01	<0.01		
9/8/2016	<0.01	<0.01	<0.01				<0.01	<0.01
10/18/2016				<0.01	<0.01	<0.01	<0.01	
10/19/2016	<0.01	<0.01	<0.01					<0.01
12/7/2016	<0.01	<0.01	<0.01					
12/8/2016				<0.01	<0.01	<0.01	<0.01	<0.01
2/1/2017				<0.01	<0.01			
2/2/2017	<0.01	<0.01				<0.01	<0.01	<0.01
2/3/2017			<0.01					
3/23/2017				<0.01	<0.01			
3/24/2017						0.0011 (J)	<0.01	
3/27/2017	<0.01	<0.01	<0.01					<0.01
10/4/2017				<0.01	<0.01	<0.01		
10/5/2017	<0.01	<0.01	<0.01				0.0005 (J)	<0.01
3/14/2018							<0.01	
3/15/2018	<0.01	<0.01	<0.01			<0.01		<0.01
3/16/2018				<0.01	<0.01			
10/4/2018	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	
10/5/2018			<0.01					<0.01
4/8/2019			<0.01		<0.01	<0.01	<0.01	<0.01
4/9/2019	<0.01	0.0023 (J)		<0.01				
10/1/2019	<0.01	<0.01	0.0051 (J)	0.0012 (J)	<0.01	<0.01	0.0005 (J)	<0.01
3/26/2020			<0.01					
3/27/2020							<0.01	<0.01
3/30/2020						0.00041 (J)		
3/31/2020	0.00093 (J)	0.0015 (J)		<0.01	0.00085 (J)			

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.005		<0.005	<0.005	<0.005			<0.005	
3/7/2007		<0.005				<0.005	<0.005		<0.005
5/8/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
5/9/2007							<0.005	<0.005	<0.005
7/7/2007	<0.005		<0.005						
7/17/2007		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/28/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/29/2007									<0.005
11/6/2007	<0.005		<0.005	<0.005	<0.005				
11/7/2007		<0.005				<0.005	<0.005	<0.005	<0.005
5/7/2008							<0.005	<0.005	<0.005
5/8/2008				<0.005	<0.005				
5/9/2008	<0.005	<0.005	<0.005			<0.005			
12/2/2008		<0.005				<0.005			
12/3/2008	<0.005		<0.005	<0.005	<0.005		<0.005		
12/4/2008								<0.005	
12/5/2008									<0.005
4/7/2009	<0.005		<0.005	<0.005	<0.005				
4/8/2009		<0.005				<0.005			
4/14/2009							<0.005	<0.005	<0.005
9/30/2009									<0.005
10/1/2009	<0.005	<0.005	<0.005			<0.005	<0.005		
10/2/2009				<0.005	<0.005			<0.005	
4/13/2010			<0.005				<0.005	<0.005	<0.005
4/14/2010	<0.005	<0.005		<0.005	<0.005	<0.005			
10/7/2010			<0.005						
10/12/2010							<0.005	<0.005	<0.005
10/13/2010	<0.005	<0.005				<0.005			
10/14/2010				<0.005	<0.005				
4/5/2011				<0.005	<0.005				
4/6/2011	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	
10/4/2011		<0.005				<0.005			
10/6/2011			<0.005						
10/10/2011	<0.005								
10/12/2011				<0.005	<0.005		<0.005	<0.005	<0.005
4/3/2012	<0.005		<0.005						
4/4/2012				<0.005	<0.005				
4/5/2012							<0.005	<0.005	
4/9/2012									<0.005
4/10/2012		<0.005				<0.005			
9/19/2012			<0.005				<0.005		
9/24/2012	<0.005				0.0016				
9/25/2012								<0.005	<0.005
9/26/2012		<0.005		<0.005		<0.005			
3/12/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
3/13/2013							<0.005	<0.005	<0.005
9/9/2013			<0.005						
9/10/2013		<0.005		<0.005	0.002	<0.005	<0.005		
9/11/2013	<0.005							<0.005	<0.005
3/4/2014	0.00043 (J)	0.00047 (J)	<0.005			<0.005			
3/10/2014							<0.005	<0.005	<0.005
3/11/2014				<0.005	<0.005				

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	0.00076 (J)	0.00065 (J)	<0.005			<0.005	<0.005		
9/8/2014				<0.005	0.001 (J)				
9/9/2014								<0.005	<0.005
4/21/2015	0.00051 (J)	0.00062 (J)		<0.005	<0.005	<0.005			
4/22/2015			<0.005				<0.005	<0.005	
4/23/2015									<0.005
9/29/2015		0.0009 (J)		<0.005	0.0025 (J)				
9/30/2015	0.0006 (J)		<0.005			<0.005	<0.005	<0.005	<0.005
3/22/2016	<0.005	<0.005	<0.005	<0.005	<0.005				
3/23/2016						<0.005			<0.005
3/24/2016							<0.005	<0.005	
5/17/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
5/18/2016							<0.005	<0.005	<0.005
7/5/2016	0.0004 (J)		<0.005	0.0003 (J)					
7/6/2016		0.0009 (J)			0.0004 (J)	<0.005		<0.005	
7/7/2016							<0.005		<0.005
9/7/2016	<0.005	0.0011 (J)	<0.005	<0.005	0.0008 (J)	<0.005			
9/8/2016							<0.005	<0.005	<0.005
10/18/2016	<0.005	0.0011 (J)	<0.005	<0.005	<0.005	<0.005		<0.005	
10/19/2016							<0.005		<0.005
12/6/2016	0.0006 (J)	0.0011 (J)		0.0007 (J)	0.0026 (J)	<0.005			
12/7/2016			<0.005					<0.005	<0.005
12/8/2016							<0.005		
1/31/2017	0.0006 (J)		<0.005						
2/1/2017		0.0011 (J)		<0.005	0.0013 (J)				
2/2/2017						<0.005	<0.005	<0.005	
2/3/2017									<0.005
3/23/2017	0.0007 (J)		<0.005	<0.005					
3/24/2017		0.0008 (J)			0.0014 (J)				
3/27/2017						<0.005	<0.005	<0.005	<0.005
10/4/2017	0.0006 (J)		<0.005	<0.005	0.0012 (J)				
10/5/2017		0.0008 (J)				<0.005	<0.005	<0.005	<0.005
3/14/2018	<0.005		<0.005						
3/15/2018		<0.005		<0.005	<0.005	<0.005		<0.005	
3/16/2018							<0.005		<0.005
10/4/2018	0.00058 (J)	0.00072 (J)	<0.005	<0.005	<0.005	<0.005		<0.005	
10/5/2018							<0.005		<0.005
4/5/2019				0.00031 (J)					
4/8/2019	0.00026 (J)	0.00076 (J)	6.1E-05 (J)		0.00044 (J)				
4/9/2019						<0.005	<0.005	<0.005	<0.005
9/30/2019	0.00042 (J)	0.00054 (J)	<0.005	<0.005	0.00079 (J)				
10/1/2019						<0.005	<0.005	<0.005	<0.005
3/26/2020	0.00049 (J)	0.00063 (J)	<0.005	<0.005	0.00082 (J)				
3/27/2020						0.00082 (J)			
3/30/2020							<0.005		
3/31/2020								<0.005	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.005	<0.005	<0.005					
3/7/2007				<0.005	<0.005			<0.005
5/8/2007				<0.005				<0.005
5/9/2007	<0.005	<0.005	<0.005		<0.005	6.5 (o)	<0.005	
7/6/2007				<0.005		2.1 (o)	<0.005	<0.005
7/17/2007	<0.005	<0.005	<0.005		<0.005			
8/28/2007				<0.005	<0.005	1.4 (o)	<0.005	<0.005
8/29/2007	<0.005	<0.005	<0.005					
11/6/2007				<0.005	<0.005	1.1 (o)	<0.005	<0.005
11/7/2007	<0.005	<0.005	<0.005					
5/7/2008	<0.005	<0.005	<0.005					
5/8/2008				<0.005	<0.005	0.75	<0.005	<0.005
12/2/2008						0.41	<0.005	<0.005
12/3/2008				<0.005	<0.005			
12/5/2008	<0.005	<0.005	<0.005					
4/7/2009				<0.005	<0.005			
4/8/2009						0.38	<0.005	<0.005
4/14/2009		<0.005	<0.005					
4/27/2009	<0.005							
9/30/2009	<0.005	<0.005					<0.005	<0.005
10/1/2009			<0.005	<0.005	<0.005	0.29		
4/13/2010	<0.005	<0.005			<0.005	0.26	<0.005	<0.005
4/14/2010			<0.005	<0.005				
10/6/2010					<0.005			
10/7/2010						0.24		
10/12/2010	<0.005	<0.005						
10/13/2010			<0.005				<0.005	<0.005
10/14/2010				<0.005				
4/5/2011				<0.005	<0.005	0.17	<0.005	<0.005
4/6/2011		<0.005	<0.005					
10/4/2011					<0.005	0.19	<0.005	<0.005
10/5/2011	<0.005	<0.005						
10/12/2011			<0.005	<0.005				
4/3/2012					<0.005	0.114	<0.005	
4/4/2012				<0.005				<0.005
4/9/2012		<0.005	<0.005					
4/10/2012	<0.005							
9/18/2012					<0.005	0.14		
9/19/2012			<0.005				<0.005	<0.005
9/24/2012				<0.005				
9/25/2012		<0.005						
9/26/2012	0.0033							
3/12/2013				<0.005	<0.005	0.041	<0.005	<0.005
3/13/2013	<0.005	<0.005	<0.005					
9/9/2013					<0.005			
9/10/2013			<0.005	<0.005		0.06	<0.005	<0.005
9/11/2013	0.0018	<0.005						
3/5/2014				<0.005	<0.005	0.049	<0.005	<0.005
3/11/2014	0.00029 (J)	<0.005	<0.005					
9/3/2014			<0.005					<0.005
9/8/2014					<0.005	0.068		
9/9/2014	0.0011 (J)	<0.005		<0.005			<0.005	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.005		0.043		<0.005
4/22/2015					<0.005		<0.005	
4/23/2015		<0.005	<0.005					
9/29/2015				<0.005	<0.005	0.0525	<0.005	<0.005
9/30/2015	<0.005	<0.005	<0.005					
3/23/2016		<0.005	<0.005	<0.005	<0.005	0.0172	<0.005	<0.005
3/24/2016	<0.005							
5/17/2016				<0.005	<0.005			
5/18/2016	<0.005	<0.005				0.021	<0.005	<0.005
5/19/2016			<0.005					
7/6/2016				<0.005	<0.005	0.0278	<0.005	0.0004 (J)
7/7/2016	0.0016 (J)	<0.005	<0.005					
9/7/2016				<0.005	<0.005	0.0334		
9/8/2016	0.0006 (J)	<0.005	<0.005				<0.005	<0.005
10/18/2016				<0.005	<0.005	0.0368	<0.005	
10/19/2016	0.0006 (J)	<0.005	<0.005					<0.005
12/7/2016	0.0006 (J)	<0.005	<0.005					
12/8/2016				<0.005	<0.005	0.0419	<0.005	<0.005
2/1/2017				<0.005	<0.005			
2/2/2017	<0.005	<0.005				0.0113	<0.005	<0.005
2/3/2017			<0.005					
3/23/2017				0.0007 (J)	<0.005			
3/24/2017						0.0094 (J)	<0.005	
3/27/2017	0.001 (J)	<0.005	<0.005					<0.005
10/4/2017				<0.005	<0.005	0.0237		
10/5/2017	0.0051 (J)	<0.005	<0.005				0.0003 (J)	0.0004 (J)
3/14/2018							<0.005	
3/15/2018	<0.005	<0.005	<0.005			0.014		<0.005
3/16/2018				<0.005	<0.005			
10/4/2018	0.0065 (J)	<0.005		<0.005	<0.005	0.024	<0.005	
10/5/2018			0.00058 (J)					<0.005
4/8/2019			0.00046 (J)		0.00022 (J)	0.0086 (J)	0.0017 (J)	0.00041 (J)
4/9/2019	0.0023 (J)	<0.005		<0.005				
10/1/2019	0.00046 (J)	<0.005	0.00033 (J)	<0.005	<0.005	0.017	0.00081 (J)	0.00041 (J)
3/26/2020			0.00035 (J)					
3/27/2020							0.0016 (J)	0.00063 (J)
3/30/2020						0.012		
3/31/2020	0.0019 (J)	<0.005		<0.005	<0.005			

# Time Series

Constituent: Copper (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.005		<0.005	<0.005	<0.005			<0.005	
3/7/2007		<0.005				0.0025	<0.005		<0.005
5/8/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
5/9/2007							<0.005	<0.005	<0.005
7/7/2007	<0.005		<0.005						
7/17/2007		<0.005		0.0028	<0.005	<0.005	<0.005	<0.005	<0.005
8/28/2007	<0.005	0.0032	0.0032	0.0039	0.0061	<0.005	<0.005	<0.005	
8/29/2007									<0.005
11/6/2007	<0.005		<0.005	<0.005	<0.005				
11/7/2007		0.0036				<0.005	0.0029	0.0035	0.0028
5/7/2008							<0.005	<0.005	<0.005
5/8/2008				<0.005	<0.005				
5/9/2008	<0.005	<0.005	<0.005			<0.005			
12/2/2008		<0.005				<0.005			
12/3/2008	<0.005		<0.005	<0.005	<0.005		<0.005		
12/4/2008								<0.005	
12/5/2008									<0.005
4/7/2009	<0.005		<0.005	<0.005	<0.005				
4/8/2009		<0.005				<0.005			
4/14/2009							<0.005	<0.005	<0.005
9/30/2009									<0.005
10/1/2009	<0.005	<0.005	<0.005			<0.005	<0.005		
10/2/2009				<0.005	<0.005			<0.005	
4/13/2010			<0.005				<0.005	<0.005	<0.005
4/14/2010	<0.005	<0.005		<0.005	<0.005	<0.005			
10/7/2010			<0.005						
10/12/2010							<0.005	<0.005	<0.005
10/13/2010	<0.005	<0.005				<0.005			
10/14/2010				<0.005	0.0066				
4/5/2011				<0.005	<0.005				
4/6/2011	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	
10/4/2011		<0.005							
10/6/2011			<0.005						
10/10/2011	<0.005								
10/12/2011				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/3/2012	<0.005		<0.005						
4/4/2012				<0.005	<0.005				
4/5/2012							<0.005	<0.005	
4/9/2012									<0.005
4/10/2012		<0.005				<0.005			
9/19/2012			<0.005				<0.005		
9/24/2012	<0.005				<0.005				
9/25/2012								<0.005	<0.005
9/26/2012		<0.005		<0.005		<0.005			
3/12/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
3/13/2013							<0.005	<0.005	<0.005
9/9/2013			<0.005						
9/10/2013		<0.005		<0.005	<0.005	<0.005	<0.005		
9/11/2013	<0.005							<0.005	<0.005
3/4/2014	<0.005	<0.005	<0.005			<0.005			
3/10/2014							<0.005	<0.005	<0.005
3/11/2014				<0.005	<0.005				



# Time Series

Constituent: Copper (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.005	<0.005	0.0011 (J)			<0.005	0.00099 (J)		
9/8/2014				<0.005	<0.005				
9/9/2014								<0.005	<0.005
4/21/2015	<0.005	<0.005		<0.005	<0.005	<0.005			
4/22/2015			<0.005				<0.005	<0.005	
4/23/2015									<0.005
9/29/2015		<0.005		<0.005	<0.005				
9/30/2015	<0.005		<0.005			<0.005	<0.005	<0.005	<0.005
3/22/2016	<0.005	<0.005	<0.005	<0.005	<0.005				
3/23/2016						<0.005			<0.005
3/24/2016							<0.005	<0.005	
9/7/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
9/8/2016							<0.005	<0.005	<0.005
3/23/2017	<0.005		<0.005	<0.005					
3/24/2017		<0.005			<0.005				
3/27/2017						<0.005	<0.005	0.0004 (J)	<0.005
10/4/2017	<0.005		<0.005	<0.005	<0.005				
10/5/2017		<0.005				<0.005	<0.005	0.0005 (J)	<0.005
3/14/2018	<0.005		<0.005						
3/15/2018		<0.005		<0.005	<0.005	<0.005		<0.005	
3/16/2018							<0.005		<0.005
10/4/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
10/5/2018							<0.005		<0.005
4/5/2019				<0.005					
4/8/2019	<0.005	0.0013 (J)	0.00029 (J)		<0.005				
4/9/2019						<0.005	<0.005	0.0014 (J)	<0.005
9/30/2019	<0.005	<0.005	<0.005	<0.005	<0.005				
10/1/2019						<0.005	0.00037 (J)	0.00019 (J)	0.00023 (J)
3/26/2020	<0.005	<0.005	<0.005	0.00022 (J)	<0.005				
3/27/2020						0.00022 (J)			
3/30/2020							<0.005		
3/31/2020								<0.005	<0.005

# Time Series

Constituent: Copper (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.005	<0.005	<0.005					
3/7/2007				0.0027	<0.005			0.0043
5/8/2007				0.0026				<0.005
5/9/2007	<0.005	<0.005	<0.005		<0.005	0.44 (o)	<0.005	
7/6/2007				<0.005		0.016	<0.005	<0.005
7/17/2007	<0.005	<0.005	<0.005		<0.005			
8/28/2007				0.0036	<0.005	0.0091	<0.005	<0.005
8/29/2007	<0.005	<0.005	<0.005					
11/6/2007				<0.005	<0.005	<0.005	<0.005	<0.005
11/7/2007	0.0029	0.0033	0.0084					
5/7/2008	0.0026	<0.005	<0.005					
5/8/2008				<0.005	<0.005	<0.005	<0.005	<0.005
12/2/2008						0.003	<0.005	<0.005
12/3/2008				<0.005	<0.005			
12/5/2008	<0.005	<0.005	<0.005					
4/7/2009				<0.005	<0.005			
4/8/2009						<0.005	<0.005	<0.005
4/14/2009		<0.005	<0.005					
4/27/2009	<0.005							
9/30/2009	<0.005	<0.005					<0.005	<0.005
10/1/2009			<0.005	<0.005	<0.005	<0.005		
4/13/2010	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
4/14/2010			<0.005	<0.005				
10/6/2010					<0.005			
10/7/2010						<0.005		
10/12/2010	<0.005	<0.005						
10/13/2010			<0.005				<0.005	<0.005
10/14/2010				<0.005				
4/5/2011				<0.005	<0.005	<0.005	<0.005	<0.005
4/6/2011		<0.005	<0.005					
10/4/2011					<0.005	<0.005	<0.005	<0.005
10/5/2011	<0.005	<0.005						
10/12/2011			<0.005	<0.005				
4/3/2012					<0.005	<0.005	<0.005	
4/4/2012				<0.005				<0.005
4/9/2012		<0.005	<0.005					
4/10/2012	<0.005							
9/18/2012					<0.005	<0.005		
9/19/2012			<0.005				<0.005	<0.005
9/24/2012				<0.005				
9/25/2012		<0.005						
9/26/2012	<0.005							
3/12/2013				<0.005	<0.005	<0.005	<0.005	<0.005
3/13/2013	<0.005	<0.005	<0.005					
9/9/2013					<0.005			
9/10/2013			<0.005	<0.005		<0.005	<0.005	<0.005
9/11/2013	<0.005	<0.005						
3/5/2014				<0.005	<0.005	<0.005	<0.005	<0.005
3/11/2014	<0.005	<0.005	<0.005					
9/3/2014			<0.005					<0.005
9/8/2014					<0.005	<0.005		
9/9/2014	0.0013 (J)	<0.005		<0.005			<0.005	

# Time Series

Constituent: Copper (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.005		0.00082 (J)		<0.005
4/22/2015					<0.005		<0.005	
4/23/2015		<0.005	<0.005					
9/29/2015				<0.005	<0.005	<0.005	<0.005	<0.005
9/30/2015	0.0008 (J)	<0.005	0.0012 (J)					
3/23/2016		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/24/2016	<0.005							
9/7/2016				<0.005	<0.005	<0.005		
9/8/2016	0.0006 (J)	<0.005	<0.005				<0.005	<0.005
3/23/2017				<0.005	<0.005			
3/24/2017						0.0007 (J)	<0.005	
3/27/2017	0.0005 (J)	<0.005	<0.005					<0.005
10/4/2017				<0.005	<0.005	<0.005		
10/5/2017	<0.005	<0.005	0.0003 (J)				<0.005	<0.005
3/14/2018							<0.005	
3/15/2018	<0.005	<0.005	0.0016 (J)			<0.005		<0.005
3/16/2018				<0.005	<0.005			
10/4/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
10/5/2018			<0.005					<0.005
4/8/2019			0.0005 (J)		<0.005	0.00025 (J)	<0.005	<0.005
4/9/2019	<0.005	<0.005		<0.005				
10/1/2019	0.00084 (J)	0.00031 (J)	0.00083 (J)	0.00031 (J)	0.00023 (J)	0.00034 (J)	0.00036 (J)	<0.005
3/26/2020			0.00067 (J)					
3/27/2020							<0.005	<0.005
3/30/2020						<0.005		
3/31/2020	0.00082 (J)	0.0002 (J)		0.00019 (J)	<0.005			

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/22/2016	0.119 (J)	0.0811 (J)	0.1252 (J)	0.1415 (J)	0.1754 (J)				
3/23/2016						0.1069 (J)			0.0905 (J)
3/24/2016							0.1459 (J)	0.1652 (J)	
5/17/2016	0.1049 (J)	0.0706 (J)	0.1091 (J)	0.1293 (J)	0.1385 (J)	0.0991 (J)			
5/18/2016								0.1459 (J)	0.0864 (J)
5/19/2016							0.1408 (J)		
7/5/2016	0.1 (J)		0.16 (J)	0.21 (J)					
7/6/2016		0.09 (J)			0.22 (J)	0.09 (J)		0.21 (J)	
7/7/2016							0.2 (J)		0.16 (J)
9/7/2016	0.13 (J)	0.04 (J)	0.18 (J)	0.21 (J)	0.2 (J)	0.13 (J)			
9/8/2016							0.14 (J)	0.15 (J)	0.08 (J)
10/18/2016	0.15 (J)	0.07 (J)	0.13 (J)	0.15 (J)	0.16 (J)	0.16 (J)		0.19 (J)	
10/19/2016							0.14 (J)		0.09 (J)
12/6/2016	0.11 (J)	0.13 (J)		0.19 (J)	0.29 (J)	0.12 (J)			
12/7/2016			0.13 (J)					0.24 (J)	0.11 (J)
12/8/2016							0.16 (J)		
1/31/2017	0.02 (J)		0.04 (J)						
2/1/2017		<0.3		0.35	0.48				
2/2/2017						0.07 (J)	0.17 (J)	0.1 (J)	
2/3/2017									0.06 (J)
3/23/2017	0.08 (J)		0.08 (J)	0.39					
3/24/2017		0.01 (J)			0.12 (J)				
3/27/2017						0.05 (J)	0.11 (J)	0.11 (J)	0.04 (J)
10/4/2017	0.07 (J)		0.11 (J)	0.49	0.2 (J)				
10/5/2017		<0.3				0.11 (J)	0.13 (J)	0.13 (J)	0.05 (J)
3/14/2018	<0.3		<0.3						
3/15/2018		<0.3		<0.3	0.4	<0.3		<0.3	
3/16/2018							<0.3		<0.3
10/4/2018	0.17 (J)	0.15 (J)	0.25 (J)	0.24 (J)	0.24 (J)	0.16 (J)		0.21 (J)	
10/5/2018							0.21 (J)		0.17 (J)
4/5/2019				0.31					
4/8/2019	0.057 (J)	0.035 (J)	0.072 (J)		0.12 (J)				
4/9/2019						0.067 (J)	0.1 (J)	0.1 (J)	0.056 (J)
9/30/2019	0.11 (J)	0.099 (J)	0.14 (J)	0.15 (J)	0.17 (J)				
10/1/2019						0.07 (J)	0.11 (J)	0.11 (J)	0.069 (J)
3/26/2020	0.082 (J)	0.057 (J)	0.12 (J)	0.09 (J)	0.089 (J)				
3/27/2020						<0.3			
3/30/2020							0.1 (J)		
3/31/2020								0.099 (J)	0.054 (J)

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016		0.0886 (J)	0.1064 (J)	0.0582 (J)	0.0791 (J)	0.2004 (J)	0.1537 (J)	0.0993 (J)
3/24/2016	0.0445 (J)							
5/17/2016				0.0571 (J)	0.0712 (J)			
5/18/2016	0.0476 (J)	0.0839 (J)				0.1766 (J)		
5/19/2016			0.0928 (J)				0.1414 (J)	0.0936 (J)
7/6/2016				0.29 (J)	0.28 (J)	0.39	0.15 (J)	0.09 (J)
7/7/2016	0.12 (J)	0.08 (J)	0.13 (J)					
9/7/2016				0.08 (J)	0.08 (J)	0.53		
9/8/2016	0.11 (J)	0.11 (J)	0.12 (J)				0.35	0.11 (J)
10/18/2016				0.09 (J)	0.07 (J)	0.24 (J)	0.17 (J)	
10/19/2016	0.13 (J)	0.1 (J)	0.1 (J)					0.1 (J)
12/7/2016	0.23 (J)	0.09 (J)	0.1 (J)					
12/8/2016				0.06 (J)	0.13 (J)	0.24 (J)	0.15 (J)	0.11 (J)
2/1/2017				0.33	0.24 (J)			
2/2/2017	0.11 (J)	0.05 (J)				0.3 (J)	0.1 (J)	0.05 (J)
2/3/2017			0.12 (J)					
3/23/2017				0.07 (J)	0.04 (J)			
3/24/2017						0.22 (J)	0.14 (J)	
3/27/2017	0.01 (J)	0.08 (J)	0.14 (J)					0.07 (J)
10/4/2017				<0.3	0.03 (J)	0.19 (J)		
10/5/2017	<0.3	0.08 (J)	0.09 (J)				0.15 (J)	0.06 (J)
3/14/2018							0.4	
3/15/2018	<0.3	<0.3	<0.3			0.37		<0.3
3/16/2018				<0.3	<0.3			
5/16/2018							0.32	
10/4/2018	0.15 (J)	0.14 (J)		0.16 (J)	0.17 (J)	0.19 (J)	0.28 (J)	
10/5/2018			0.18 (J)					0.18 (J)
4/8/2019			0.057 (J)		<0.3	0.17 (J)	0.1 (J)	0.058 (J)
4/9/2019	0.063 (J)	0.063 (J)		0.061 (J)				
10/1/2019	0.094 (J)	0.079 (J)	0.079 (J)	0.064 (J)	0.063 (J)	0.16 (J)	0.13 (J)	0.078 (J)
3/26/2020			0.064 (J)					
3/27/2020							0.12 (J)	0.078 (J)
3/30/2020						0.16 (J)		
3/31/2020	<0.3	0.055 (J)		<0.3	0.053 (J)			

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.005		<0.005	<0.005	<0.005			<0.005	
3/7/2007		<0.005				<0.005	<0.005		<0.005
5/8/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
5/9/2007							<0.005	<0.005	<0.005
7/7/2007	<0.005		<0.005						
7/17/2007		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/28/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/29/2007									<0.005
11/6/2007	<0.005		<0.005	<0.005	<0.005				
11/7/2007		<0.005				<0.005	<0.005	<0.005	<0.005
5/7/2008							<0.005	<0.005	<0.005
5/8/2008				<0.005	<0.005				
5/9/2008	<0.005	<0.005	<0.005			<0.005			
12/2/2008		<0.005				<0.005			
12/3/2008	<0.005		<0.005	<0.005	<0.005		<0.005		
12/4/2008								<0.005	
12/5/2008									<0.005
4/7/2009	<0.005		<0.005	<0.005	<0.005				
4/8/2009		<0.005				<0.005			
4/14/2009							<0.005	<0.005	<0.005
9/30/2009									<0.005
10/1/2009	<0.005	<0.005	<0.005			<0.005	<0.005		
10/2/2009				<0.005	<0.005			<0.005	
4/13/2010			<0.005				<0.005	<0.005	<0.005
4/14/2010	<0.005	<0.005		<0.005	<0.005	<0.005			
10/7/2010			<0.005						
10/12/2010							<0.005	<0.005	<0.005
10/13/2010	<0.005	<0.005				<0.005			
10/14/2010				<0.005	<0.005				
4/5/2011				<0.005	<0.005				
4/6/2011	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	
10/4/2011		<0.005				<0.005			
10/6/2011			<0.005						
10/10/2011	<0.005								
10/12/2011				<0.005	<0.005		<0.005	<0.005	<0.005
4/3/2012	<0.005		<0.005						
4/4/2012				<0.005	<0.005				
4/5/2012							<0.005	<0.005	
4/9/2012									<0.005
4/10/2012		<0.005				<0.005			
9/19/2012			<0.005				<0.005		
9/24/2012	<0.005				<0.005				
9/25/2012								<0.005	<0.005
9/26/2012		<0.005		<0.005		<0.005			
3/12/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
3/13/2013							<0.005	<0.005	<0.005
9/9/2013			<0.005						
9/10/2013		<0.005		<0.005	<0.005	<0.005	<0.005		
9/11/2013	<0.005							<0.005	<0.005
3/4/2014	<0.005	<0.005	<0.005			<0.005			
3/10/2014							<0.005	<0.005	<0.005
3/11/2014				<0.005	<0.005				

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.005	<0.005	<0.005			<0.005	<0.005		
9/8/2014				<0.005	<0.005				
9/9/2014								<0.005	<0.005
4/21/2015	<0.005	<0.005		<0.005	<0.005	<0.005			
4/22/2015			<0.005				<0.005	<0.005	
4/23/2015									<0.005
9/29/2015		<0.005		<0.005	<0.005				
9/30/2015	<0.005		<0.005			<0.005	<0.005	<0.005	<0.005
3/22/2016	<0.005	<0.005	<0.005	<0.005	<0.005				
3/23/2016						<0.005			<0.005
3/24/2016							<0.005	<0.005	
5/17/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
5/18/2016							<0.005	<0.005	<0.005
7/5/2016	<0.005		<0.005	<0.005					
7/6/2016		<0.005			<0.005	<0.005		<0.005	
7/7/2016							<0.005		<0.005
9/7/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
9/8/2016							<0.005	<0.005	<0.005
10/18/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
10/19/2016							<0.005		<0.005
12/6/2016	<0.005	<0.005		<0.005	<0.005	<0.005			
12/7/2016			<0.005					<0.005	<0.005
12/8/2016							<0.005		
1/31/2017	<0.005		<0.005						
2/1/2017		<0.005		<0.005	<0.005				
2/2/2017						<0.005	<0.005	<0.005	
2/3/2017									<0.005
3/23/2017	<0.005		<0.005	<0.005					
3/24/2017		7E-05 (J)			<0.005				
3/27/2017						<0.005	<0.005	<0.005	7E-05 (J)
10/4/2017	<0.005		<0.005	<0.005	<0.005				
10/5/2017		<0.005				<0.005	<0.005	0.0002 (J)	<0.005
3/14/2018	<0.005		<0.005						
3/15/2018		<0.005		<0.005	<0.005	<0.005		<0.005	
3/16/2018							<0.005		<0.005
10/4/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
10/5/2018							<0.005		<0.005
4/5/2019				<0.005					
4/8/2019	<0.005	<0.005	<0.005		<0.005				
4/9/2019						<0.005	<0.005	<0.005	<0.005
9/30/2019	<0.005	<0.005	<0.005	<0.005	<0.005				
10/1/2019						<0.005	<0.005	<0.005	<0.005
3/26/2020	<0.005	<0.005	<0.005	4.7E-05 (J)	<0.005				
3/27/2020						5.4E-05 (J)			
3/30/2020							<0.005		
3/31/2020								6.1E-05 (J)	<0.005

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.005	<0.005	<0.005					
3/7/2007				<0.005	<0.005			<0.005
5/8/2007				<0.005				<0.005
5/9/2007	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	
7/6/2007				<0.005		<0.005	<0.005	<0.005
7/17/2007	<0.005	<0.005	<0.005		<0.005			
8/28/2007				<0.005	<0.005	<0.005	<0.005	<0.005
8/29/2007	<0.005	<0.005	<0.005					
11/6/2007				<0.005	<0.005	<0.005	<0.005	<0.005
11/7/2007	<0.005	<0.005	<0.005					
5/7/2008	<0.005	<0.005	<0.005					
5/8/2008				<0.005	<0.005	<0.005	<0.005	<0.005
12/2/2008						<0.005	<0.005	<0.005
12/3/2008				<0.005	<0.005			
12/5/2008	<0.005	<0.005	<0.005					
4/7/2009				<0.005	<0.005			
4/8/2009						<0.005	<0.005	<0.005
4/14/2009		<0.005	<0.005					
4/27/2009	<0.005							
9/30/2009	<0.005	<0.005					<0.005	<0.005
10/1/2009			<0.005	<0.005	<0.005	<0.005		
4/13/2010	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
4/14/2010			<0.005	<0.005				
10/6/2010					<0.005			
10/7/2010						<0.005		
10/12/2010	<0.005	<0.005						
10/13/2010			<0.005				<0.005	<0.005
10/14/2010				<0.005				
4/5/2011				<0.005	<0.005	<0.005	<0.005	<0.005
4/6/2011		<0.005	<0.005					
10/4/2011					<0.005	<0.005	<0.005	<0.005
10/5/2011	<0.005	<0.005						
10/12/2011			<0.005	<0.005				
4/3/2012					<0.005	<0.005	<0.005	
4/4/2012				<0.005				<0.005
4/9/2012		<0.005	<0.005					
4/10/2012	<0.005							
9/18/2012					<0.005	<0.005		
9/19/2012			<0.005				<0.005	<0.005
9/24/2012				<0.005				
9/25/2012		<0.005						
9/26/2012	<0.005							
3/12/2013				<0.005	<0.005	<0.005	<0.005	<0.005
3/13/2013	<0.005	<0.005	<0.005					
9/9/2013					<0.005			
9/10/2013			<0.005	<0.005		<0.005	<0.005	<0.005
9/11/2013	<0.005	<0.005						
3/5/2014				<0.005	<0.005	0.0016 (J)	<0.005	<0.005
3/11/2014	<0.005	<0.005	<0.005					
9/3/2014			<0.005					<0.005
9/8/2014					<0.005	<0.005		
9/9/2014	<0.005	<0.005		<0.005			<0.005	



# Time Series

Constituent: Lead (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.005		<0.005		<0.005
4/22/2015					<0.005		<0.005	
4/23/2015		<0.005	<0.005					
9/29/2015				<0.005	<0.005	<0.005	<0.005	<0.005
9/30/2015	<0.005	<0.005	<0.005					
3/23/2016		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/24/2016	<0.005							
5/17/2016				<0.005	<0.005			
5/18/2016	<0.005	<0.005				<0.005	<0.005	<0.005
5/19/2016			<0.005					
7/6/2016				<0.005	<0.005	0.0001 (J)	<0.005	<0.005
7/7/2016	<0.005	<0.005	<0.005					
9/7/2016				<0.005	<0.005	<0.005		
9/8/2016	<0.005	<0.005	<0.005				<0.005	<0.005
10/18/2016				<0.005	<0.005	<0.005	<0.005	
10/19/2016	<0.005	<0.005	<0.005					<0.005
12/7/2016	0.0001 (J)	<0.005	<0.005					
12/8/2016				<0.005	0.0001 (J)	<0.005	0.0002 (J)	<0.005
2/1/2017				<0.005	<0.005			
2/2/2017	<0.005	<0.005				0.0003 (J)	<0.005	<0.005
2/3/2017			<0.005					
3/23/2017				<0.005	<0.005			
3/24/2017						0.0002 (J)	<0.005	
3/27/2017	<0.005	<0.005	<0.005					<0.005
10/4/2017				<0.005	<0.005	7E-05 (J)		
10/5/2017	<0.005	<0.005	<0.005				<0.005	<0.005
3/14/2018							<0.005	
3/15/2018	<0.005	<0.005	<0.005			<0.005		<0.005
3/16/2018				<0.005	<0.005			
10/4/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
10/5/2018			0.00042 (J)					<0.005
4/8/2019			0.00018 (J)		<0.005	<0.005	<0.005	<0.005
4/9/2019	<0.005	<0.005		0.00039 (J)				
10/1/2019	7.5E-05 (J)	0.00012 (J)	0.00022 (J)	6.5E-05 (J)	<0.005	5E-05 (J)	<0.005	<0.005
3/26/2020			0.00016 (J)					
3/27/2020							<0.005	<0.005
3/30/2020						4.8E-05 (J)		
3/31/2020	<0.005	0.00013 (J)		<0.005	<0.005			

# Time Series

Constituent: Nickel (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.005		<0.005	<0.005	<0.005			<0.005	
3/7/2007		<0.005				<0.005	<0.005		<0.005
5/8/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
5/9/2007							<0.005	<0.005	<0.005
7/7/2007	<0.005		<0.005						
7/17/2007		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/28/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/29/2007									<0.005
11/6/2007	<0.005		<0.005	<0.005	<0.005				
11/7/2007		<0.005				<0.005	<0.005	<0.005	<0.005
5/7/2008							<0.005	<0.005	<0.005
5/8/2008				<0.005	<0.005				
5/9/2008	<0.005	<0.005	<0.005			<0.005			
12/2/2008		<0.005				<0.005			
12/3/2008	<0.005		<0.005	<0.005	<0.005		<0.005		
12/4/2008								<0.005	
12/5/2008									<0.005
4/7/2009	<0.005		<0.005	<0.005	<0.005				
4/8/2009		<0.005				<0.005			
4/14/2009							<0.005	<0.005	<0.005
9/30/2009									<0.005
10/1/2009	<0.005	<0.005	<0.005			<0.005	<0.005		
10/2/2009				<0.005	<0.005			<0.005	
4/13/2010			<0.005				<0.005	<0.005	<0.005
4/14/2010	<0.005	<0.005		<0.005	<0.005	<0.005			
10/7/2010			<0.005						
10/12/2010							<0.005	<0.005	<0.005
10/13/2010	<0.005	<0.005				<0.005			
10/14/2010				<0.005	<0.005				
4/5/2011				<0.005	0.0032				
4/6/2011	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	
10/4/2011		<0.005				<0.005			
10/6/2011			<0.005						
10/10/2011	<0.005								
10/12/2011				<0.005	<0.005		<0.005	<0.005	<0.005
4/3/2012	<0.005		<0.005						
4/4/2012				<0.005	<0.005				
4/5/2012							<0.005	<0.005	
4/9/2012									<0.005
4/10/2012		<0.005				<0.005			
9/19/2012			<0.005				<0.005		
9/24/2012	<0.005				0.0032				
9/25/2012								<0.005	<0.005
9/26/2012		<0.005		<0.005		<0.005			
3/12/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
3/13/2013							<0.005	<0.005	<0.005
9/9/2013			<0.005						
9/10/2013		<0.005		<0.005	<0.005	<0.005	<0.005		
9/11/2013	<0.005							<0.005	<0.005
3/4/2014	0.001 (J)	0.002 (J)	0.0007 (J)			<0.005			
3/10/2014							0.0013 (J)	0.00072 (J)	0.00074 (J)
3/11/2014				0.0013 (J)	0.0026				

# Time Series

Constituent: Nickel (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.005	0.002 (J)	<0.005			<0.005	<0.005		
9/8/2014				<0.005	0.0017 (J)				
9/9/2014								<0.005	<0.005
4/21/2015	<0.005	0.002 (J)		<0.005	0.0016 (J)	<0.005			
4/22/2015			<0.005				<0.005	<0.005	
4/23/2015									<0.005
9/29/2015		0.0022 (J)		<0.005	0.0055				
9/30/2015	<0.005		<0.005			<0.005	<0.005	<0.005	<0.005
3/22/2016	<0.005	<0.005	<0.005	<0.005	<0.005				
3/23/2016						<0.005			<0.005
3/24/2016							<0.005	<0.005	
9/7/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005	0.0014 (J)	<0.005			
9/8/2016							0.0009 (J)	<0.005	<0.005
3/23/2017	0.0007 (J)		<0.005	0.0022 (J)					
3/24/2017		0.0024 (J)			0.0017 (J)				
3/27/2017						<0.005	0.0006 (J)	0.0062 (J)	0.0006 (J)
10/4/2017	0.0006 (J)		<0.005	<0.005	0.0023 (J)				
10/5/2017		0.0023 (J)				<0.005	0.0008 (J)	0.0005 (J)	<0.005
3/14/2018	<0.005		<0.005						
3/15/2018		0.0026 (J)		<0.005	0.0024 (J)	<0.005		<0.005	
3/16/2018							<0.005		<0.005
10/4/2018	<0.005	0.0023 (J)	<0.005	<0.005	0.0013 (J)	<0.005		<0.005	
10/5/2018							<0.005		<0.005
4/5/2019				0.00075 (J)					
4/8/2019	0.00034 (J)	0.0023 (J)	<0.005		0.00089 (J)				
4/9/2019						<0.005	<0.005	<0.005	<0.005
9/30/2019	0.00037 (J)	0.0017 (J)	<0.005	<0.005	0.0013 (J)				
10/1/2019						<0.005	0.0015 (J)	<0.005	<0.005
3/26/2020	0.00065 (J)	0.002 (J)	<0.005	0.0011 (J)	0.00096 (J)				
3/27/2020						0.0023 (J)			
3/30/2020							0.00048 (J)		
3/31/2020								<0.005	<0.005

# Time Series

Constituent: Nickel (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.005	<0.005	<0.005					
3/7/2007				<0.005	<0.005			<0.005
5/8/2007				<0.005				<0.005
5/9/2007	<0.005	<0.005	<0.005		<0.005	18 (o)	<0.005	
7/6/2007				<0.005		5.9 (o)	<0.005	<0.005
7/17/2007	<0.005	<0.005	<0.005		<0.005			
8/28/2007				<0.005	<0.005	3.9	<0.005	<0.005
8/29/2007	0.0055	<0.005	<0.005					
11/6/2007				<0.005	<0.005	3.1	<0.005	<0.005
11/7/2007	0.0044	<0.005	<0.005					
5/7/2008	0.0047	<0.005	<0.005					
5/8/2008				<0.005	<0.005	2.1	<0.005	<0.005
12/2/2008						1.2	<0.005	<0.005
12/3/2008				<0.005	<0.005			
12/5/2008	<0.005	<0.005	<0.005					
4/7/2009				<0.005	<0.005			
4/8/2009						1.1	<0.005	<0.005
4/14/2009		<0.005	<0.005					
4/27/2009	0.0027							
9/30/2009	0.0051	<0.005					<0.005	<0.005
10/1/2009			<0.005	<0.005	<0.005	0.88		
4/13/2010	0.0031	<0.005			<0.005	0.82	<0.005	<0.005
4/14/2010			<0.005	<0.005				
10/6/2010					<0.005			
10/7/2010						0.72		
10/12/2010	<0.005	<0.005						
10/13/2010			<0.005				<0.005	<0.005
10/14/2010				<0.005				
4/5/2011				<0.005	<0.005	0.52	<0.005	<0.005
4/6/2011		<0.005	<0.005					
10/4/2011					<0.005	0.56	<0.005	<0.005
10/5/2011	0.0032	<0.005						
10/12/2011			<0.005	<0.005				
4/3/2012					<0.005	0.365	<0.005	
4/4/2012				<0.005				<0.005
4/9/2012		<0.005	<0.005					
4/10/2012	<0.005							
9/18/2012					<0.005	0.45		
9/19/2012			<0.005				<0.005	<0.005
9/24/2012				<0.005				
9/25/2012		<0.005						
9/26/2012	0.0063							
3/12/2013				<0.005	<0.005	0.13	<0.005	<0.005
3/13/2013	0.0029	<0.005	<0.005					
9/9/2013					<0.005			
9/10/2013			<0.005	<0.005		0.2	<0.005	0.003
9/11/2013	0.0046	<0.005						
3/5/2014				0.001 (J)	0.00092 (J)	0.17	0.00079 (J)	0.0022 (J)
3/11/2014	0.002 (J)	0.00059 (J)	0.0016 (J)					
9/3/2014			<0.005					<0.005
9/8/2014					<0.005	0.25		
9/9/2014	0.0029	<0.005		<0.005			<0.005	

# Time Series

Constituent: Nickel (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.005		0.15		0.0019 (J)
4/22/2015					<0.005		<0.005	
4/23/2015		<0.005	<0.005					
9/29/2015				<0.005	<0.005	0.203	<0.005	0.0019 (J)
9/30/2015	0.0025 (J)	<0.005	<0.005					
3/23/2016		<0.005	<0.005	<0.005	<0.005	0.0607	<0.005	<0.005
3/24/2016	0.00317 (J)							
9/7/2016				<0.005	<0.005	0.141		
9/8/2016	0.0038 (J)	<0.005	0.0011 (J)				<0.005	0.0023 (J)
3/23/2017				0.0008 (J)	<0.005			
3/24/2017						0.0313	<0.005	
3/27/2017	0.0024 (J)	<0.005	0.0007 (J)					0.0023 (J)
10/4/2017				<0.005	<0.005	0.093		
10/5/2017	0.0104	<0.005	<0.005				<0.005	0.0024 (J)
3/14/2018							<0.005	
3/15/2018	0.0026 (J)	<0.005	0.001 (J)			0.057		0.0023 (J)
3/16/2018				<0.005	<0.005			
10/4/2018	0.012	<0.005		<0.005	<0.005	0.11	<0.005	
10/5/2018			0.0014 (J)					0.0025 (J)
12/11/2018	0.0052 (J)							
4/8/2019			0.0011 (J)		0.00032 (J)	0.03	0.00064 (J)	0.0021 (J)
4/9/2019	0.0048 (J)	<0.005		0.00098 (J)				
10/1/2019	0.0031 (J)	<0.005	0.0035 (J)	0.00088 (J)	0.00042 (J)	0.07	0.00063 (J)	0.0022 (J)
3/26/2020			0.001 (J)					
3/27/2020							0.00053 (J)	0.0022 (J)
3/30/2020						0.037		
3/31/2020	0.0039 (J)	<0.005		0.0013 (J)	<0.005			

# Time Series

Constituent: pH (s.u.) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/22/2016	7.07	7	7.19	7.11	7.14				
3/23/2016						7.56			7.55
3/24/2016							7.71	7.69	
5/17/2016	7	6.77	6.94	6.95	6.67	7.46			
5/18/2016							7.59	7.49	7.32
7/5/2016	6.88		6.98	6.55					
7/6/2016		6.64			6.53	7.24		7.39	
7/7/2016							7.55		7.39
9/7/2016	7.24	6.83	6.86	6.81	6.72	7.4			
9/8/2016							7.54	7.57	7.34
10/18/2016	6.86	6.58	6.71	6.64	6.73	7.11		7.35	
10/19/2016							7.66		7.35
12/6/2016	6.98	6.66		6.34	6.61	7.32			
12/7/2016			6.71					7.42	7.35
12/8/2016							7.47		
1/31/2017	6.63		6.95						
2/1/2017		6.5		6.68	6.7				
2/2/2017						7.19	7.64	7.43	
2/3/2017									7.37
3/23/2017	7.12		7.04	6.8					
3/24/2017		6.72			6.77				
3/27/2017						7.48	7.59	7.53	7.26
10/4/2017	6.83		6.86	6.64	6.52				
10/5/2017		6.69				7.13	7.65	7.36	7.2
3/14/2018	6.66		6.76						
3/15/2018		6.48		6.88	7.11	7.08		7.54	
3/16/2018							7.51		7.13
5/15/2018									7.18
10/4/2018	6.92	6.66	6.62	6.62	6.72	7.26		7.44	
10/5/2018							7.57		7.07
12/11/2018									7.16
4/5/2019				6.77					
4/8/2019	6.86	6.61	6.79		6.82				
4/9/2019						7.22	7.48	7.4	7.26
9/30/2019	7.15	6.86	6.86	6.73	6.77				
10/1/2019						7.07	7.65	7.31	7.16
3/26/2020	7.02	6.83	7.07	6.87	6.74				
3/27/2020						6.82			
3/30/2020							7.65		
3/31/2020								7.62	7.57

# Time Series

Constituent: pH (s.u.) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016		7.72	7.48	7.1	7.29	6.36	7.46	7.2
3/24/2016	6.4							
5/17/2016				6.88	7.1			
5/18/2016	6.44	7.77				6.21	7.4	6.96
5/19/2016			7.24					
7/6/2016				6.75	7	5.88	7.36	6.89
7/7/2016	6.12	7.65	7.18					
9/7/2016				6.95	7.07	5.77		
9/8/2016	7.2	7.89	7.17				7.45	6.93
10/18/2016				6.9	6.81	5.9	7.5	
10/19/2016	7.11	7.64	7.05					6.84
12/7/2016	7.24	7.72	7.16					
12/8/2016				6.55	6.85		7.28	6.54
12/9/2016						5.73		
2/1/2017				6.81	7.05			
2/2/2017	6.86	7.56				6.29	7.45	6.72
2/3/2017			7.27					
3/23/2017				6.8	6.97			
3/24/2017						6.32	7.28	
3/27/2017	6.51	7.69	7.24					6.56
10/4/2017				7.12	7.17	6.03		
10/5/2017	5.97	7.53	7.25				7.53	7.03
3/14/2018							7.28	
3/15/2018	7.01	7.5	7.05			6.05		6.66
3/16/2018				6.72	6.8			
10/4/2018	6.33	7.52		6.52	6.93	5.92	7.22	
10/5/2018			6.97					6.41
4/8/2019			6.88		7	6.26	6.91	6.72
4/9/2019	6.46	7.49		6.72				
6/18/2019							6.85	
6/27/2019							7.05	
10/1/2019	6.9	7.38	7	6.81	6.97	6.09	7.11	6.77
11/6/2019		7.66						
3/26/2020			6.88					
3/27/2020							7.01	7.11
3/30/2020						6.48		
3/31/2020	6.33	7.8		6.82	7.17			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.01		<0.01	<0.01	<0.01			<0.01	
3/7/2007		<0.01				<0.01	<0.01		<0.01
5/8/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
5/9/2007							<0.01	<0.01	<0.01
7/7/2007	<0.01		<0.01						
7/17/2007		<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/28/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
8/29/2007									<0.01
11/6/2007	<0.01		<0.01	<0.01	<0.01				
11/7/2007		<0.01				<0.01	<0.01	<0.01	<0.01
5/7/2008							<0.01	<0.01	<0.01
5/8/2008				<0.01	<0.01				
5/9/2008	<0.01	<0.01	<0.01			<0.01			
12/2/2008		<0.01				<0.01			
12/3/2008	<0.01		<0.01	<0.01	<0.01		<0.01		
12/4/2008								<0.01	
12/5/2008									<0.01
4/7/2009	<0.01		<0.01	<0.01	<0.01				
4/8/2009		<0.01				<0.01			
4/14/2009							<0.01	<0.01	<0.01
9/30/2009									<0.01
10/1/2009	<0.01	<0.01	<0.01			<0.01	<0.01		
10/2/2009				<0.01	<0.01			<0.01	
4/13/2010			<0.01				<0.01	<0.01	<0.01
4/14/2010	<0.01	<0.01		<0.01	<0.01	<0.01			
10/7/2010			<0.01						
10/12/2010							<0.01	<0.01	<0.01
10/13/2010	<0.01	<0.01				<0.01			
10/14/2010				<0.01	<0.01				
4/5/2011				<0.01	<0.01				
4/6/2011	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	
10/4/2011		<0.01				<0.01			
10/6/2011			<0.01						
10/10/2011	<0.01								
10/12/2011				<0.01	<0.01		<0.01	<0.01	<0.01
4/3/2012	<0.01		<0.01						
4/4/2012				<0.01	<0.01				
4/5/2012							<0.01	<0.01	
4/9/2012									<0.01
4/10/2012		<0.01				<0.01			
9/19/2012			<0.01				<0.01		
9/24/2012	<0.01				<0.01				
9/25/2012								<0.01	<0.01
9/26/2012		<0.01		<0.01		<0.01			
3/12/2013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
3/13/2013							<0.01	<0.01	<0.01
9/9/2013			<0.01						
9/10/2013		<0.01		<0.01	<0.01	<0.01	<0.01		
9/11/2013	<0.01							<0.01	<0.01
3/4/2014	<0.01	<0.01	<0.01			0.0016 (J)			
3/10/2014							<0.01	<0.01	<0.01
3/11/2014				<0.01	<0.01				



# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.01	<0.01	<0.01			<0.01	<0.01		
9/8/2014				<0.01	<0.01				
9/9/2014								<0.01	<0.01
4/21/2015	<0.01	<0.01		<0.01	<0.01	<0.01			
4/22/2015			<0.01				<0.01	<0.01	
4/23/2015									<0.01
9/29/2015		<0.01		<0.01	<0.01				
9/30/2015	<0.01		<0.01			<0.01	<0.01	<0.01	<0.01
3/22/2016	<0.01	<0.01	<0.01	<0.01	<0.01				
3/23/2016						<0.01			<0.01
3/24/2016							<0.01	<0.01	
5/17/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
5/18/2016							<0.01	<0.01	<0.01
7/5/2016	<0.01		<0.01	<0.01					
7/6/2016		<0.01			<0.01	<0.01		<0.01	
7/7/2016							<0.01		<0.01
9/7/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
9/8/2016							<0.01	<0.01	<0.01
10/18/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
10/19/2016							<0.01		<0.01
12/6/2016	<0.01	<0.01		<0.01	<0.01	<0.01			
12/7/2016			<0.01					<0.01	<0.01
12/8/2016							<0.01		
1/31/2017	<0.01		<0.01						
2/1/2017		<0.01		<0.01	<0.01				
2/2/2017						<0.01	<0.01	<0.01	
2/3/2017									<0.01
3/23/2017	<0.01		<0.01	<0.01					
3/24/2017		<0.01			<0.01				
3/27/2017						<0.01	<0.01	<0.01	<0.01
10/4/2017	<0.01		<0.01	<0.01	<0.01				
10/5/2017		<0.01				<0.01	<0.01	<0.01	<0.01
3/14/2018	<0.01		<0.01						
3/15/2018		<0.01		<0.01	<0.01	<0.01		<0.01	
3/16/2018							<0.01		<0.01
10/4/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
10/5/2018							<0.01		<0.01
4/5/2019				<0.01					
4/8/2019	<0.01	<0.01	<0.01		0.00014 (J)				
4/9/2019						<0.01	<0.01	<0.01	<0.01
9/30/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
10/1/2019						<0.01	<0.01	<0.01	<0.01
3/26/2020	<0.01	<0.01	<0.01	<0.01	<0.01				
3/27/2020						<0.01			
3/30/2020							<0.01		
3/31/2020								<0.01	<0.01

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.01	<0.01	<0.01					
3/7/2007				<0.01	<0.01			<0.01
5/8/2007				<0.01				<0.01
5/9/2007	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	
7/6/2007				<0.01		<0.01	<0.01	<0.01
7/17/2007	<0.01	<0.01	<0.01		<0.01			
8/28/2007				<0.01	<0.01	<0.01	<0.01	<0.01
8/29/2007	<0.01	<0.01	<0.01					
11/6/2007				<0.01	<0.01	<0.01	<0.01	<0.01
11/7/2007	<0.01	<0.01	<0.01					
5/7/2008	<0.01	<0.01	<0.01					
5/8/2008				<0.01	<0.01	<0.01	<0.01	<0.01
12/2/2008						<0.01	<0.01	<0.01
12/3/2008				<0.01	<0.01			
12/5/2008	<0.01	<0.01	<0.01					
4/7/2009				<0.01	<0.01			
4/8/2009						<0.01	<0.01	<0.01
4/14/2009		<0.01	<0.01					
4/27/2009	<0.01							
9/30/2009	<0.01	<0.01					<0.01	<0.01
10/1/2009			<0.01	<0.01	<0.01	<0.01		
4/13/2010	<0.01	<0.01			<0.01	<0.01	<0.01	<0.01
4/14/2010			<0.01	<0.01				
10/6/2010					<0.01			
10/7/2010						<0.01		
10/12/2010	<0.01	<0.01						
10/13/2010			<0.01				<0.01	<0.01
10/14/2010				<0.01				
4/5/2011				<0.01	<0.01	<0.01	<0.01	<0.01
4/6/2011		<0.01	<0.01					
10/4/2011					<0.01	<0.01	<0.01	<0.01
10/5/2011	<0.01	<0.01						
10/12/2011			<0.01	<0.01				
4/3/2012					<0.01	<0.01	<0.01	
4/4/2012				<0.01				<0.01
4/9/2012		<0.01	<0.01					
4/10/2012	<0.01							
9/18/2012					<0.01	<0.01		
9/19/2012			<0.01				<0.01	<0.01
9/24/2012				<0.01				
9/25/2012		<0.01						
9/26/2012	<0.01							
3/12/2013				<0.01	<0.01	<0.01	<0.01	<0.01
3/13/2013	<0.01	<0.01	<0.01					
9/9/2013					<0.01			
9/10/2013			<0.01	<0.01		<0.01	<0.01	<0.01
9/11/2013	<0.01	<0.01						
3/5/2014				<0.01	<0.01	<0.01	<0.01	0.0018 (J)
3/11/2014	0.0024 (J)	0.0017 (J)	<0.01					
9/3/2014			<0.01					<0.01
9/8/2014					<0.01	<0.01		
9/9/2014	<0.01	<0.01		<0.01			<0.01	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.01		<0.01		<0.01
4/22/2015					<0.01		<0.01	
4/23/2015		<0.01	<0.01					
9/29/2015				<0.01	<0.01	<0.01	<0.01	<0.01
9/30/2015	<0.01	<0.01	<0.01					
3/23/2016		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/24/2016	<0.01							
5/17/2016				<0.01	<0.01			
5/18/2016	<0.01	<0.01				<0.01	<0.01	<0.01
5/19/2016			<0.01					
7/6/2016				<0.01	<0.01	<0.01	<0.01	<0.01
7/7/2016	<0.01	<0.01	<0.01					
9/7/2016				<0.01	<0.01	<0.01		
9/8/2016	<0.01	<0.01	<0.01				<0.01	<0.01
10/18/2016				<0.01	<0.01	<0.01	<0.01	
10/19/2016	<0.01	<0.01	<0.01					<0.01
12/7/2016	<0.01	<0.01	<0.01					
12/8/2016				<0.01	<0.01	<0.01	<0.01	<0.01
2/1/2017				<0.01	<0.01			
2/2/2017	0.0017 (J)	<0.01				<0.01	<0.01	<0.01
2/3/2017			<0.01					
3/23/2017				<0.01	<0.01			
3/24/2017						<0.01	<0.01	
3/27/2017	<0.01	<0.01	<0.01					<0.01
10/4/2017				<0.01	<0.01	<0.01		
10/5/2017	<0.01	<0.01	<0.01				<0.01	<0.01
3/14/2018							<0.01	
3/15/2018	<0.01	<0.01	<0.01			<0.01		<0.01
3/16/2018				<0.01	<0.01			
10/4/2018	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	
10/5/2018			<0.01					<0.01
4/8/2019			<0.01		<0.01	<0.01	<0.01	<0.01
4/9/2019	<0.01	<0.01		<0.01				
10/1/2019	<0.01	0.0014 (J)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/26/2020			<0.01					
3/27/2020							<0.01	<0.01
3/30/2020						<0.01		
3/31/2020	<0.01	<0.01		<0.01	<0.01			

# Time Series

Constituent: Silver (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.005		<0.005	<0.005	<0.005			<0.005	
3/7/2007		<0.005				<0.005	<0.005		<0.005
5/8/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
5/9/2007							<0.005	<0.005	<0.005
7/7/2007	<0.005		<0.005						
7/17/2007		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/28/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/29/2007									<0.005
11/6/2007	<0.005		<0.005	<0.005	<0.005				
11/7/2007		<0.005				<0.005	<0.005	<0.005	<0.005
5/7/2008							<0.005	<0.005	<0.005
5/8/2008				<0.005	<0.005				
5/9/2008	<0.005	<0.005	<0.005			<0.005			
12/2/2008		<0.005				<0.005			
12/3/2008	<0.005		<0.005	<0.005	<0.005		<0.005		
12/4/2008								<0.005	
12/5/2008									<0.005
4/7/2009	<0.005		<0.005	<0.005	<0.005				
4/8/2009		<0.005				<0.005			
4/14/2009							<0.005	<0.005	<0.005
9/30/2009									<0.005
10/1/2009	<0.005	<0.005	<0.005			<0.005	<0.005		
10/2/2009				<0.005	<0.005			<0.005	
4/13/2010			<0.005				<0.005	<0.005	<0.005
4/14/2010	<0.005	<0.005		<0.005	<0.005	<0.005			
10/7/2010			<0.005						
10/12/2010							<0.005	<0.005	<0.005
10/13/2010	<0.005	<0.005				<0.005			
10/14/2010				<0.005	<0.005				
4/5/2011				<0.005	<0.005				
4/6/2011	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	
10/4/2011		<0.005				<0.005			
10/6/2011			<0.005						
10/10/2011	<0.005								
10/12/2011				<0.005	<0.005		<0.005	<0.005	<0.005
4/3/2012	<0.005		<0.005						
4/4/2012				<0.005	<0.005				
4/5/2012							<0.005	<0.005	
4/9/2012									<0.005
4/10/2012		<0.005				<0.005			
9/19/2012			<0.005				<0.005		
9/24/2012	<0.005				<0.005				
9/25/2012								<0.005	<0.005
9/26/2012		<0.005		<0.005		<0.005			
3/12/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
3/13/2013							<0.005	<0.005	<0.005
9/9/2013			<0.005						
9/10/2013		<0.005		<0.005	<0.005	<0.005	<0.005		
9/11/2013	<0.005							<0.005	<0.005
3/4/2014	<0.005	<0.005	<0.005			<0.005			
3/10/2014							<0.005	<0.005	<0.005
3/11/2014				<0.005	<0.005				

# Time Series

Constituent: Silver (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.005	<0.005	<0.005			<0.005	<0.005		
9/8/2014				<0.005	<0.005				
9/9/2014								<0.005	<0.005
4/21/2015	<0.005	<0.005		<0.005	<0.005	<0.005			
4/22/2015			<0.005				<0.005	<0.005	
4/23/2015									<0.005
9/29/2015		<0.005		<0.005	<0.005				
9/30/2015	<0.005		<0.005			<0.005	<0.005	<0.005	<0.005
3/22/2016	<0.005	<0.005	<0.005	<0.005	<0.005				
3/23/2016						<0.005			<0.005
3/24/2016							<0.005	<0.005	
9/7/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
9/8/2016							<0.005	<0.005	<0.005
3/23/2017	<0.005		<0.005	<0.005					
3/24/2017		<0.005			<0.005				
3/27/2017						<0.005	<0.005	<0.005	<0.005
10/4/2017	<0.005		<0.005	<0.005	<0.005				
10/5/2017		<0.005				<0.005	<0.005	<0.005	<0.005
3/14/2018	<0.005		<0.005						
3/15/2018		<0.005		<0.005	<0.005	<0.005		<0.005	
3/16/2018							<0.005		<0.005
10/4/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
10/5/2018							<0.005		<0.005
4/5/2019				<0.005					
4/8/2019	<0.005	<0.005	<0.005		<0.005				
4/9/2019						<0.005	<0.005	<0.005	<0.005
9/30/2019	<0.005	<0.005	<0.005	<0.005	<0.005				
10/1/2019						<0.005	<0.005	<0.005	<0.005
3/26/2020	<0.005	<0.005	<0.005	<0.005	<0.005				
3/27/2020						<0.005			
3/30/2020							<0.005		
3/31/2020								<0.005	<0.005

# Time Series

Constituent: Silver (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.005	<0.005	<0.005					
3/7/2007				<0.005	<0.005			<0.005
5/8/2007				<0.005				<0.005
5/9/2007	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	
7/6/2007				<0.005		<0.005	<0.005	<0.005
7/17/2007	<0.005	<0.005	<0.005		<0.005			
8/28/2007				<0.005	<0.005	<0.005	<0.005	<0.005
8/29/2007	<0.005	<0.005	<0.005					
11/6/2007				<0.005	<0.005	<0.005	<0.005	<0.005
11/7/2007	<0.005	<0.005	<0.005					
5/7/2008	<0.005	<0.005	<0.005					
5/8/2008				<0.005	<0.005	<0.005	<0.005	<0.005
12/2/2008						<0.005	<0.005	<0.005
12/3/2008				<0.005	<0.005			
12/5/2008	<0.005	<0.005	<0.005					
4/7/2009				<0.005	<0.005			
4/8/2009						<0.005	<0.005	<0.005
4/14/2009		<0.005	<0.005					
4/27/2009	0.0036							
9/30/2009	<0.005	<0.005					<0.005	<0.005
10/1/2009			<0.005	<0.005	<0.005	<0.005		
4/13/2010	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
4/14/2010			<0.005	<0.005				
10/6/2010					<0.005			
10/7/2010						<0.005		
10/12/2010	<0.005	<0.005						
10/13/2010			<0.005				<0.005	<0.005
10/14/2010				<0.005				
4/5/2011				<0.005	<0.005	<0.005	<0.005	<0.005
4/6/2011		<0.005	<0.005					
10/4/2011					<0.005	<0.005	<0.005	<0.005
10/5/2011	<0.005	<0.005						
10/12/2011			<0.005	<0.005				
4/3/2012					<0.005	<0.005	<0.005	
4/4/2012				<0.005				<0.005
4/9/2012		<0.005	<0.005					
4/10/2012	<0.005							
9/18/2012					<0.005	<0.005		
9/19/2012			<0.005				<0.005	<0.005
9/24/2012				<0.005				
9/25/2012		<0.005						
9/26/2012	<0.005							
3/12/2013				<0.005	<0.005	<0.005	<0.005	<0.005
3/13/2013	<0.005	<0.005	<0.005					
9/9/2013					<0.005			
9/10/2013			<0.005	<0.005		<0.005	<0.005	<0.005
9/11/2013	<0.005	<0.005						
3/5/2014				<0.005	<0.005	<0.005	<0.005	<0.005
3/11/2014	<0.005	<0.005	<0.005					
9/3/2014			<0.005					<0.005
9/8/2014					<0.005	<0.005		
9/9/2014	<0.005	<0.005		<0.005			<0.005	

# Time Series

Constituent: Silver (mg/L) Analysis Run 6/12/2020 2:48 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.005		<0.005		<0.005
4/22/2015					<0.005		<0.005	
4/23/2015		<0.005	<0.005					
9/29/2015				<0.005	<0.005	<0.005	<0.005	<0.005
9/30/2015	<0.005	<0.005	<0.005					
3/23/2016		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/24/2016	<0.005							
9/7/2016				<0.005	<0.005	<0.005		
9/8/2016	<0.005	<0.005	<0.005				<0.005	<0.005
3/23/2017				<0.005	<0.005			
3/24/2017						<0.005	<0.005	
3/27/2017	<0.005	<0.005	<0.005					<0.005
10/4/2017				<0.005	<0.005	<0.005		
10/5/2017	<0.005	<0.005	<0.005				<0.005	<0.005
3/14/2018							<0.005	
3/15/2018	<0.005	<0.005	<0.005			<0.005		<0.005
3/16/2018				<0.005	<0.005			
10/4/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
10/5/2018			<0.005					<0.005
4/8/2019			<0.005		<0.005	<0.005	<0.005	<0.005
4/9/2019	<0.005	<0.005		<0.005				
10/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/26/2020			<0.005					
3/27/2020							<0.005	<0.005
3/30/2020						<0.005		
3/31/2020	<0.005	<0.005		<0.005	<0.005			

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/22/2016	4.4409	11.6823	13.0789	107.476	302.2975				
3/23/2016						14.6529			22.9683
3/24/2016							10.1818	16.8473	
5/17/2016	4.43	11.4	15.3	106	213	13.3			
5/18/2016								18.4	19.2
5/19/2016							9.58		
7/5/2016	4.6		15	110					
7/6/2016		12			280	10		17	
7/7/2016							9.6		31
9/7/2016	4.8	13	16	83	160	10			
9/8/2016							9.4	16	30
10/18/2016	4.7	13	16	110	120	10		19	
10/19/2016							9.9		32
12/6/2016	4.7	12		220	210	11			
12/7/2016			15					13	26
12/8/2016							14		
1/31/2017	5.1		13						
2/1/2017		13		190	200				
2/2/2017						11	13	14	
2/3/2017									27
3/23/2017	4.7		12	160					
3/24/2017		12			140				
3/27/2017						33	12	18	30
10/4/2017	5		12	140	140				
10/5/2017		13				16	12	16	32
3/14/2018	5.1		13.9						
3/15/2018		12.2		119	167	33.9		14.8	
3/16/2018							11.7		37.5
5/15/2018						29.1			41
10/4/2018	5.2	15.6	17.4	117	209	29.5		15.9	
10/5/2018							10.6		38.9
12/11/2018									41.8
4/5/2019				131					
4/8/2019	4.6	13.2	18.1		248				
4/9/2019						21.4	11.3	16.7	50.3
6/18/2019									38.7
6/27/2019									46
9/30/2019	4.9	11.5	17.5	118	117				
10/1/2019						13.4	8.9	14.7	52.3
11/6/2019									47.3
3/26/2020	5	10.8	15.6	95.8	128				
3/27/2020						10.8			
3/30/2020							9.7		
3/31/2020								17.8	53.6



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016		9.1183	6.2867	76.011	87.512	90.229	26.3455	61.8335
3/24/2016	24.8075							
5/17/2016				76.2	101			
5/18/2016	26.2	6.88				100		
5/19/2016			5.42				31.7	64.3
7/6/2016				74	110	130	36	69
7/7/2016	31	6.8	5.7					
9/7/2016				64	97	130		
9/8/2016	33	6.8	5.7				45	68
10/18/2016				65	120	140	49	
10/19/2016	31	7.5	5.8					69
12/7/2016	19	11	5.9					
12/8/2016				100	100	140	50	69
2/1/2017				150	110			
2/2/2017	52	9.9				71	51	76
2/3/2017			38					
3/23/2017				130	110			
3/24/2017						68	46	
3/27/2017	29	8.4	43					68
10/4/2017				71	130	120		
10/5/2017	33	7.4	8.3				48	74
12/14/2017					130			
1/18/2018					110			
3/14/2018							36.8	
3/15/2018	38	8.2	14			118		57.8
3/16/2018				77.4	93.6			
10/4/2018	19.3	6.4		90.3	137	167	45.4	
10/5/2018			9.3					81.9
12/11/2018					110			73.6
4/8/2019			6.2		131	97.1	39.9	73.5
4/9/2019	19.9	11		83.6				
6/19/2019					108			
10/1/2019	46.3	1.9	5.8	68.1	71.7	120	47.1	72.2
3/26/2020			14.5					
3/27/2020							31.5	54
3/30/2020						64.6		
3/31/2020	29.9	10.9		92.6	106			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.001		<0.001	<0.001	<0.001			<0.001	
3/7/2007		<0.001				<0.001	<0.001		<0.001
5/8/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
5/9/2007							<0.001	<0.001	<0.001
7/7/2007	<0.001		<0.001						
7/17/2007		<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/28/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/29/2007									<0.001
11/6/2007	<0.001		<0.001	<0.001	<0.001				
11/7/2007		<0.001				<0.001	<0.001	<0.001	<0.001
5/7/2008							<0.001	<0.001	<0.001
5/8/2008				<0.001	<0.001				
5/9/2008	<0.001	<0.001	<0.001			<0.001			
12/2/2008		<0.001				<0.001			
12/3/2008	<0.001		<0.001	<0.001	<0.001		<0.001		
12/4/2008								<0.001	
12/5/2008									<0.001
4/7/2009	<0.001		<0.001	<0.001	<0.001				
4/8/2009		<0.001				<0.001			
4/14/2009							<0.001	<0.001	<0.001
9/30/2009									<0.001
10/1/2009	<0.001	<0.001	<0.001			<0.001	<0.001		
10/2/2009				<0.001	<0.001			<0.001	
4/13/2010			<0.001				<0.001	<0.001	<0.001
4/14/2010	<0.001	<0.001		<0.001	<0.001	<0.001			
10/7/2010			<0.001						
10/12/2010							<0.001	<0.001	<0.001
10/13/2010	<0.001	<0.001				<0.001			
10/14/2010				<0.001	<0.001				
4/5/2011				<0.001	<0.001				
4/6/2011	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001	
10/4/2011		<0.001				<0.001			
10/6/2011			<0.001						
10/10/2011	<0.001								
10/12/2011				<0.001	<0.001		<0.001	<0.001	<0.001
4/3/2012	<0.001		<0.001						
4/4/2012				<0.001	<0.001				
4/5/2012							<0.001	<0.001	
4/9/2012									<0.001
4/10/2012		<0.001				<0.001			
9/19/2012			<0.001				<0.001		
9/24/2012	<0.001				<0.001				
9/25/2012								<0.001	<0.001
9/26/2012		<0.001		<0.001		<0.001			
3/12/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
3/13/2013							<0.001	<0.001	<0.001
3/4/2014	<0.001	<0.001	<0.001			<0.001			
3/10/2014							<0.001	<0.001	<0.001
3/11/2014				<0.001	<0.001				
9/3/2014	<0.001	<0.001	<0.001			<0.001	<0.001		
9/8/2014				<0.001	<0.001				
9/9/2014								<0.001	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
4/21/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/29/2015		<0.001		<0.001	<0.001				
9/30/2015	<0.001		<0.001			<0.001	<0.001	<0.001	<0.001
3/22/2016	<0.001	<0.001	<0.001	<0.001	<0.001				
3/23/2016						<0.001			<0.001
3/24/2016							<0.001	<0.001	
5/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
5/18/2016							<0.001	<0.001	<0.001
7/5/2016	<0.001		<0.001	<0.001					
7/6/2016		<0.001			<0.001	<0.001		<0.001	
7/7/2016							<0.001		<0.001
9/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
9/8/2016							<0.001	<0.001	<0.001
10/18/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
10/19/2016							<0.001		<0.001
12/6/2016	<0.001	<0.001		<0.001	<0.001	<0.001			
12/7/2016			<0.001					<0.001	<0.001
12/8/2016							<0.001		
1/31/2017	<0.001		<0.001						
2/1/2017		<0.001		<0.001	<0.001				
2/2/2017						<0.001	<0.001	<0.001	
2/3/2017									<0.001
3/23/2017	<0.001		<0.001	<0.001					
3/24/2017		<0.001			<0.001				
3/27/2017						<0.001	<0.001	<0.001	<0.001
10/4/2017	<0.001		<0.001	<0.001	<0.001				
10/5/2017		<0.001				<0.001	<0.001	<0.001	<0.001
3/14/2018	<0.001		<0.001					<0.001	
3/15/2018		<0.001		<0.001	<0.001	<0.001		<0.001	
3/16/2018							<0.001		<0.001
10/4/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
10/5/2018							<0.001		<0.001
4/5/2019				<0.001					
4/8/2019	<0.001	<0.001	<0.001		<0.001				
4/9/2019						<0.001	<0.001	<0.001	<0.001
9/30/2019	<0.001	<0.001	<0.001	<0.001	<0.001				
10/1/2019						<0.001	<0.001	<0.001	<0.001
3/26/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/27/2020						<0.001			
3/30/2020							<0.001		
3/31/2020								<0.001	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.001	<0.001	<0.001					
3/7/2007				<0.001	<0.001			<0.001
5/8/2007				<0.001				<0.001
5/9/2007	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
7/6/2007				<0.001		<0.001	<0.001	<0.001
7/17/2007	<0.001	<0.001	<0.001		<0.001			
8/28/2007				<0.001	<0.001	<0.001	<0.001	<0.001
8/29/2007	<0.001	<0.001	<0.001					
11/6/2007				<0.001	<0.001	<0.001	<0.001	<0.001
11/7/2007	<0.001	<0.001	<0.001					
5/7/2008	<0.001	<0.001	<0.001					
5/8/2008				<0.001	<0.001	<0.001	<0.001	<0.001
12/2/2008						<0.001	<0.001	<0.001
12/3/2008				<0.001	<0.001			
12/5/2008	<0.001	<0.001	<0.001					
4/7/2009				<0.001	<0.001			
4/8/2009						<0.001	<0.001	<0.001
4/14/2009		<0.001	<0.001					
4/27/2009	<0.001							
9/30/2009	<0.001	<0.001					<0.001	<0.001
10/1/2009			<0.001	<0.001	<0.001	<0.001		
4/13/2010	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
4/14/2010			<0.001	<0.001				
10/6/2010					<0.001			
10/7/2010						<0.001		
10/12/2010	<0.001	<0.001						
10/13/2010			<0.001				<0.001	<0.001
10/14/2010				<0.001				
4/5/2011				<0.001	<0.001	<0.001	<0.001	<0.001
4/6/2011		<0.001	<0.001					
10/4/2011					<0.001	<0.001	<0.001	<0.001
10/5/2011	<0.001	<0.001						
10/12/2011			<0.001	<0.001				
4/3/2012					<0.001	<0.001	<0.001	
4/4/2012				<0.001				<0.001
4/9/2012		<0.001	<0.001					
4/10/2012	<0.001							
9/18/2012					<0.001	<0.001		
9/19/2012			<0.001				<0.001	<0.001
9/24/2012				<0.001	<0.001		<0.001	
9/25/2012		<0.001						
9/26/2012	<0.001							
3/12/2013				<0.001	<0.001	<0.001	<0.001	<0.001
3/13/2013	<0.001	<0.001	<0.001					
3/5/2014				<0.001	<0.001	<0.001	<0.001	<0.001
3/11/2014	<0.001	<0.001	<0.001					
9/3/2014			<0.001					<0.001
9/8/2014					<0.001	<0.001		
9/9/2014	<0.001	<0.001		<0.001			<0.001	
4/21/2015		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/29/2015				<0.001	<0.001	<0.001	<0.001	<0.001
9/30/2015	<0.001	<0.001	<0.001					

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2016	<0.001							
5/17/2016				<0.001	<0.001			
5/18/2016	<0.001	<0.001				<0.001	<0.001	<0.001
5/19/2016			<0.001					
7/6/2016				<0.001	<0.001	0.0001 (J)	<0.001	<0.001
7/7/2016	<0.001	<0.001	<0.001					
9/7/2016				<0.001	<0.001	<0.001		
9/8/2016	<0.001	<0.001	<0.001				<0.001	<0.001
10/18/2016				<0.001	<0.001	<0.001	<0.001	
10/19/2016	<0.001	<0.001	<0.001					<0.001
12/7/2016	<0.001	<0.001	<0.001					
12/8/2016				<0.001	<0.001	<0.001	<0.001	<0.001
2/1/2017				<0.001	<0.001			
2/2/2017	<0.001	<0.001				<0.001	<0.001	<0.001
2/3/2017			<0.001					
3/23/2017				<0.001	<0.001			
3/24/2017						<0.001	<0.001	
3/27/2017	<0.001	<0.001	<0.001					<0.001
10/4/2017				<0.001	<0.001	<0.001		
10/5/2017	<0.001	<0.001	<0.001				<0.001	<0.001
3/14/2018							<0.001	
3/15/2018	<0.001	<0.001	<0.001			<0.001		<0.001
3/16/2018				<0.001	<0.001			
10/4/2018	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
10/5/2018			<0.001					<0.001
4/8/2019			<0.001		<0.001	<0.001	<0.001	<0.001
4/9/2019	<0.001	<0.001		<0.001				
10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/26/2020			<0.001					
3/27/2020							<0.001	<0.001
3/30/2020						<0.001		
3/31/2020	<0.001	<0.001		<0.001	<0.001			

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/22/2016	78	112	233	451	686				
3/23/2016						182			208
3/24/2016							205	232	
5/17/2016	67	121	197	430	533	178			
5/18/2016								245	213
5/19/2016							204		
7/5/2016	87		218	418					
7/6/2016		98			646	135		231	
7/7/2016							181		212
9/7/2016	125	128	240	443	493	165			
9/8/2016							193	252	201
10/18/2016	133	115	221	415	455	113		288	
10/19/2016							231		276
12/6/2016	151	153		653	597	194			
12/7/2016			235					220	186
12/8/2016							166		
1/31/2017	135		253						
2/1/2017		183		615	638				
2/2/2017						160	191	220	
2/3/2017									219
3/23/2017	72		190	506					
3/24/2017		121			579				
3/27/2017						252	427	393	239
10/4/2017	91		192	492	440				
10/5/2017		113				177	207	242	216
3/14/2018	99		204						
3/15/2018		115		448	381	216		213	
3/16/2018							199		216
10/4/2018	112	135	233	472	490	222		231	
10/5/2018							235		256
4/5/2019				456					
4/8/2019	91	142	209		522				
4/9/2019						213	212	253	267
9/30/2019	126	134	242	475	455				
10/1/2019						186	196	229	271
3/26/2020	73	76	222	450	466				
3/27/2020						118			
3/30/2020							217		
3/31/2020								233	267

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016		206	168	379	310	253	239	204
3/24/2016	110							
5/17/2016				349	280			
5/18/2016	153	212				276		
5/19/2016			173				236	215
7/6/2016				346	280	239	218	204
7/7/2016	151	206	144					
9/7/2016				382	324	247		
9/8/2016	285	214	179				225	201
10/18/2016				461	307	233	200	
10/19/2016	314	269	209					272
12/7/2016	252	199	156					
12/8/2016				379	281	373	196	227
2/1/2017				511	354			
2/2/2017	138	211				236	231	209
2/3/2017			276					
3/23/2017				443	302			
3/24/2017						291	250	
3/27/2017	88	324	295					305
10/4/2017				359	365	264		
10/5/2017	111	219	192				309	204
12/14/2017					406		322	
1/18/2018					404		322	
3/14/2018							263	
3/15/2018	219	190	169			254		280
3/16/2018				390	317			
10/4/2018	152	215		385	371	287	292	
10/5/2018			210					236
4/8/2019			191		353	295	438	264
4/9/2019	167	222		371				
10/1/2019	336	220	203	380	348	277	305	237
11/6/2019	336							
11/26/2019	236							
3/26/2020			193					
3/27/2020							329	192
3/30/2020						216		
3/31/2020	111	195		408	349			

# Time Series

Constituent: Vanadium (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.01		<0.01	<0.01	<0.01			<0.01	
3/7/2007		<0.01				<0.01	<0.01		<0.01
5/8/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
5/9/2007							<0.01	<0.01	<0.01
7/7/2007	<0.01		<0.01						
7/17/2007		<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/28/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
8/29/2007									<0.01
11/6/2007	<0.01		<0.01	<0.01	<0.01				
11/7/2007		<0.01				<0.01	<0.01	<0.01	<0.01
5/7/2008							<0.01	<0.01	<0.01
5/8/2008				<0.01	<0.01				
5/9/2008	<0.01	<0.01	<0.01			<0.01			
12/2/2008		<0.01				<0.01			
12/3/2008	<0.01		<0.01	<0.01	<0.01		<0.01		
12/4/2008								<0.01	
12/5/2008									<0.01
4/7/2009	<0.01		<0.01	<0.01	<0.01				
4/8/2009		<0.01				<0.01			
4/14/2009							<0.01	<0.01	<0.01
9/30/2009									<0.01
10/1/2009	<0.01	<0.01	<0.01			<0.01	<0.01		
10/2/2009				<0.01	<0.01			<0.01	
4/13/2010			<0.01				<0.01	<0.01	<0.01
4/14/2010	<0.01	<0.01		<0.01	<0.01	<0.01			
10/7/2010			<0.01						
10/12/2010							<0.01	<0.01	<0.01
10/13/2010	<0.01	<0.01				<0.01			
10/14/2010				<0.01	<0.01				
4/5/2011				<0.01	<0.01				
4/6/2011	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	
10/4/2011		<0.01				<0.01			
10/6/2011			<0.01						
10/10/2011	<0.01								
10/12/2011				<0.01	<0.01		<0.01	<0.01	<0.01
4/3/2012	<0.01		<0.01						
4/4/2012				<0.01	<0.01				
4/5/2012							<0.01	<0.01	
4/9/2012									<0.01
4/10/2012		<0.01				<0.01			
9/19/2012			<0.01				<0.01		
9/24/2012	<0.01				<0.01				
9/25/2012								<0.01	<0.01
9/26/2012		<0.01		<0.01		<0.01			
3/12/2013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
3/13/2013							<0.01	<0.01	<0.01
9/9/2013			<0.01						
9/10/2013		<0.01		<0.01	<0.01	<0.01	<0.01		
9/11/2013	<0.01							<0.01	<0.01
3/4/2014	<0.01	<0.01	<0.01			<0.01			
3/10/2014							<0.01	<0.01	<0.01
3/11/2014				<0.01	<0.01				



# Time Series

Constituent: Vanadium (mg/L) Analysis Run 6/12/2020 2:48 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	<0.01	<0.01	<0.01			<0.01	<0.01		
9/8/2014				<0.01	<0.01				
9/9/2014								<0.01	<0.01
4/21/2015	<0.01	<0.01		<0.01	<0.01	<0.01			
4/22/2015			<0.01				<0.01	<0.01	
4/23/2015									<0.01
9/29/2015		<0.01		<0.01	<0.01				
9/30/2015	<0.01		<0.01			<0.01	<0.01	<0.01	<0.01
3/22/2016	<0.01	<0.01	<0.01	<0.01	<0.01				
3/23/2016						<0.01			<0.01
3/24/2016							<0.01	<0.01	
9/7/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
9/8/2016							<0.01	<0.01	<0.01
3/23/2017	<0.01		<0.01	<0.01					
3/24/2017		<0.01			<0.01				
3/27/2017						<0.01	<0.01	<0.01	<0.01
10/4/2017	<0.01		<0.01	<0.01	<0.01				
10/5/2017		<0.01				<0.01	<0.01	<0.01	<0.01
3/14/2018	<0.01		<0.01						
3/15/2018		<0.01		<0.01	<0.01	<0.01		<0.01	
3/16/2018							<0.01		<0.01
10/4/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
10/5/2018							<0.01		<0.01
4/5/2019				<0.01					
4/8/2019	<0.01	<0.01	<0.01		<0.01				
4/9/2019						<0.01	<0.01	<0.01	<0.01
9/30/2019	<0.01	<0.01	<0.01	<0.01	<0.01				
10/1/2019						<0.01	<0.01	<0.01	<0.01
3/26/2020	<0.01	<0.01	<0.01	<0.01	<0.01				
3/27/2020						<0.01			
3/30/2020							<0.01		
3/31/2020								<0.01	<0.01

# Time Series

Constituent: Vanadium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.01	<0.01	<0.01					
3/7/2007				<0.01	<0.01			<0.01
5/8/2007				<0.01				<0.01
5/9/2007	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	
7/6/2007				<0.01		<0.01	<0.01	<0.01
7/17/2007	<0.01	<0.01	<0.01		<0.01			
8/28/2007				<0.01	<0.01	<0.01	<0.01	<0.01
8/29/2007	<0.01	<0.01	<0.01					
11/6/2007				<0.01	<0.01	<0.01	<0.01	<0.01
11/7/2007	<0.01	<0.01	<0.01					
5/7/2008	<0.01	<0.01	<0.01					
5/8/2008				<0.01	<0.01	<0.01	<0.01	<0.01
12/2/2008						<0.01	<0.01	<0.01
12/3/2008				<0.01	<0.01			
12/5/2008	<0.01	<0.01	<0.01					
4/7/2009				<0.01	<0.01			
4/8/2009						<0.01	<0.01	0.0029
4/14/2009		<0.01	<0.01					
4/27/2009	<0.01							
9/30/2009	<0.01	<0.01					<0.01	<0.01
10/1/2009			<0.01	<0.01	<0.01	0.0039		
4/13/2010	<0.01	<0.01			<0.01	<0.01	<0.01	<0.01
4/14/2010			<0.01	<0.01				
10/6/2010					<0.01			
10/7/2010						<0.01		
10/12/2010	<0.01	<0.01						
10/13/2010			<0.01				<0.01	<0.01
10/14/2010				<0.01				
4/5/2011				<0.01	<0.01	0.0025	<0.01	<0.01
4/6/2011		<0.01	<0.01					
10/4/2011					<0.01	0.0027	<0.01	<0.01
10/5/2011	<0.01	<0.01						
10/12/2011			<0.01	<0.01				
4/3/2012					<0.01	<0.01	<0.01	
4/4/2012				<0.01				<0.01
4/9/2012		<0.01	<0.01					
4/10/2012	<0.01							
9/18/2012					<0.01	<0.01		
9/19/2012			<0.01				<0.01	<0.01
9/24/2012				<0.01				
9/25/2012		<0.01						
9/26/2012	<0.01							
3/12/2013				<0.01	<0.01	<0.01	<0.01	<0.01
3/13/2013	<0.01	<0.01	<0.01					
9/9/2013					<0.01			
9/10/2013			<0.01	<0.01		<0.01	<0.01	<0.01
9/11/2013	<0.01	<0.01						
3/5/2014				<0.01	<0.01	<0.01	<0.01	<0.01
3/11/2014	<0.01	<0.01	<0.01					
9/3/2014			<0.01					<0.01
9/8/2014					<0.01	0.0012 (J)		
9/9/2014	0.0029 (J)	<0.01		0.00093 (J)			<0.01	

# Time Series

Constituent: Vanadium (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				<0.01		0.0015 (J)		<0.01
4/22/2015					<0.01		<0.01	
4/23/2015		<0.01	<0.01					
9/29/2015				<0.01	<0.01	<0.01	<0.01	<0.01
9/30/2015	0.001 (J)	<0.01	<0.01					
3/23/2016		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/24/2016	<0.01							
9/7/2016				<0.01	<0.01	<0.01		
9/8/2016	<0.01	<0.01	<0.01				<0.01	<0.01
3/23/2017				<0.01	<0.01			
3/24/2017						<0.01	<0.01	
3/27/2017	<0.01	<0.01	<0.01					<0.01
10/4/2017				<0.01	<0.01	<0.01		
10/5/2017	<0.01	<0.01	<0.01				<0.01	<0.01
3/14/2018							<0.01	
3/15/2018	<0.01	<0.01	<0.01			<0.01		<0.01
3/16/2018				<0.01	<0.01			
10/4/2018	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	
10/5/2018			<0.01					<0.01
4/8/2019			0.00017 (J)		<0.01	<0.01	<0.01	<0.01
4/9/2019	<0.01	<0.01		<0.01				
10/1/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/26/2020			<0.01					
3/27/2020							<0.01	<0.01
3/30/2020						<0.01		
3/31/2020	<0.01	<0.01		<0.01	<0.01			

# Time Series

Constituent: Zinc (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
3/6/2007	<0.02		<0.02	<0.02	<0.02			<0.02	
3/7/2007		<0.02				<0.02	<0.02		<0.02
5/8/2007	<0.02	0.0025	<0.02	<0.02	<0.02	<0.02			
5/9/2007							0.0026	0.0025	<0.02
7/7/2007	<0.02		<0.02						
7/17/2007		0.0047		0.0033	<0.02	0.0069	0.0043	0.0035	<0.02
8/28/2007	<0.02	0.0033	0.0026	<0.02	0.0026	<0.02	<0.02	<0.02	
8/29/2007									<0.02
11/6/2007	<0.02		<0.02	<0.02	<0.02				
11/7/2007		<0.02				<0.02	<0.02	<0.02	<0.02
5/7/2008							<0.02	<0.02	<0.02
5/8/2008				0.0033	0.0037				
5/9/2008	<0.02	<0.02	<0.02			<0.02			
12/2/2008		<0.02				<0.02			
12/3/2008	<0.02		<0.02	0.0054	0.003		<0.02		
12/4/2008								<0.02	
12/5/2008									<0.02
4/7/2009	0.0028		<0.02	<0.02	0.0045				
4/8/2009		<0.02				<0.02			
4/14/2009							<0.02	<0.02	<0.02
9/30/2009									<0.02
10/1/2009	<0.02	<0.02	<0.02			<0.02	<0.02		
10/2/2009				<0.02	0.0027			<0.02	
4/13/2010			<0.02				<0.02	0.0043	<0.02
4/14/2010	<0.02	<0.02		0.003	<0.02	<0.02			
10/7/2010			<0.02						
10/12/2010							<0.02	<0.02	<0.02
10/13/2010	<0.02	<0.02				<0.02			
10/14/2010				<0.02	0.0041				
4/5/2011				<0.02	<0.02				
4/6/2011	<0.02	<0.02	<0.02			<0.02	<0.02	<0.02	
10/4/2011		<0.02				<0.02			
10/6/2011			<0.02						
10/10/2011	<0.02								
10/12/2011				<0.02	0.0033		<0.02	<0.02	<0.02
4/3/2012	<0.02		<0.02						
4/4/2012				<0.02	<0.02				
4/5/2012							<0.02	<0.02	
4/9/2012									<0.02
4/10/2012		<0.02				<0.02			
9/19/2012			<0.02				<0.02		
9/24/2012	<0.02				0.0039				
9/25/2012								<0.02	<0.02
9/26/2012		<0.02		<0.02		<0.02			
3/12/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
3/13/2013							<0.02	<0.02	<0.02
9/9/2013			<0.02						
9/10/2013		<0.02		<0.02	0.0035	<0.02	<0.02		
9/11/2013	<0.02							<0.02	<0.02
3/4/2014	0.0026	<0.02	0.0035			0.0026			
3/10/2014							0.0022 (J)	0.0031	0.0024 (J)
3/11/2014				0.0037	0.0045				

# Time Series

Constituent: Zinc (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1 (bg)	GWA-11 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-18	GWC-19	GWC-20
9/3/2014	0.001 (J)	0.00074 (J)	0.0015 (J)			0.00079 (J)	0.0013 (J)		
9/8/2014				0.00087 (J)	0.0026				
9/9/2014								0.00098 (J)	0.00078 (J)
4/21/2015	<0.02	<0.02		0.002 (J)	0.0028	<0.02			
4/22/2015			<0.02				0.0019 (J)	0.0015 (J)	
4/23/2015									<0.02
9/29/2015		0.0024 (J)		0.0021 (J)	0.008 (J)				
9/30/2015	<0.02		0.0026 (J)			0.0018 (J)	0.0037 (J)	0.002 (J)	0.0016 (J)
3/22/2016	<0.02	<0.02	<0.02	<0.02	<0.02				
3/23/2016						<0.02			<0.02
3/24/2016							<0.02	<0.02	
9/7/2016	0.0047 (J)	0.0023 (J)	0.0024 (J)	0.0034 (J)	0.0035 (J)	<0.02			
9/8/2016							0.0024 (J)	0.0029 (J)	<0.02
3/23/2017	<0.02		<0.02	0.0031 (J)					
3/24/2017		0.0068 (J)			0.0095 (J)				
3/27/2017						0.0014 (J)	<0.02	0.0019 (J)	0.0017 (J)
10/4/2017	<0.02		0.0017 (J)	<0.02	0.0031 (J)				
10/5/2017		<0.02				<0.02	<0.02	0.0024 (J)	0.0016 (J)
3/14/2018	0.0032 (J)		0.0023 (J)						
3/15/2018		0.0042 (J)		0.0028 (J)	0.0041 (J)	<0.02		<0.02	
3/16/2018							<0.02		<0.02
10/4/2018	0.003 (J)	0.0046 (J)	0.0041 (J)	0.0043 (J)	0.0058 (J)	0.0033 (J)		0.013	
10/5/2018							0.0029 (J)		<0.02
4/5/2019				0.0013 (J)					
4/8/2019	<0.02	0.0024 (J)	0.0014 (J)		0.0023 (J)				
4/9/2019						<0.02	0.0037 (J)	<0.02	<0.02
9/30/2019	0.0032 (J)	0.004 (J)	0.0043 (J)	0.0045 (J)	0.0059 (J)				
10/1/2019						0.0049 (J)	0.006 (J)	0.0049 (J)	0.0063 (J)
3/26/2020	<0.02	<0.02	<0.02	<0.02	<0.02				
3/27/2020						<0.02			
3/30/2020							<0.02		
3/31/2020								<0.02	<0.02

# Time Series

Constituent: Zinc (mg/L) Analysis Run 6/12/2020 2:48 PM

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/6/2007	<0.02	<0.02	0.0054					
3/7/2007				0.0064	<0.02			<0.02
5/8/2007				<0.02				0.0027
5/9/2007	<0.02	0.0035	0.0041		<0.02	45 (o)	0.0038	
7/6/2007				<0.02		16 (o)	<0.02	0.0032
7/17/2007	0.0031	<0.02	0.005		<0.02			
8/28/2007				0.0025	<0.02	11 (o)	<0.02	0.0026
8/29/2007	0.0056	<0.02	0.0044					
11/6/2007				<0.02	<0.02	8.3	<0.02	<0.02
11/7/2007	0.0059	<0.02	<0.02					
5/7/2008	0.0059	<0.02	<0.02					
5/8/2008				<0.02	<0.02	5	<0.02	<0.02
12/2/2008						3.2	<0.02	<0.02
12/3/2008				<0.02	<0.02			
12/5/2008	<0.02	<0.02	<0.02					
4/7/2009				0.0025	<0.02			
4/8/2009						2.4	<0.02	<0.02
4/14/2009		<0.02	<0.02					
4/27/2009	0.0051							
9/30/2009	0.0066	<0.02					<0.02	<0.02
10/1/2009			<0.02	<0.02	<0.02	1.9		
4/13/2010	0.0041	<0.02			<0.02	1.9	<0.02	<0.02
4/14/2010			<0.02	<0.02				
10/6/2010					<0.02			
10/7/2010						1.6		
10/12/2010	0.004	<0.02						
10/13/2010			<0.02				<0.02	<0.02
10/14/2010				<0.02				
4/5/2011				0.0025	<0.02	1.1	<0.02	<0.02
4/6/2011		<0.02	<0.02					
10/4/2011					<0.02	1.1	<0.02	<0.02
10/5/2011	0.0043	<0.02						
10/12/2011			<0.02	0.0037				
4/3/2012					<0.02	0.75	<0.02	
4/4/2012				<0.02				<0.02
4/9/2012		<0.02	<0.02					
4/10/2012	0.0108							
9/18/2012					<0.02	0.88		
9/19/2012			<0.02				<0.02	<0.02
9/24/2012				<0.02				
9/25/2012		<0.02						
9/26/2012	0.0066							
3/12/2013				<0.02	<0.02	0.23	<0.02	<0.02
3/13/2013	0.0035	<0.02	<0.02					
9/9/2013					<0.02			
9/10/2013			<0.02	<0.02		0.36	<0.02	<0.02
9/11/2013	0.005	<0.02						
3/5/2014				0.0028	0.0026	0.33	0.0028	0.0029
3/11/2014	0.005	0.0037	0.0033					
9/3/2014			0.0014 (J)					0.0011 (J)
9/8/2014					0.00055 (J)	0.47		
9/9/2014	0.0041	0.0006 (J)		0.00058 (J)			0.0014 (J)	

# Time Series

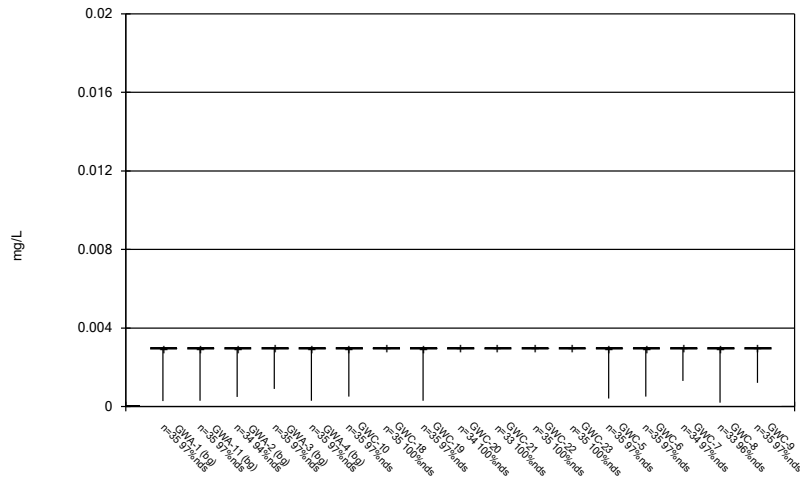
Constituent: Zinc (mg/L) Analysis Run 6/12/2020 2:48 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-22	GWC-23	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
4/21/2015				0.0043		0.27		<0.02
4/22/2015					<0.02		<0.02	
4/23/2015		<0.02	0.0024 (J)					
9/29/2015				0.0031 (J)	0.0026 (J)	0.359	0.0016 (J)	0.0034 (J)
9/30/2015	0.0031 (J)	0.0021 (J)	0.0041 (J)					
3/23/2016		<0.02	<0.02	0.00272 (J)	<0.02	0.102	<0.02	<0.02
3/24/2016	0.00393 (J)							
9/7/2016				<0.02	0.0024 (J)	0.24		
9/8/2016	0.0047 (J)	<0.02	<0.02				<0.02	<0.02
3/23/2017				0.0026 (J)	0.0035 (J)			
3/24/2017						0.0512	0.0031 (J)	
3/27/2017	0.0036 (J)	<0.02	0.0014 (J)					0.0014 (J)
10/4/2017				<0.02	<0.02	0.159		
10/5/2017	0.0065 (J)	<0.02	0.0014 (J)				<0.02	0.0013 (J)
3/14/2018							0.0053 (J)	
3/15/2018	0.0053 (J)	<0.02	0.0039 (J)			0.12		<0.02
3/16/2018				<0.02	0.0029 (J)			
10/4/2018	0.0077 (J)	0.003 (J)		0.0028 (J)	0.0039 (J)	0.22	0.0031 (J)	
10/5/2018			0.0048 (J)					0.0044 (J)
4/8/2019			0.0016 (J)		0.0013 (J)	0.051	0.0012 (J)	0.0016 (J)
4/9/2019	0.0041 (J)	<0.02		<0.02				
10/1/2019	0.0078 (J)	0.0054 (J)	0.0057 (J)	0.0053 (J)	0.0056 (J)	0.12	0.0055 (J)	0.0052 (J)
3/26/2020			<0.02					
3/27/2020							<0.02	<0.02
3/30/2020						0.051		
3/31/2020	<0.02	<0.02		<0.02	<0.02			

FIGURE B.

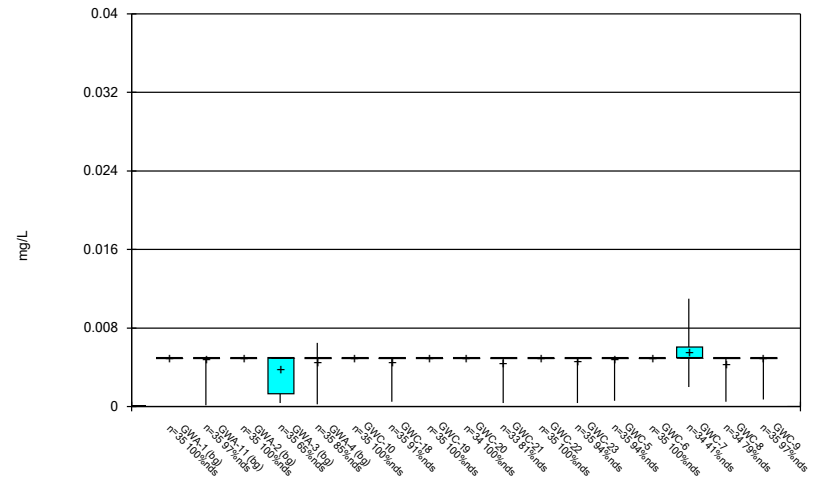


### Box & Whiskers Plot



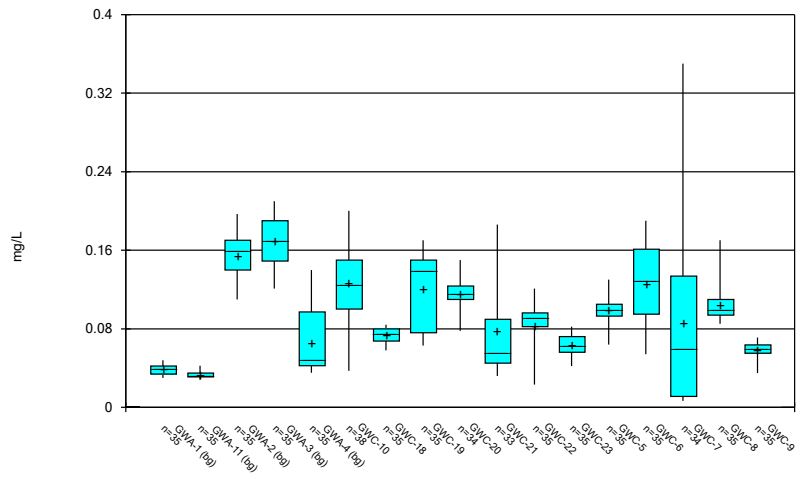
Constituent: Antimony Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



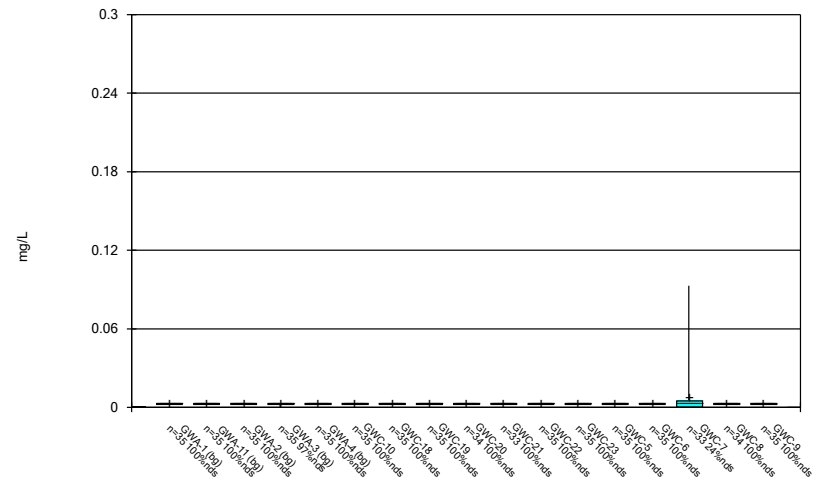
Constituent: Arsenic Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



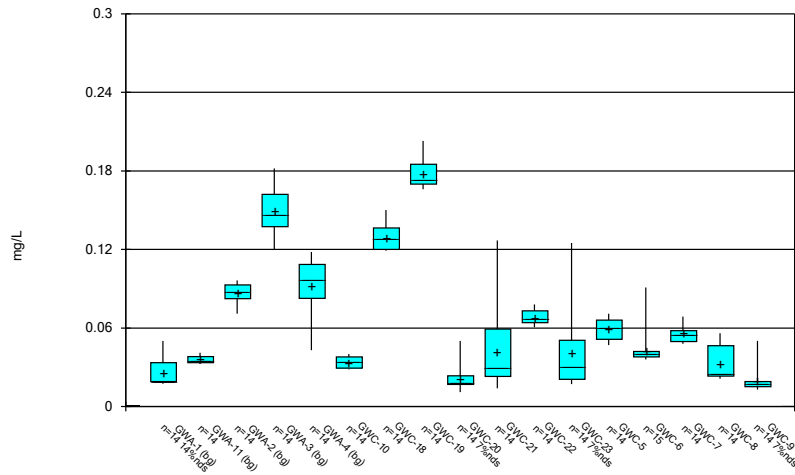
Constituent: Barium Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



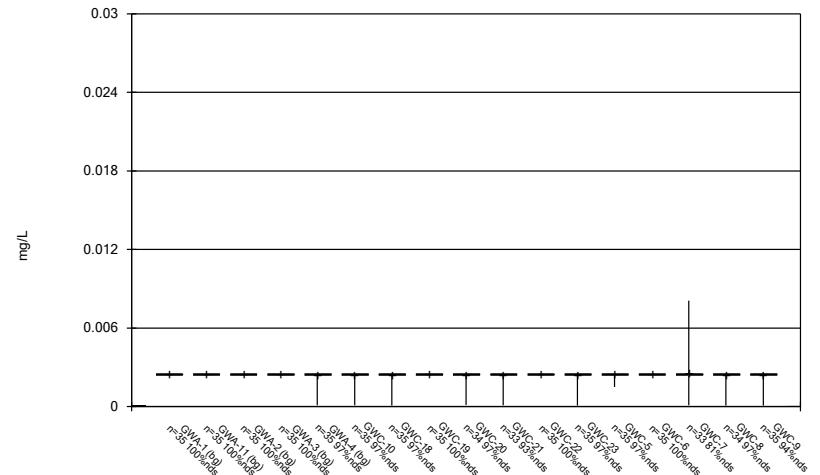
Constituent: Beryllium Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



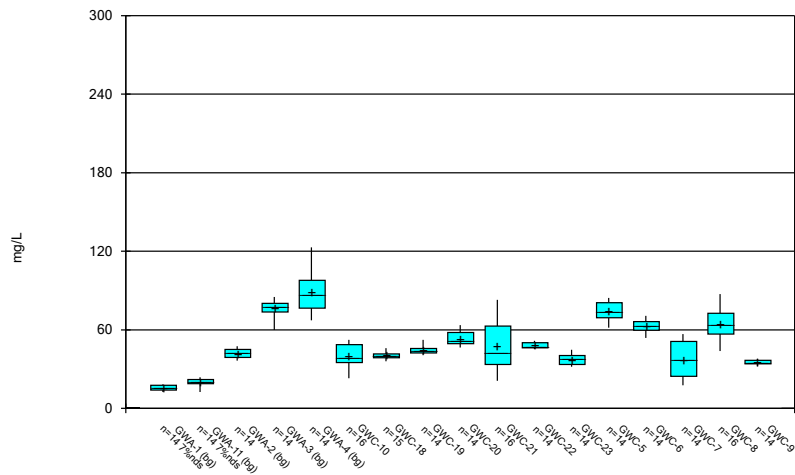
Constituent: Boron Analysis Run 6/12/2020 2:51 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



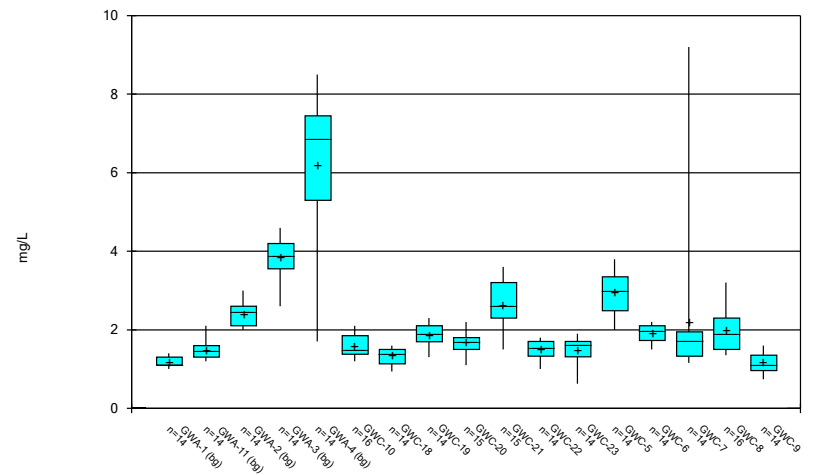
Constituent: Cadmium Analysis Run 6/12/2020 2:51 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



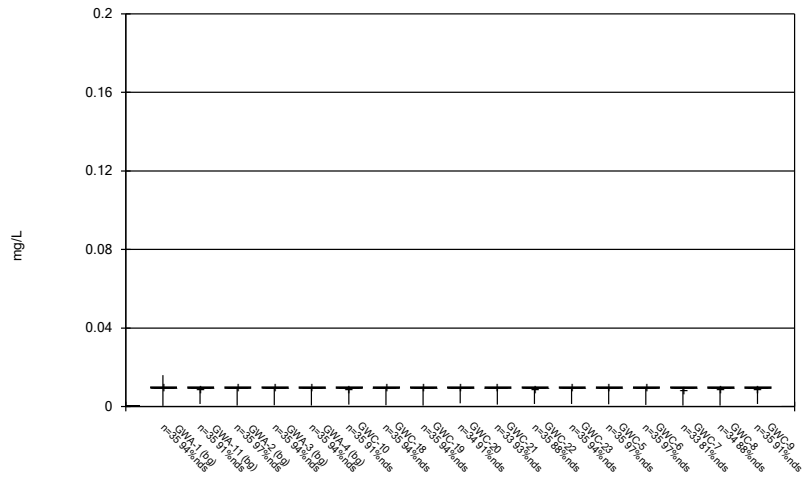
Constituent: Calcium Analysis Run 6/12/2020 2:51 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



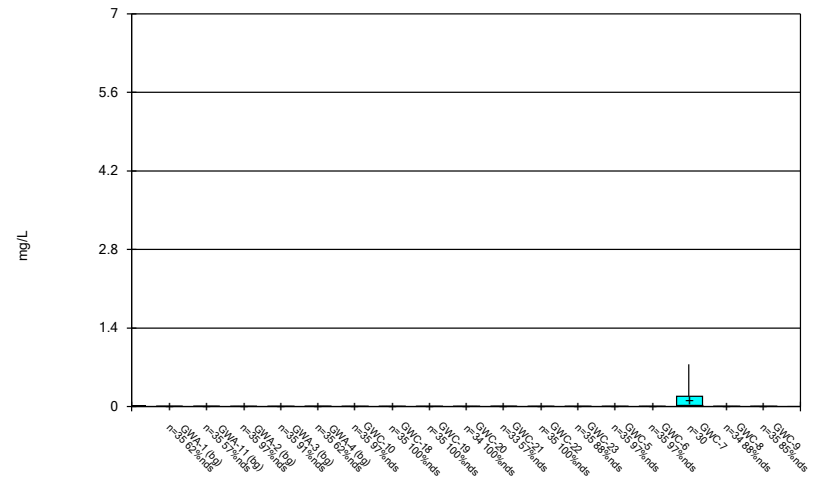
Constituent: Chloride Analysis Run 6/12/2020 2:51 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



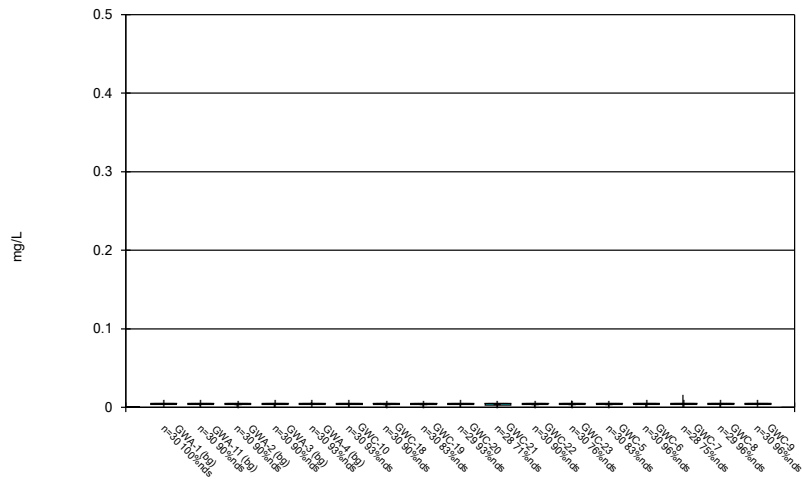
Constituent: Chromium Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



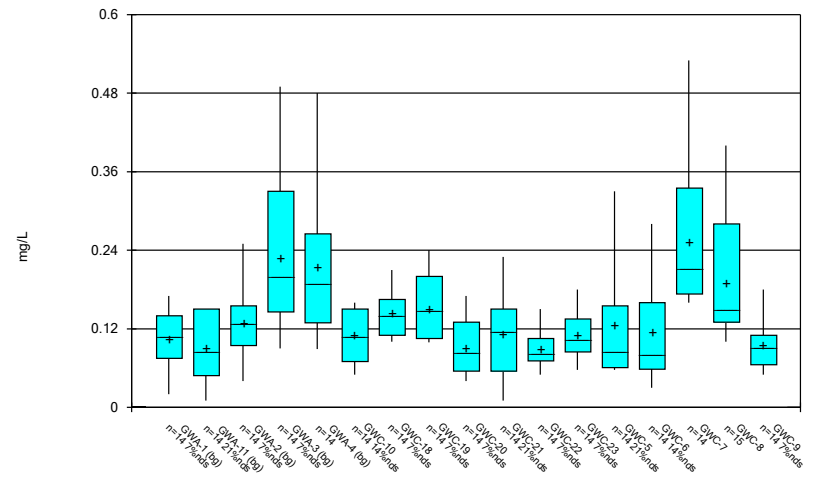
Constituent: Cobalt Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



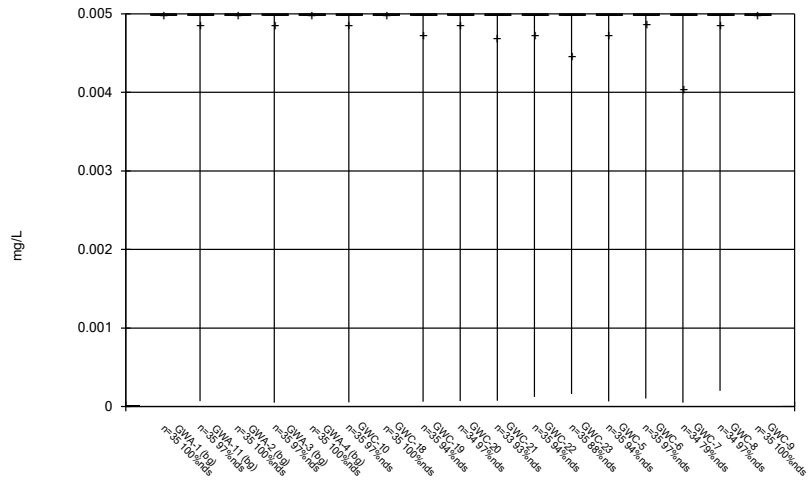
Constituent: Copper Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



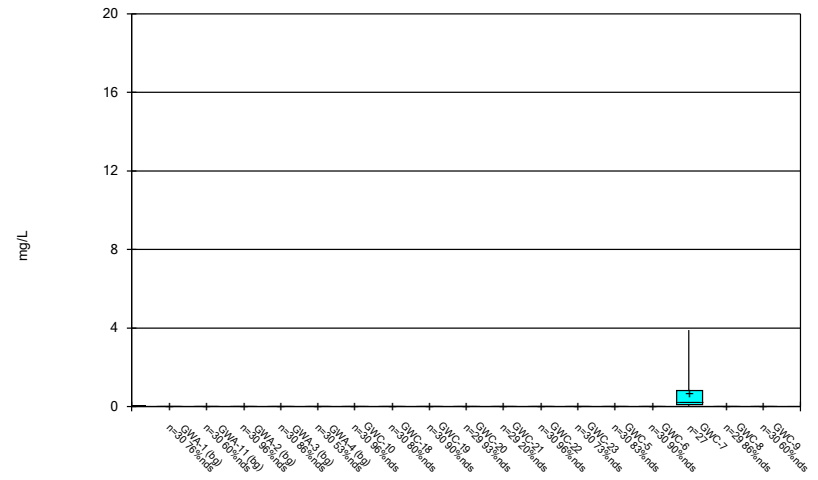
Constituent: Fluoride Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



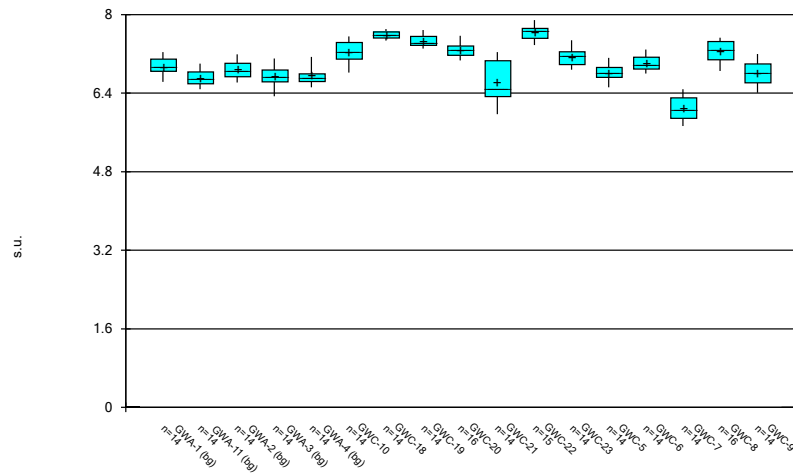
Constituent: Lead Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



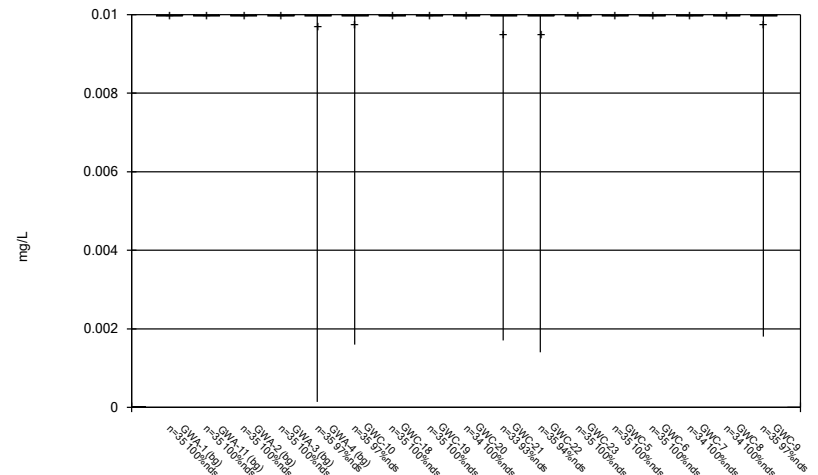
Constituent: Nickel Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



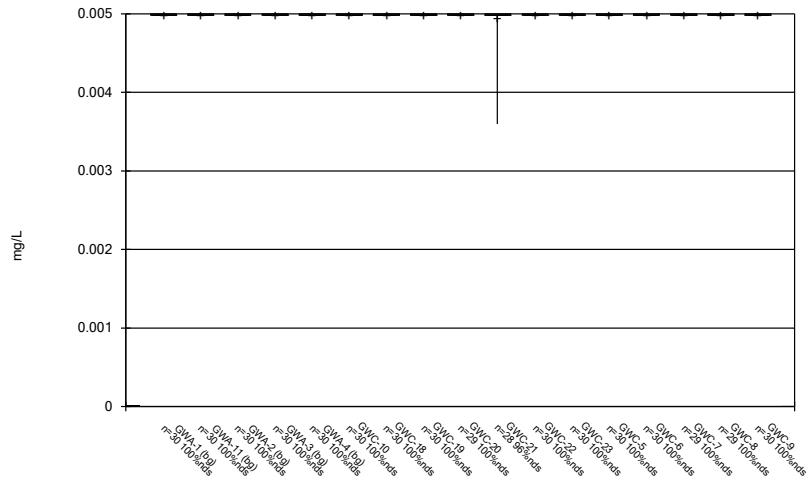
Constituent: pH Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



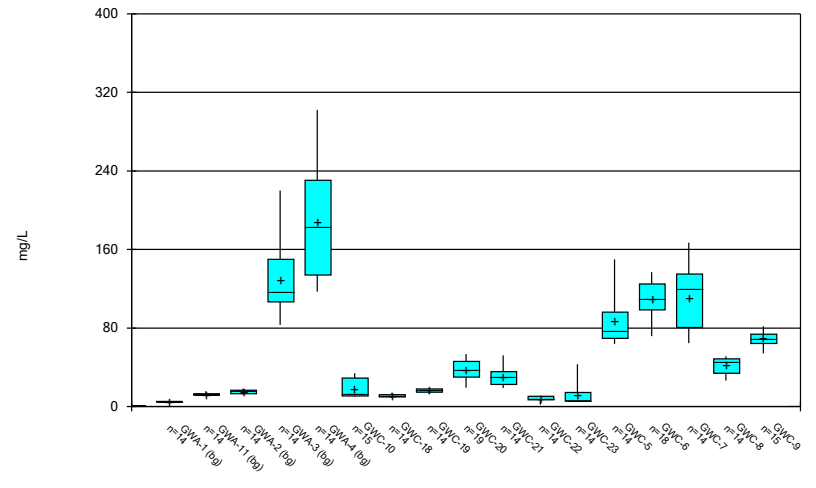
Constituent: Selenium Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



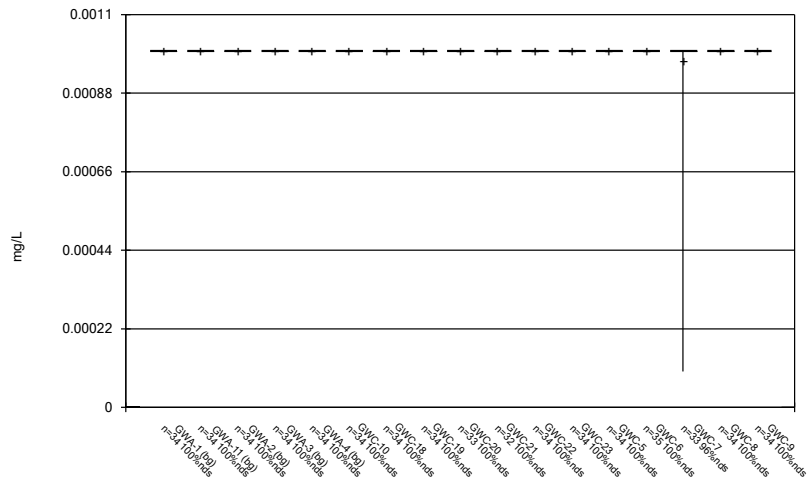
Constituent: Silver Analysis Run 6/12/2020 2:51 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



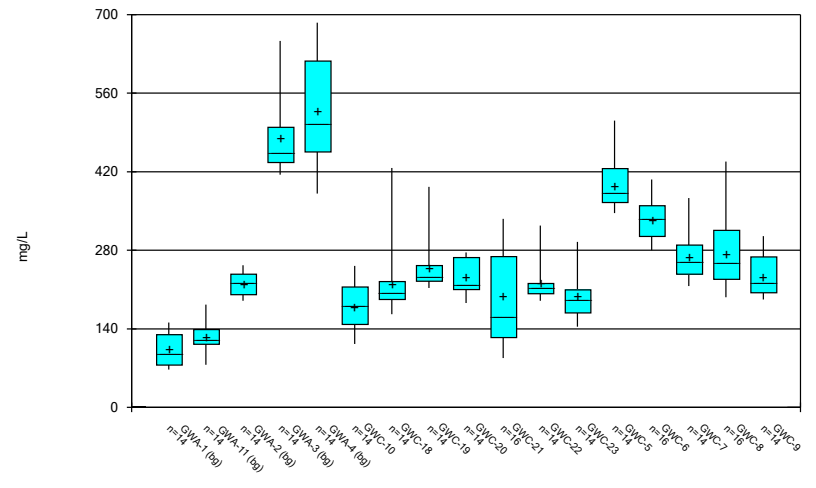
Constituent: Sulfate Analysis Run 6/12/2020 2:51 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



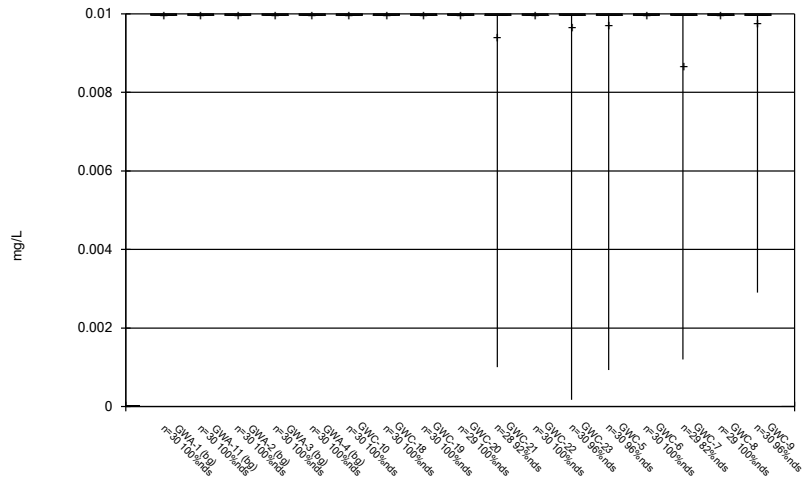
Constituent: Thallium Analysis Run 6/12/2020 2:51 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



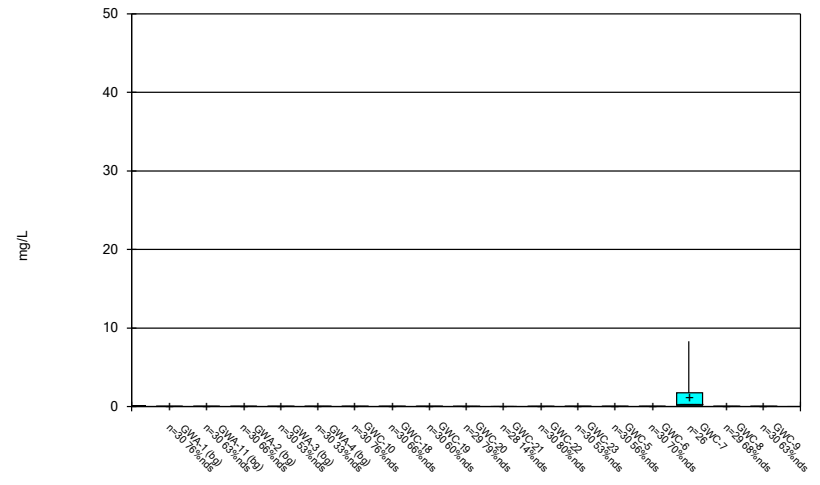
Constituent: Total Dissolved Solids Analysis Run 6/12/2020 2:51 PM  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



Constituent: Vanadium Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Box & Whiskers Plot



Constituent: Zinc Analysis Run 6/12/2020 2:51 PM  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

FIGURE C.

# Outlier Summary

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 5/28/2020, 3:53 PM

	GWC-8 Antimony (mg/L)	GWC-7 Arsenic (mg/L)	GWC-7 Beryllium (mg/L)	GWC-7 Cadmium (mg/L)	GWC-8 Calcium (mg/L)	GWC-20 Chloride (mg/L)	GWC-7 Chromium (mg/L)	GWC-7 Cobalt (mg/L)	GWC-7 Copper (mg/L)	GWC-7 Nickel (mg/L)
5/9/2007	0.038 (o)	0.28 (o)	0.023 (o)			0.11 (o)	6.5 (o)	0.44 (o)	18 (o)	
7/6/2007							2.1 (o)		5.9 (o)	
8/28/2007							1.4 (o)			
11/6/2007	0.0064 (o)						1.1 (o)			
10/5/2017						5.5 (o)				
10/4/2018					264 (o)					

	GWC-7 Zinc (mg/L)
5/9/2007	45 (o)
7/6/2007	16 (o)
8/28/2007	11 (o)
11/6/2007	
10/5/2017	
10/4/2018	



FIGURE D.

# State Parameter Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 5/28/2020, 4:07 PM

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-19	0.1697	n/a	3/31/2020	0.17	Yes	23	0.00038790	0.000176	0	None	x^4	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-20	0.1358	n/a	3/31/2020	0.15	Yes	31	0.001502	0.0004195	0	None	x^3	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-8	0.1227	n/a	3/27/2020	0.14	Yes	31	0.316	0.01439	0	None	sqrt(x)	0.0002926	Param Intra 1 of 2

# State Parameter Prediction Limits - All Results

Plant Hammond    Client: Southern Company    Data: Huffaker Road Landfill    Printed 5/28/2020, 4:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-1	0.003	n/a	3/26/2020	0.00028	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-11	0.003	n/a	3/26/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-2	0.003	n/a	3/26/2020	0.00049	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-3	0.003	n/a	3/26/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-4	0.003	n/a	3/26/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-10	0.003	n/a	3/27/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-19	0.003	n/a	3/31/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5	0.003	n/a	3/31/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-6	0.003	n/a	3/31/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-7	0.003	n/a	3/30/2020	0.003ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-8	0.003	n/a	3/27/2020	0.003ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	3/27/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-11	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-3	0.005	n/a	3/26/2020	0.00048	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-4	0.0065	n/a	3/26/2020	0.00044	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.005	n/a	3/30/2020	0.00073	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.005	n/a	3/31/2020	0.00035	No	30	n/a	n/a	86.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-23	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-7	0.0088	n/a	3/30/2020	0.0052	No	30	n/a	n/a	46.67	n/a	n/a	0.002008	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-8	0.005	n/a	3/27/2020	0.002	No	31	n/a	n/a	87.1	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.005	n/a	3/27/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-1	0.05021	n/a	3/26/2020	0.032	No	32	0.03919	0.00463	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWA-11	0.04217	n/a	3/26/2020	0.031	No	32	-3.4	0.09826	0	None	ln(x)	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWA-2	0.1987	n/a	3/26/2020	0.16	No	23	0.1657	0.01314	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWA-3	0.2268	n/a	3/26/2020	0.14	No	32	0.1719	0.02304	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWA-4	0.14	n/a	3/26/2020	0.049	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-10	0.1952	n/a	3/27/2020	0.037	No	34	0.1271	0.02885	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-18	0.08974	n/a	3/30/2020	0.077	No	32	0.07311	0.006987	0	None	No	0.0002926	Param Intra 1 of 2
<b>Barium (mg/L)</b>	<b>GWC-19</b>	<b>0.1697</b>	<b>n/a</b>	<b>3/31/2020</b>	<b>0.17</b>	<b>Yes</b>	<b>23</b>	<b>0.00038790</b>	<b>0.000176</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.0002926</b>	<b>Param Intra 1 of 2</b>
<b>Barium (mg/L)</b>	<b>GWC-20</b>	<b>0.1358</b>	<b>n/a</b>	<b>3/31/2020</b>	<b>0.15</b>	<b>Yes</b>	<b>31</b>	<b>0.001502</b>	<b>0.0004195</b>	<b>0</b>	<b>None</b>	<b>x^3</b>	<b>0.0002926</b>	<b>Param Intra 1 of 2</b>
Barium (mg/L)	GWC-21	0.2404	n/a	3/31/2020	0.044	No	30	-2.722	0.5402	0	None	ln(x)	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-22	0.121	n/a	3/31/2020	0.1	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-23	0.08464	n/a	3/26/2020	0.071	No	32	0.06272	0.009212	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-5	0.1274	n/a	3/31/2020	0.064	No	32	0.1019	0.01074	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-6	0.1978	n/a	3/31/2020	0.18	No	11	0.1654	0.01034	0	None	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-7	0.4063	n/a	3/30/2020	0.21	No	19	0.3226	0.1206	0	None	sqrt(x)	0.0002926	Param Intra 1 of 2
<b>Barium (mg/L)</b>	<b>GWC-8</b>	<b>0.1227</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>0.14</b>	<b>Yes</b>	<b>31</b>	<b>0.316</b>	<b>0.01439</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0002926</b>	<b>Param Intra 1 of 2</b>
Barium (mg/L)	GWC-9	0.07338	n/a	3/27/2020	0.06	No	20	0.06193	0.00445	0	None	No	0.0002926	Param Intra 1 of 2
Beryllium (mg/L)	GWA-3	0.003	n/a	3/26/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-7	0.137	n/a	3/30/2020	0.003ND	No	30	-6.771	1.993	23.33	Kaplan-Meier	ln(x)	0.0002926	Param Intra 1 of 2
Cadmium (mg/L)	GWA-4	0.0025	n/a	3/26/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-10	0.0025	n/a	3/27/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-18	0.0025	n/a	3/30/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-20	0.0025	n/a	3/31/2020	0.0025ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-21	0.0025	n/a	3/31/2020	0.0025ND	No	30	n/a	n/a	93.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-23	0.0025	n/a	3/26/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5	0.0025	n/a	3/31/2020	0.0025ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-7	0.0081	n/a	3/30/2020	0.0025ND	No	30	n/a	n/a	80	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-8	0.0025	n/a	3/27/2020	0.0025ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-9	0.0025	n/a	3/27/2020	0.0025ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-1	0.016	n/a	3/26/2020	0.01ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-11	0.01	n/a	3/26/2020	0.01ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2	0.01	n/a	3/26/2020	0.00043	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-3	0.01	n/a	3/26/2020	0.00062	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2

# State Parameter Prediction Limits - All Results

Plant Hammond    Client: Southern Company    Data: Huffaker Road Landfill    Printed 5/28/2020, 4:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWA-4	0.01	n/a	3/26/2020	0.0013	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-10	0.01	n/a	3/27/2020	0.01ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-18	0.01	n/a	3/30/2020	0.00071	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-19	0.01	n/a	3/31/2020	0.00042	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.01	n/a	3/31/2020	0.01ND	No	31	n/a	n/a	90.32	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.01	n/a	3/31/2020	0.00093	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.01	n/a	3/31/2020	0.0015	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-23	0.01	n/a	3/26/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5	0.01	n/a	3/31/2020	0.01ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-6	0.01	n/a	3/31/2020	0.00085	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-7	0.01	n/a	3/30/2020	0.00041	No	30	n/a	n/a	83.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-8	0.01	n/a	3/27/2020	0.01ND	No	31	n/a	n/a	90.32	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.01ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-1	0.01	n/a	3/26/2020	0.00049	No	32	n/a	n/a	68.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-11	0.01	n/a	3/26/2020	0.00063	No	32	n/a	n/a	62.5	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-2	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-3	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-4	0.01	n/a	3/26/2020	0.00082	No	32	n/a	n/a	68.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-10	0.0025	n/a	3/27/2020	0.00082	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-21	0.01	n/a	3/31/2020	0.0019	No	30	n/a	n/a	63.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-23	0.01	n/a	3/26/2020	0.00035	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-7	0.08032	n/a	3/30/2020	0.012	No	17	0.03376	0.01735	0	None	No	0.0002926	Param Intra 1 of 2
Cobalt (mg/L)	GWC-8	0.01	n/a	3/27/2020	0.0016	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.00063	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-11	0.005	n/a	3/26/2020	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.005	n/a	3/26/2020	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-3	0.025	n/a	3/26/2020	0.00022	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-4	0.0066	n/a	3/26/2020	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-10	0.025	n/a	3/27/2020	0.00022	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-18	0.005	n/a	3/30/2020	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-19	0.005	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-20	0.005	n/a	3/31/2020	0.005ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-21	0.025	n/a	3/31/2020	0.00082	No	25	n/a	n/a	76	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-22	0.025	n/a	3/31/2020	0.0002	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-23	0.025	n/a	3/26/2020	0.00067	No	27	n/a	n/a	85.19	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.025	n/a	3/31/2020	0.00019	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.005	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-7	0.016	n/a	3/30/2020	0.005ND	No	25	n/a	n/a	80	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-8	0.005	n/a	3/27/2020	0.005ND	No	26	n/a	n/a	100	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-9	0.005	n/a	3/27/2020	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-11	0.005	n/a	3/26/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-3	0.005	n/a	3/26/2020	0.000047	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-10	0.005	n/a	3/27/2020	0.000054	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-19	0.005	n/a	3/31/2020	0.000061	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.005	n/a	3/31/2020	0.005ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.005	n/a	3/31/2020	0.005ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.005	n/a	3/31/2020	0.00013	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-23	0.005	n/a	3/26/2020	0.00016	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-6	0.005	n/a	3/31/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-7	0.005	n/a	3/30/2020	0.000048	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-8	0.005	n/a	3/27/2020	0.005ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-1	0.01	n/a	3/26/2020	0.00065	No	27	n/a	n/a	85.19	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

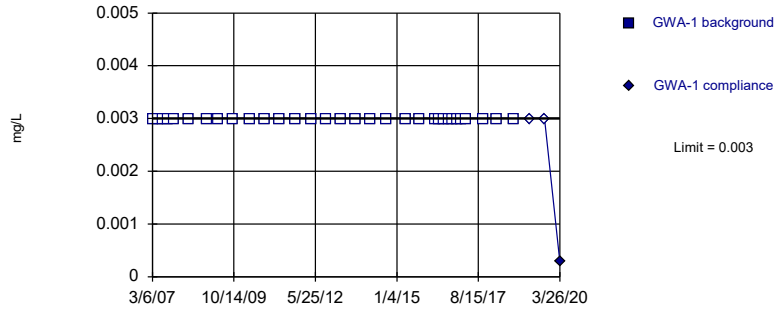
# State Parameter Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 5/28/2020, 4:08 PM

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-11	0.01	n/a	3/26/2020	0.002	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.005	n/a	3/26/2020	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-3	0.01	n/a	3/26/2020	0.0011	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-4	0.01	n/a	3/26/2020	0.00096	No	27	n/a	n/a	59.26	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-10	0.01	n/a	3/27/2020	0.0023	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-18	0.01	n/a	3/30/2020	0.00048	No	27	n/a	n/a	85.19	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-19	0.0062	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-20	0.005	n/a	3/31/2020	0.005ND	No	26	n/a	n/a	92.31	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-21	0.01035	n/a	3/31/2020	0.0039	No	26	0.1566	0.02496	23.08	Kaplan-Meier	x^(1/3)	0.0002926	Param Intra 1 of 2
Nickel (mg/L)	GWC-22	0.005	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-23	0.01	n/a	3/26/2020	0.001	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5	0.01	n/a	3/31/2020	0.0013	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-6	0.005	n/a	3/31/2020	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-7	0.3321	n/a	3/30/2020	0.037	No	12	0.133	0.06625	0	None	No	0.0002926	Param Intra 1 of 2
Nickel (mg/L)	GWC-8	0.01	n/a	3/27/2020	0.00053	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.0022	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-4	0.01	n/a	3/26/2020	0.01ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-10	0.01	n/a	3/27/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.01	n/a	3/31/2020	0.01ND	No	30	n/a	n/a	93.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.01	n/a	3/31/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-21	0.005	n/a	3/31/2020	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-7	0.001	n/a	3/30/2020	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.01	n/a	3/31/2020	0.01ND	No	25	n/a	n/a	92	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-23	0.01	n/a	3/26/2020	0.01ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5	0.01	n/a	3/31/2020	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-7	0.01	n/a	3/30/2020	0.01ND	No	26	n/a	n/a	80.77	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.01	n/a	3/27/2020	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-1	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-11	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-3	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	55.56	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-4	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	33.33	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-10	0.02	n/a	3/27/2020	0.02ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-18	0.02	n/a	3/30/2020	0.02ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-19	0.02	n/a	3/31/2020	0.02ND	No	27	n/a	n/a	59.26	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-20	0.02	n/a	3/31/2020	0.02ND	No	26	n/a	n/a	80.77	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-21	0.02	n/a	3/31/2020	0.02ND	No	25	n/a	n/a	12	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.02	n/a	3/31/2020	0.02ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-23	0.02	n/a	3/26/2020	0.02ND	No	27	n/a	n/a	55.56	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5	0.02	n/a	3/31/2020	0.02ND	No	27	n/a	n/a	55.56	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-6	0.02	n/a	3/31/2020	0.02ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-7	0.6123	n/a	3/30/2020	0.051	No	12	0.2426	0.123	0	None	No	0.0002926	Param Intra 1 of 2
Zinc (mg/L)	GWC-8	0.02	n/a	3/27/2020	0.02ND	No	26	n/a	n/a	73.08	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-9	0.02	n/a	3/27/2020	0.02ND	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

Within Limit

### Prediction Limit Intrawell Non-parametric

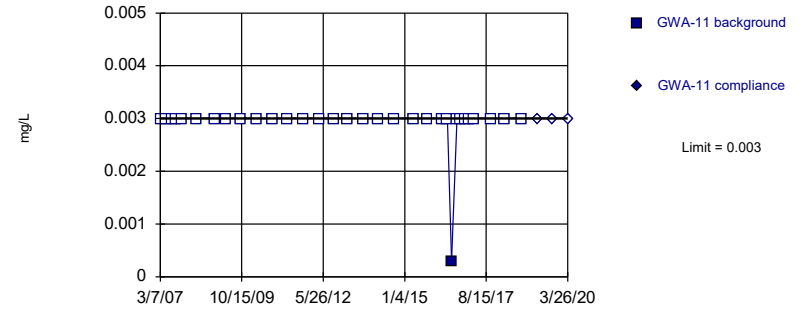


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 3:59 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

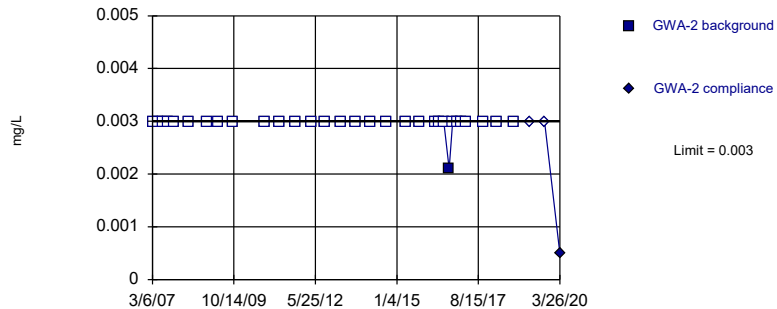


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 3:59 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

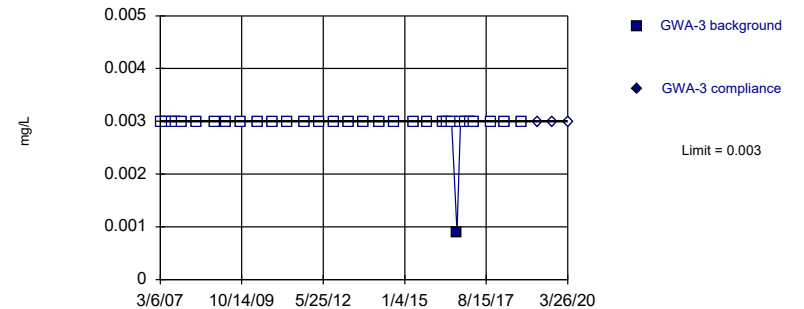


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 3:59 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

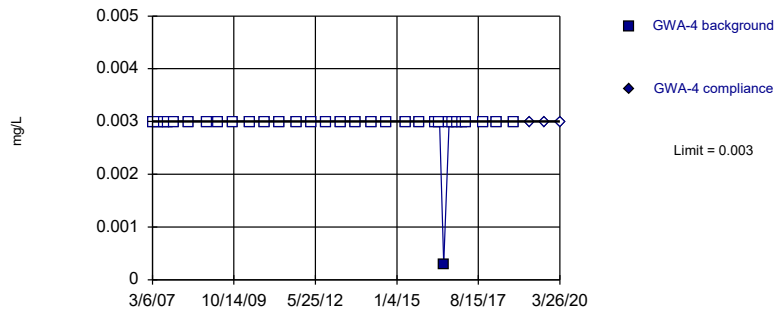


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 3:59 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

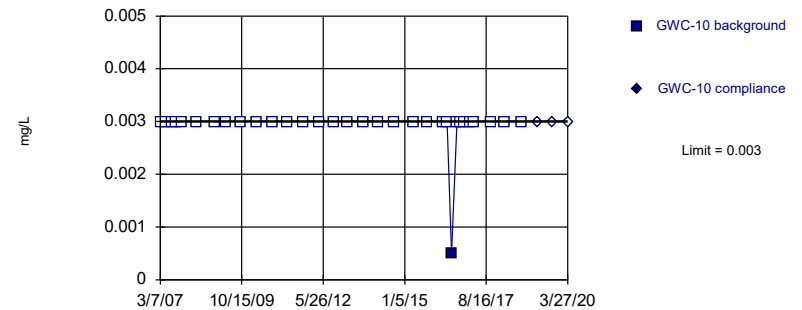


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 3:59 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

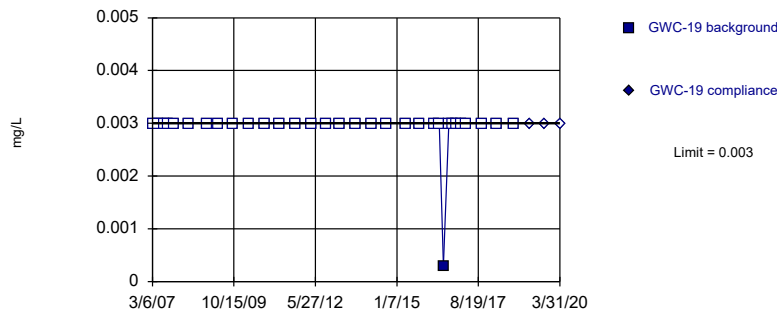


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 3:59 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

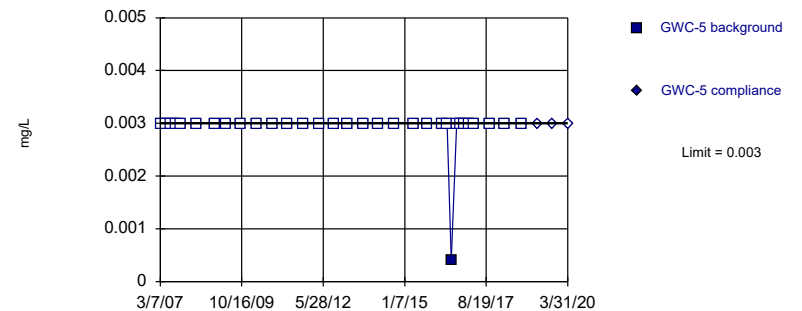


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

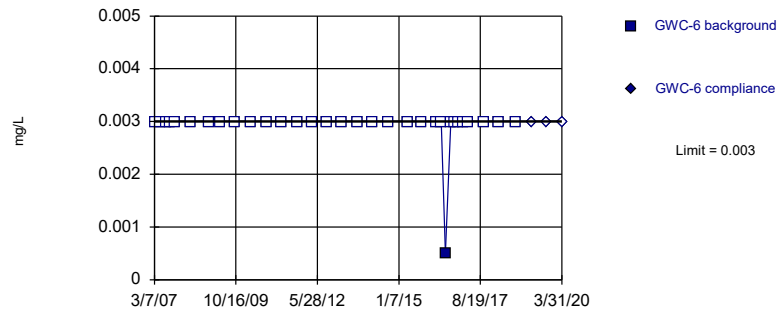


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

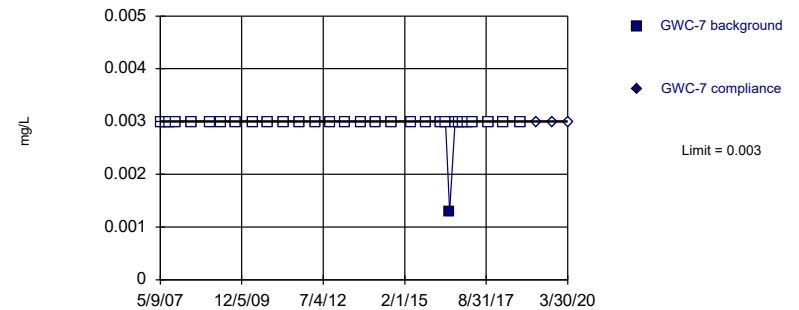


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

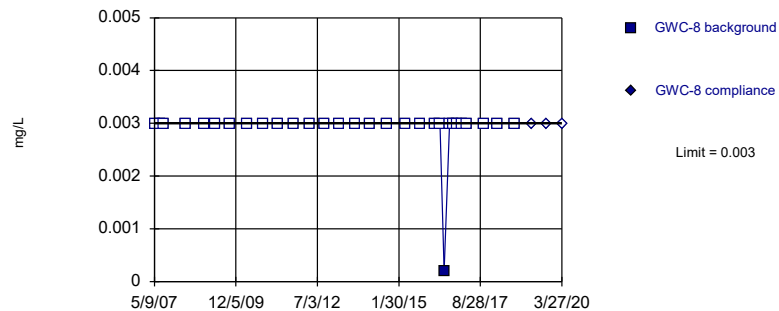


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

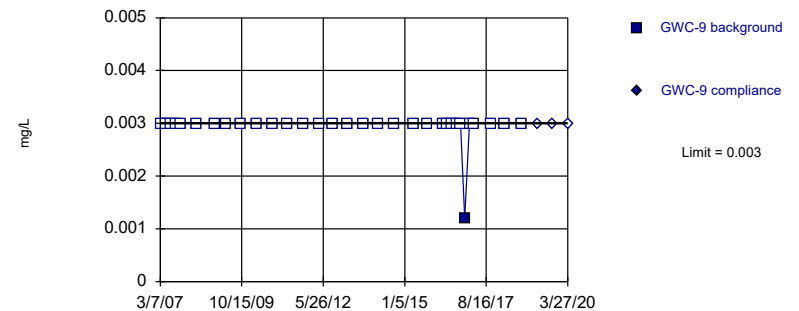


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



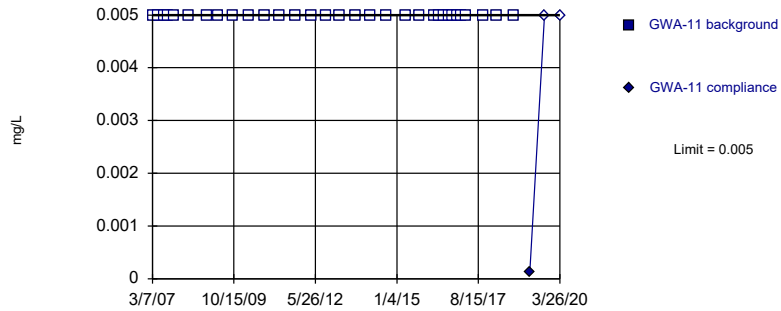
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

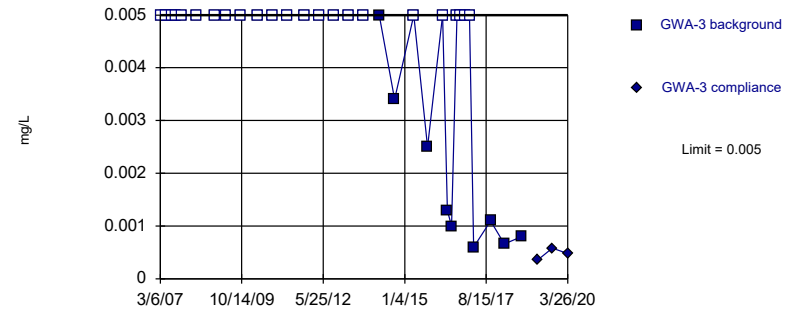


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

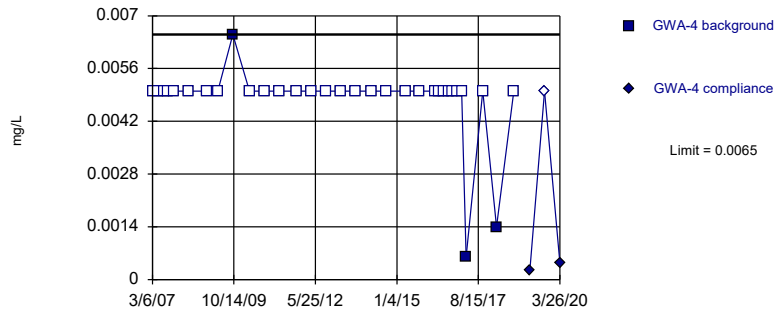


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 71.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

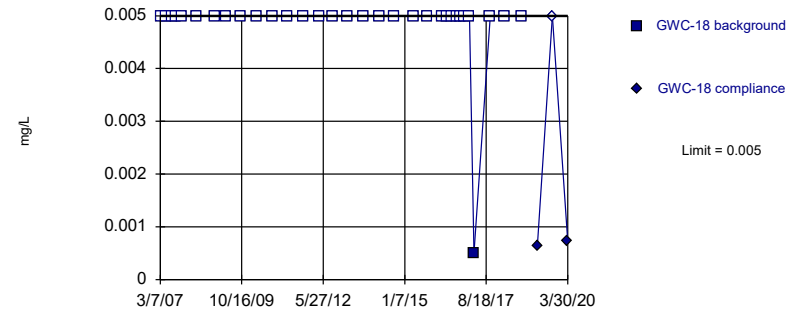


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

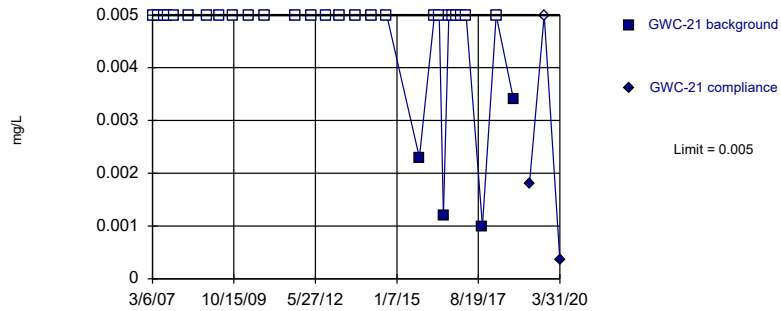


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

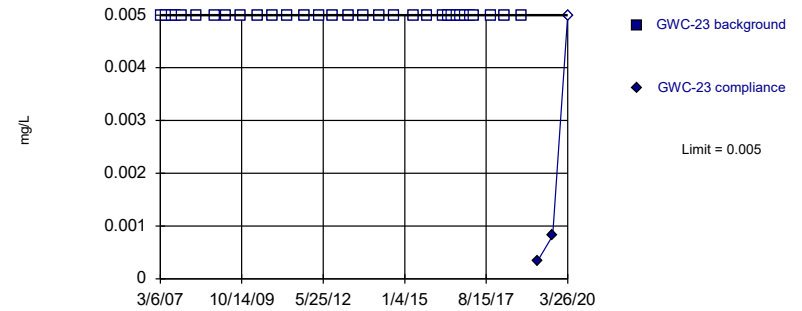


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

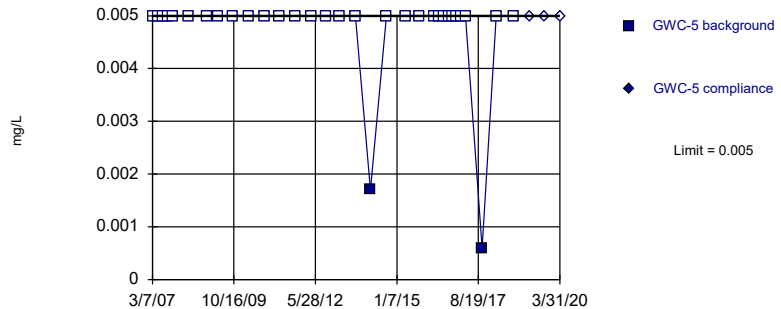


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

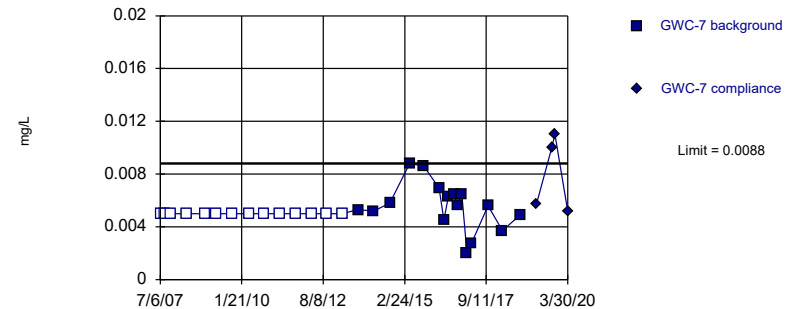


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

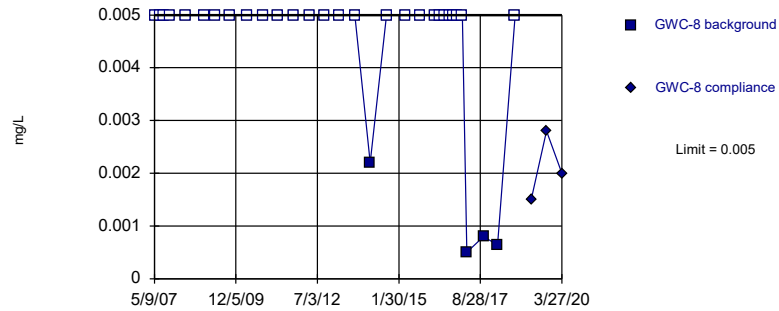


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. 46.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

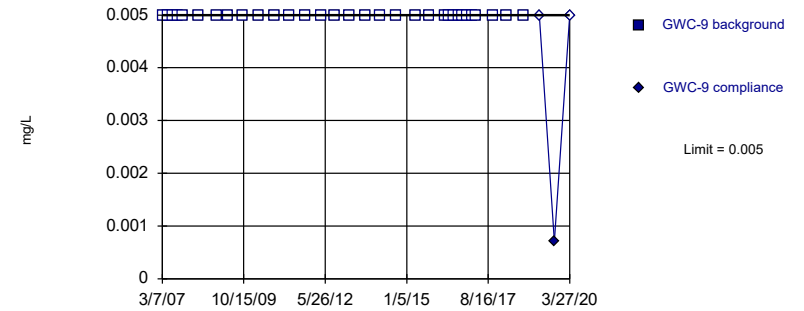


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 87.1% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

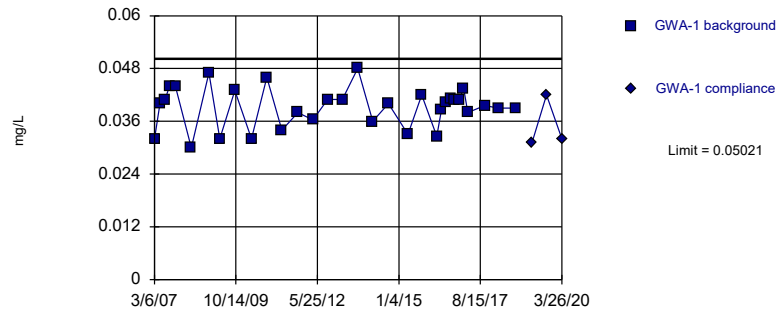


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/28/2020 4:00 PM View: State Parameters  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

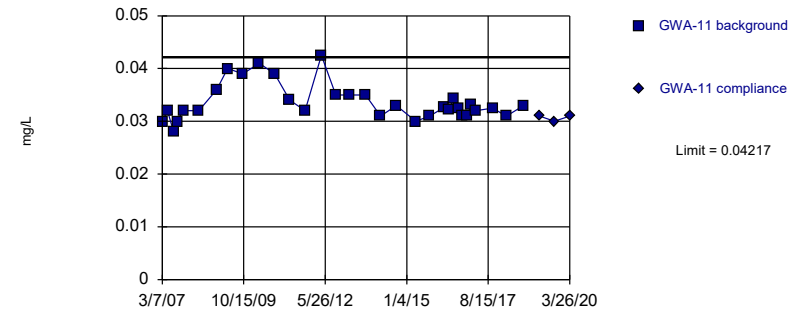


Background Data Summary: Mean=0.03919, Std. Dev.=0.00463, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9563, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

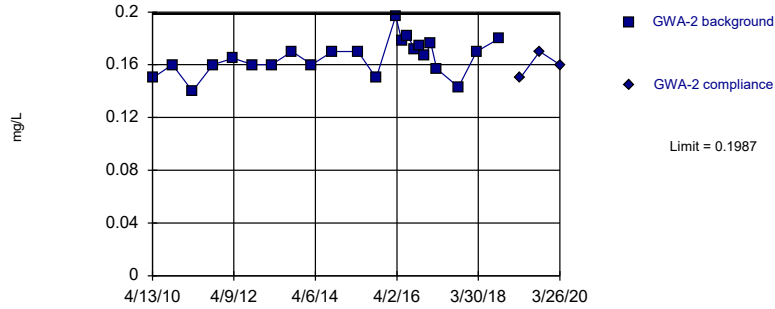


Background Data Summary (based on natural log transformation): Mean=-3.4, Std. Dev.=0.09826, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9108, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

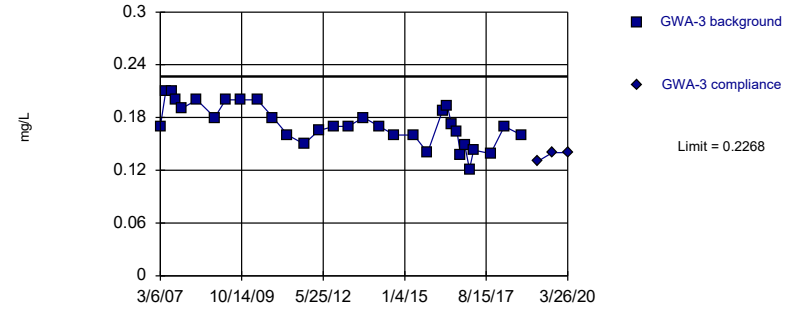


Background Data Summary: Mean=0.1657, Std. Dev.=0.01314, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9756, critical = 0.881. Kappa = 2.512 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

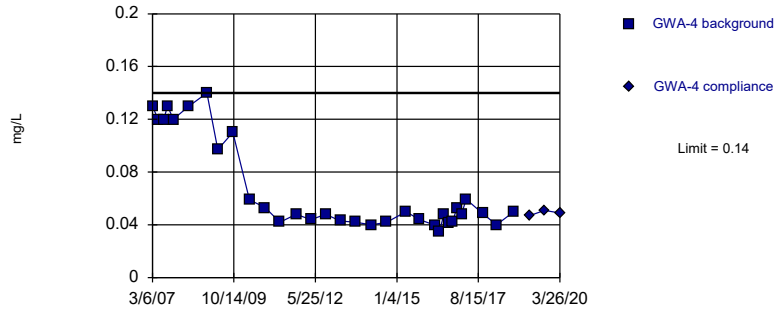


Background Data Summary: Mean=0.1719, Std. Dev.=0.02304, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9617, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

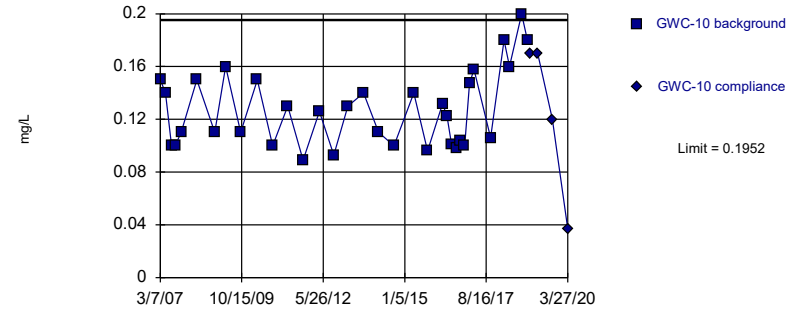


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

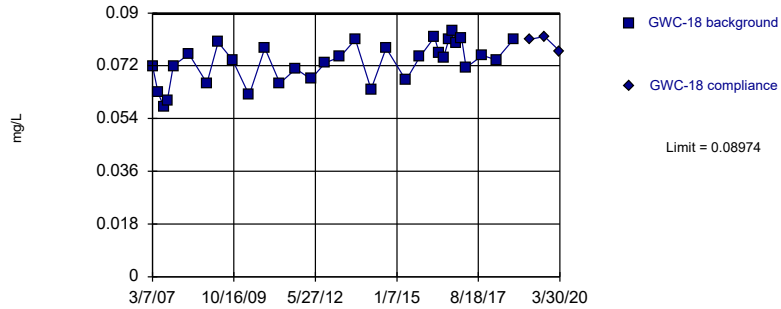


Background Data Summary: Mean=0.1271, Std. Dev.=0.02885, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9143, critical = 0.908. Kappa = 2.36 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Parametric

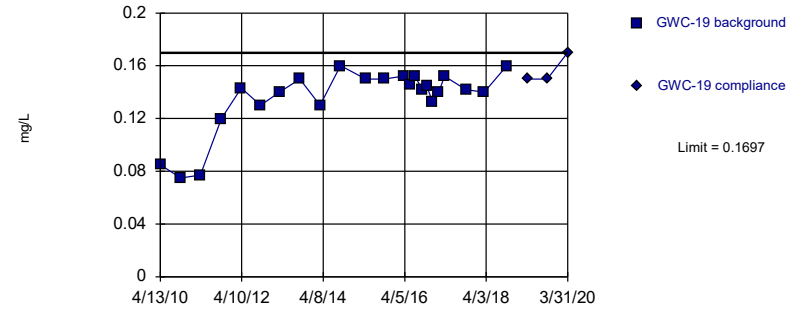


Background Data Summary: Mean=0.07311, Std. Dev.=0.006987, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.946, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Exceeds Limit

### Prediction Limit Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=0.0003879, Std. Dev.=0.000176, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9161, critical = 0.881. Kappa = 2.512 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Exceeds Limit

### Prediction Limit Intrawell Parametric

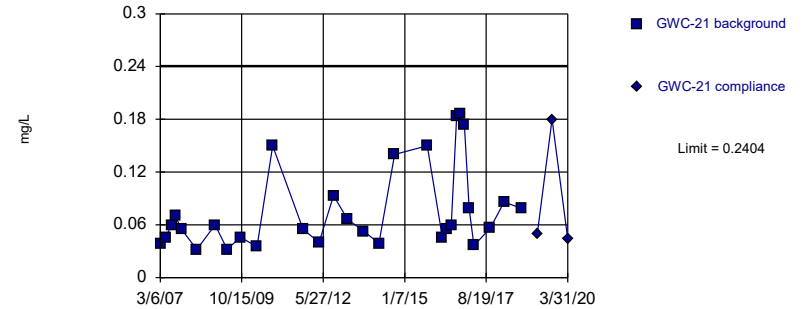


Background Data Summary (based on cube transformation): Mean=0.001502, Std. Dev.=0.0004195, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9239, critical = 0.902. Kappa = 2.39 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Parametric

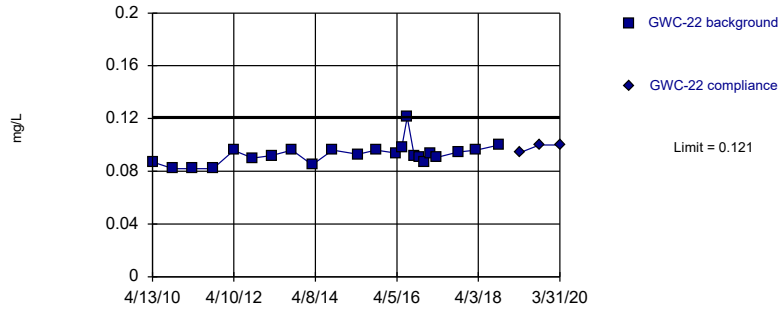


Background Data Summary (based on natural log transformation): Mean=-2.722, Std. Dev.=0.5402, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9034, critical = 0.9. Kappa = 2.4 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

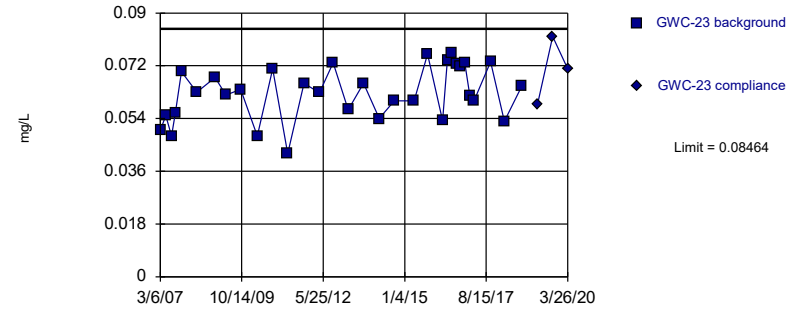


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

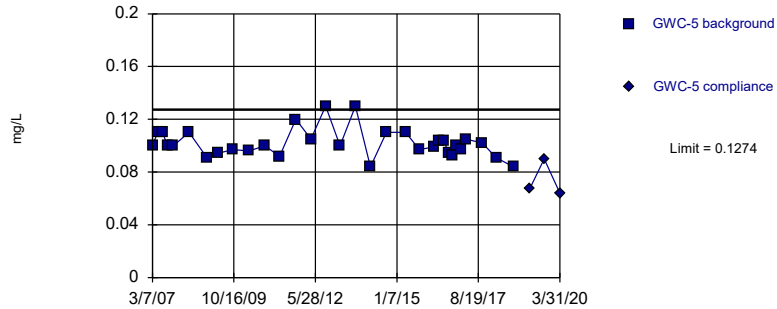


Background Data Summary: Mean=0.06272, Std. Dev.=0.009212, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9573, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

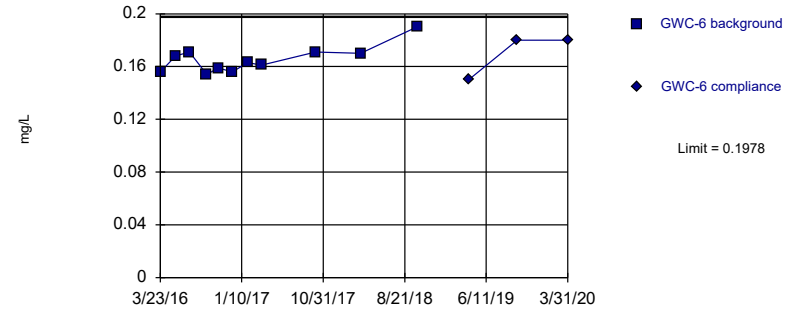


Background Data Summary: Mean=0.1019, Std. Dev.=0.01074, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9137, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

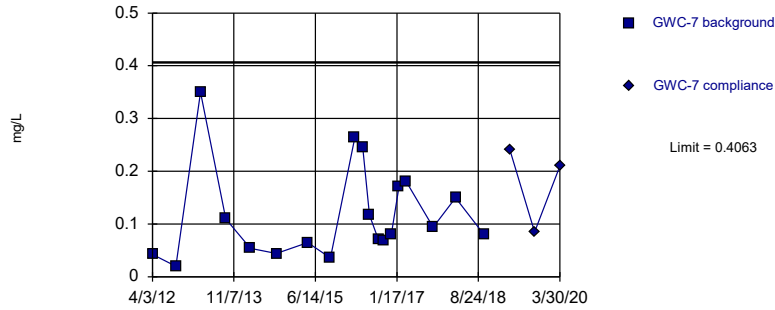


Background Data Summary: Mean=0.1654, Std. Dev.=0.01034, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8754, critical = 0.792. Kappa = 3.135 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

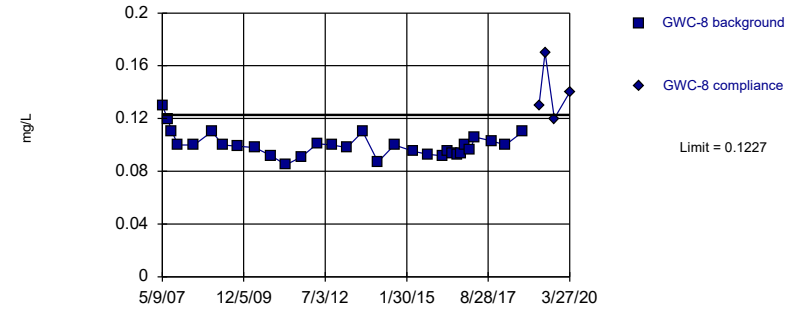


Background Data Summary (based on square root transformation): Mean=0.3226, Std. Dev.=0.1206, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9476, critical = 0.863. Kappa = 2.611 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

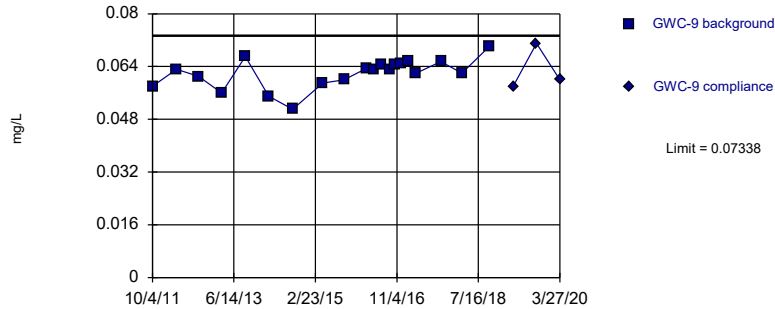


Background Data Summary (based on square root transformation): Mean=0.316, Std. Dev.=0.01439, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9173, critical = 0.902. Kappa = 2.39 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

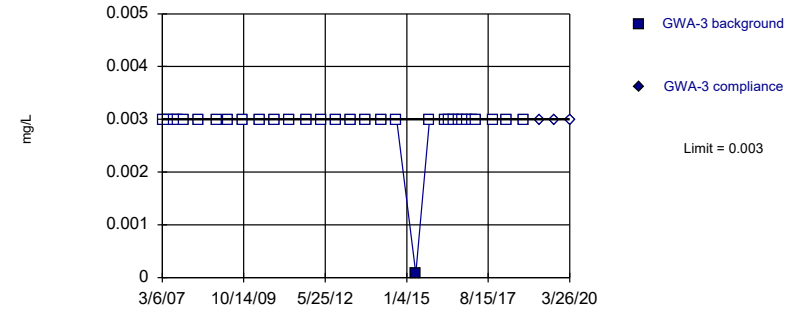


Background Data Summary: Mean=0.06193, Std. Dev.=0.00445, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.868. Kappa = 2.575 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

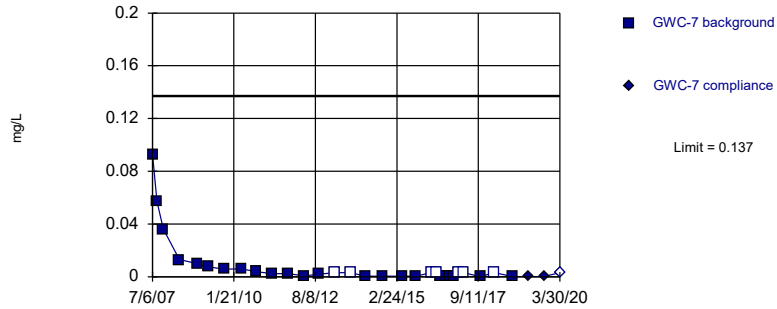


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

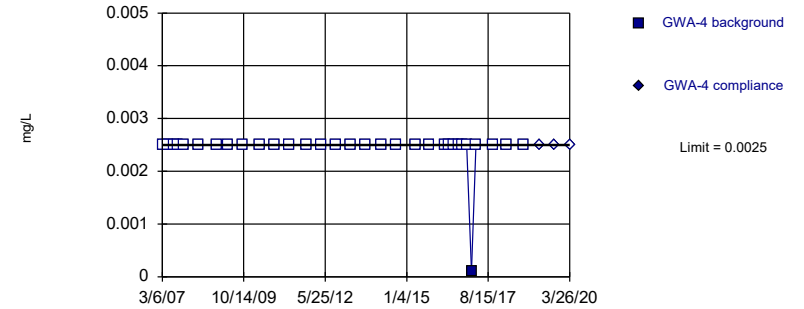


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.771, Std. Dev.=1.993, n=30, 23.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9446, critical = 0.9. Kappa = 2.4 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Beryllium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

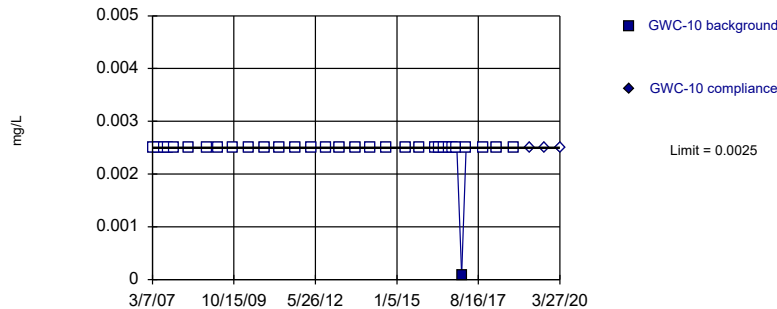


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

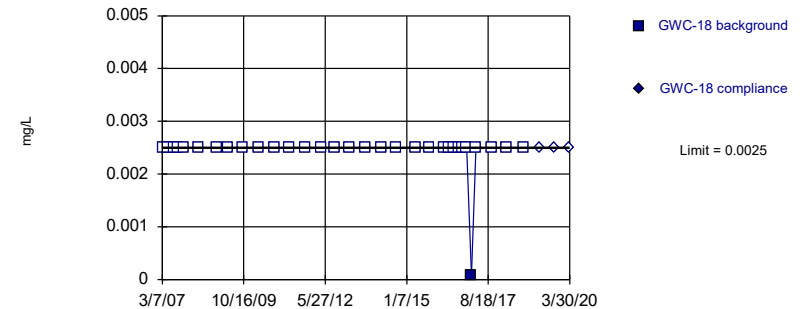


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



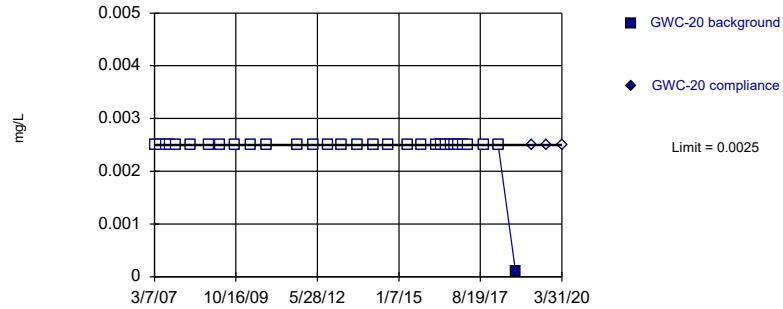
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



Within Limit

### Prediction Limit Intrawell Non-parametric

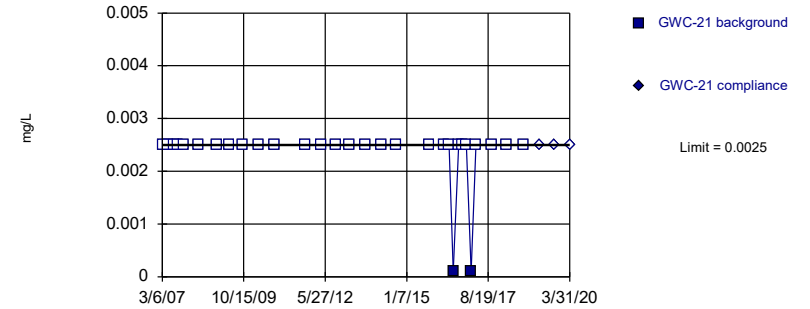


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

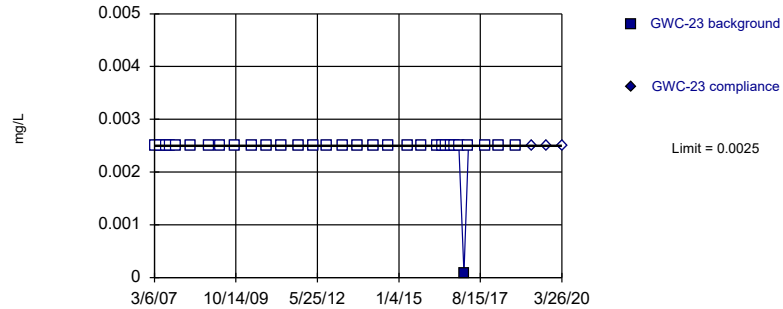


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

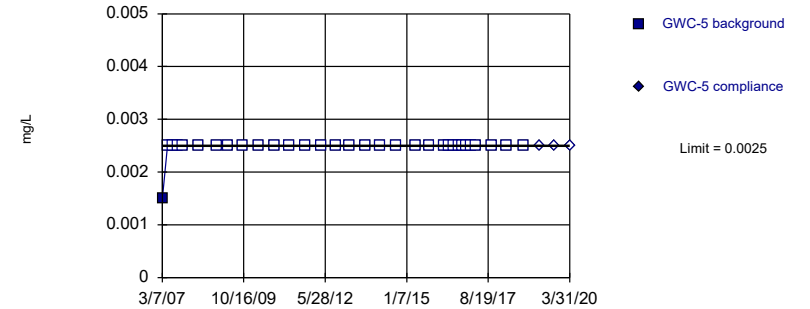


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

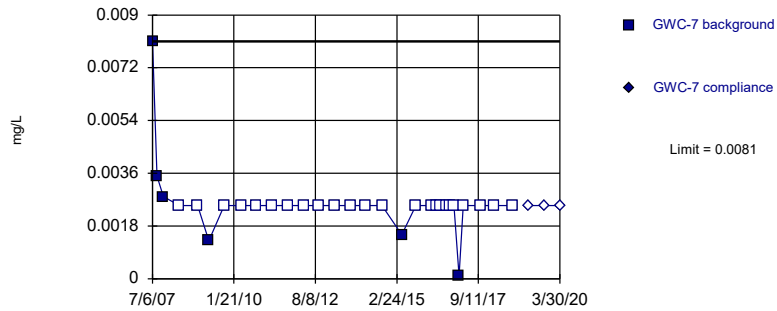


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

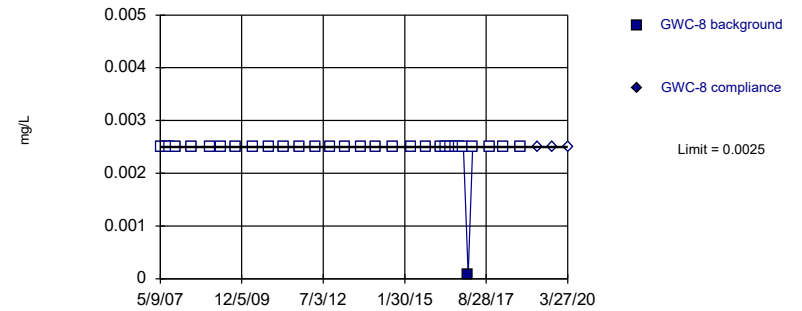


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 80% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

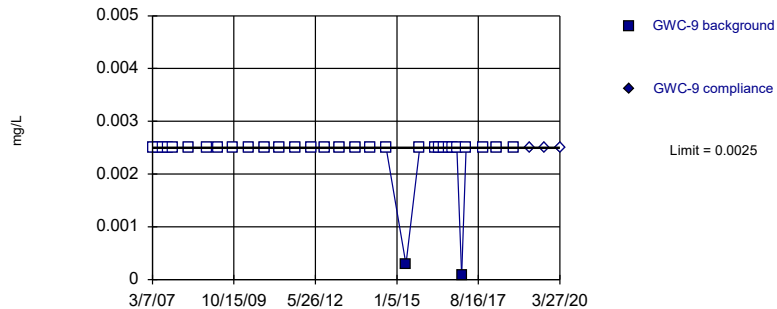


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

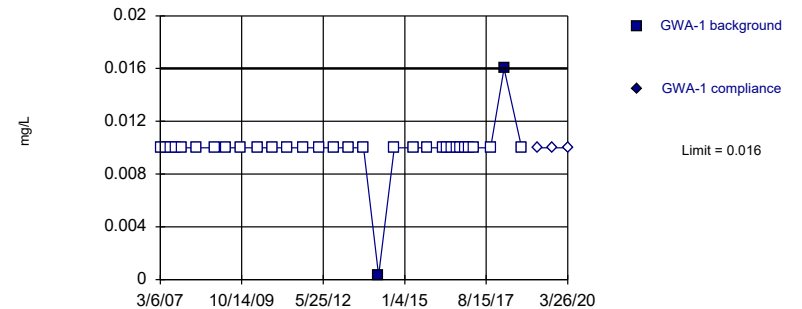


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

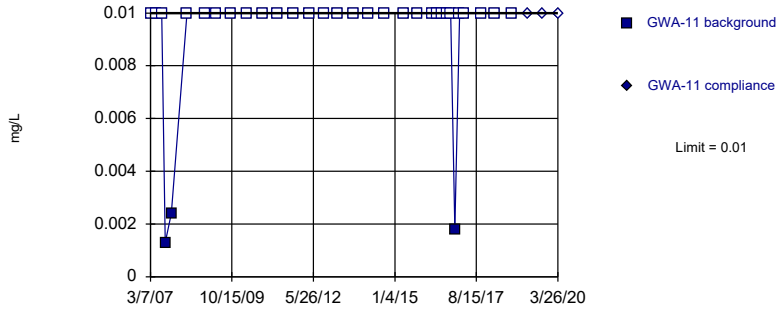


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

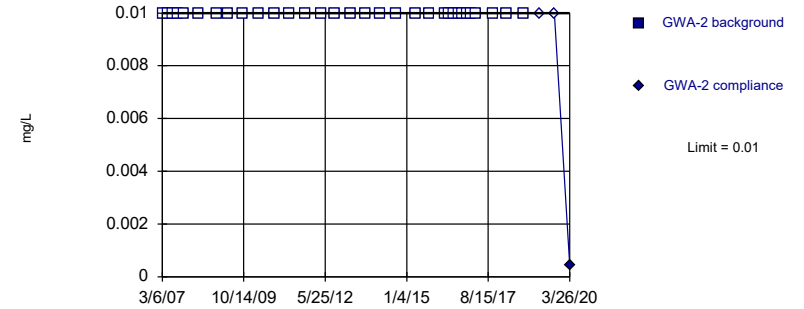


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

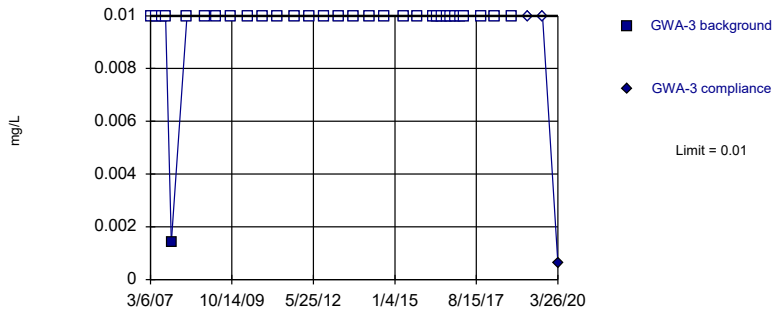


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

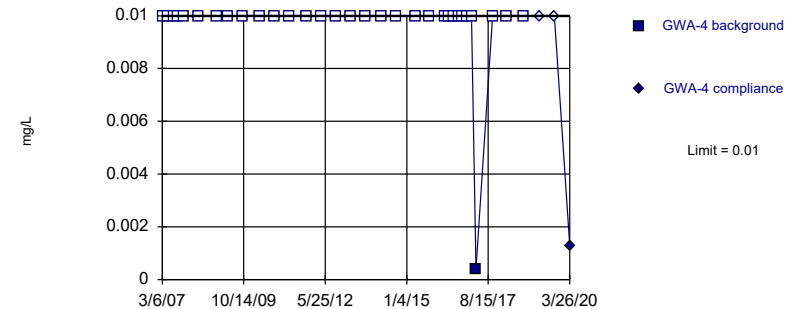


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

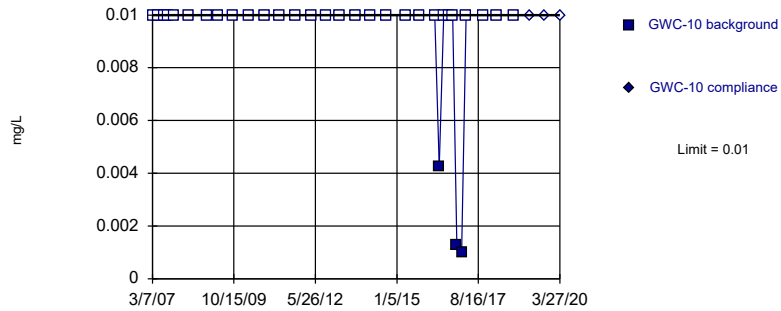


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

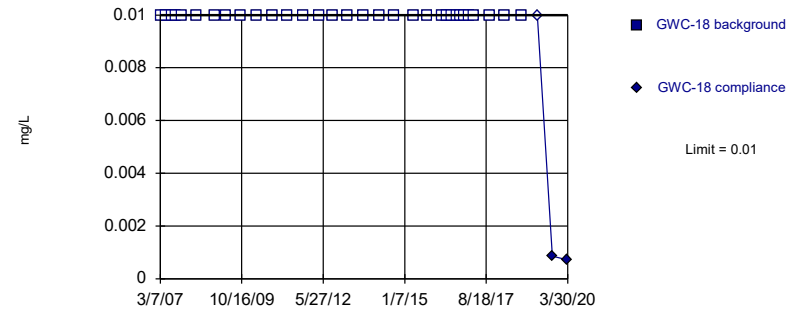


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

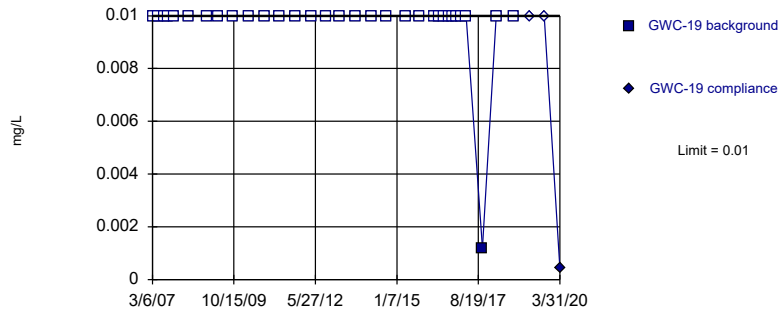


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

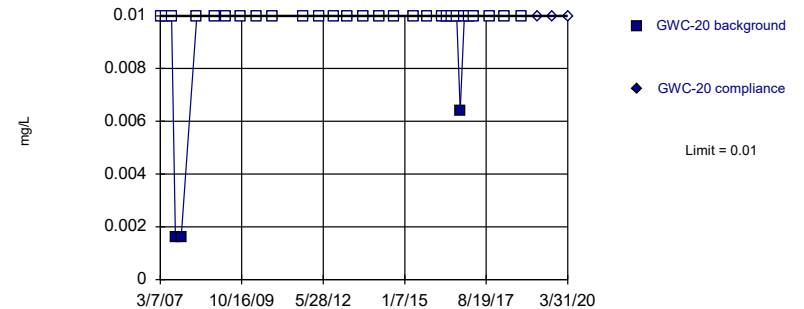


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

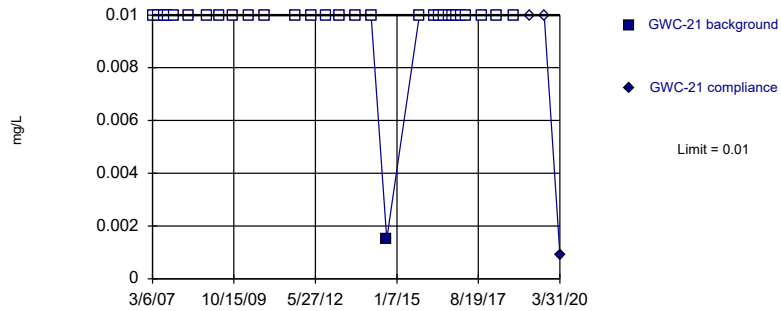


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

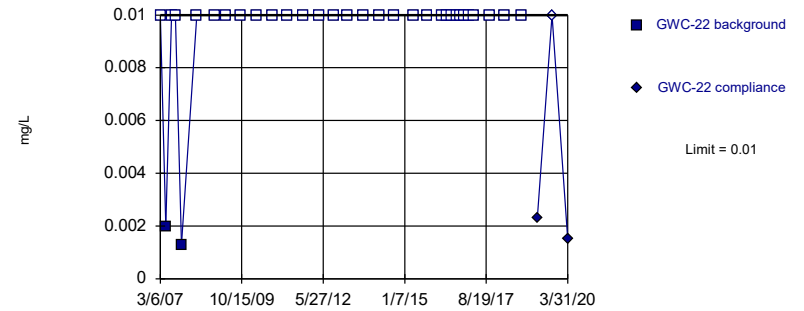


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

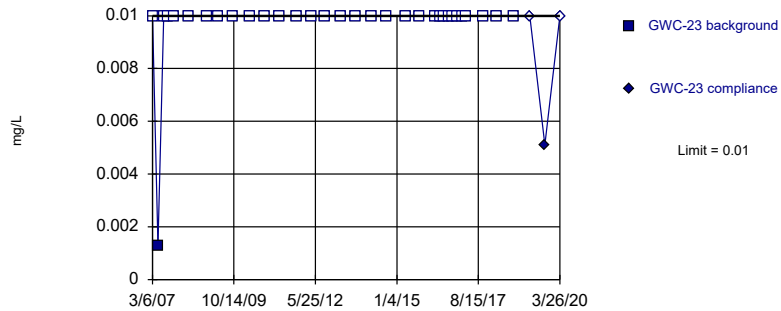


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

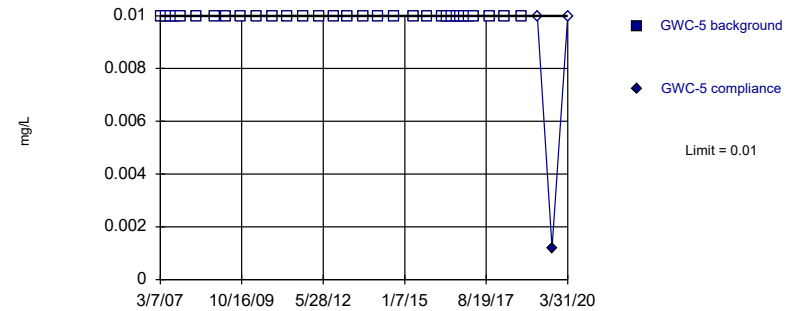


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

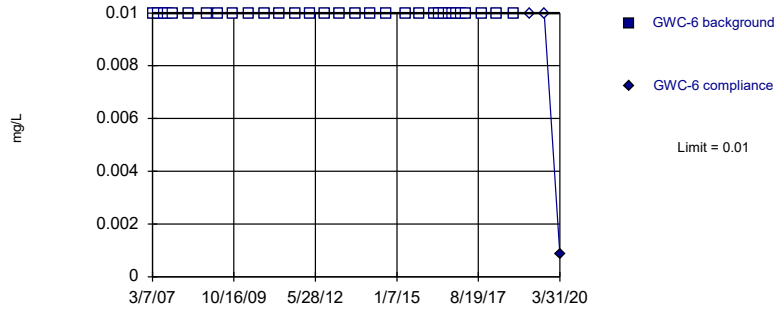


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

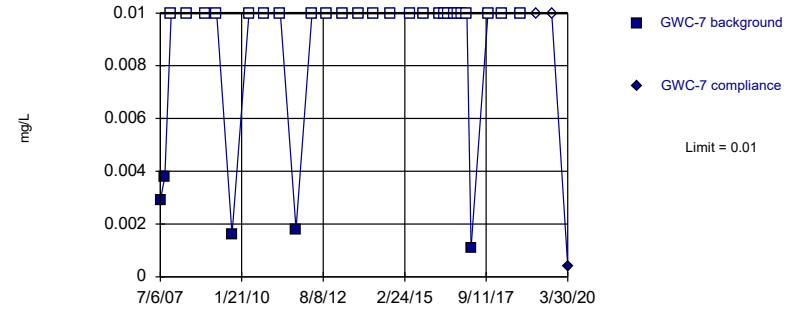


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

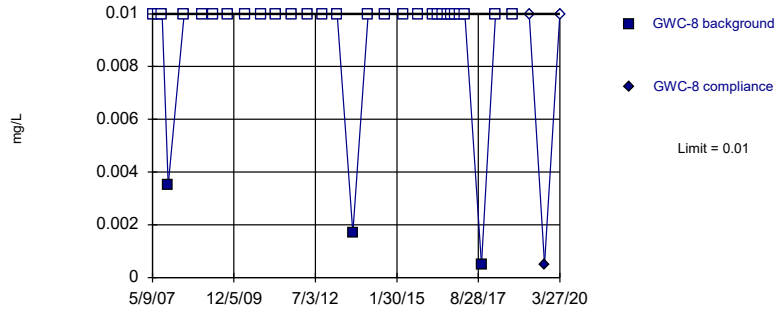


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

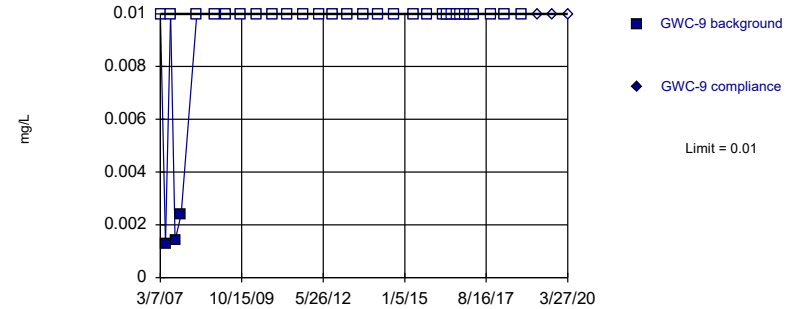


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

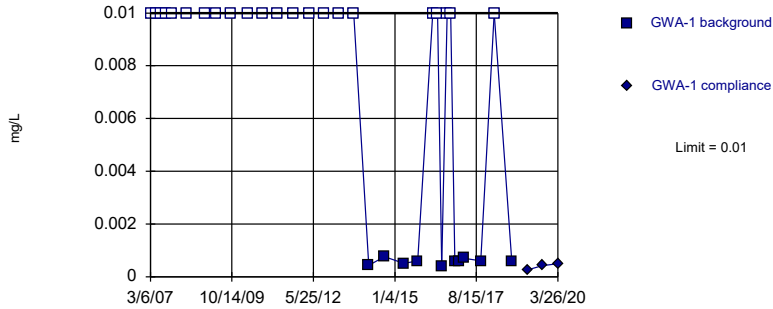


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

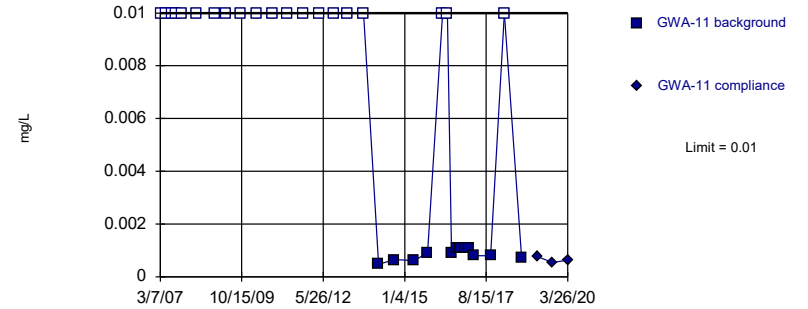


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

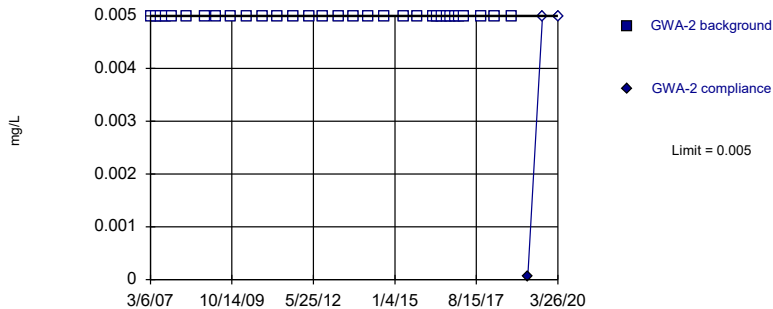


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

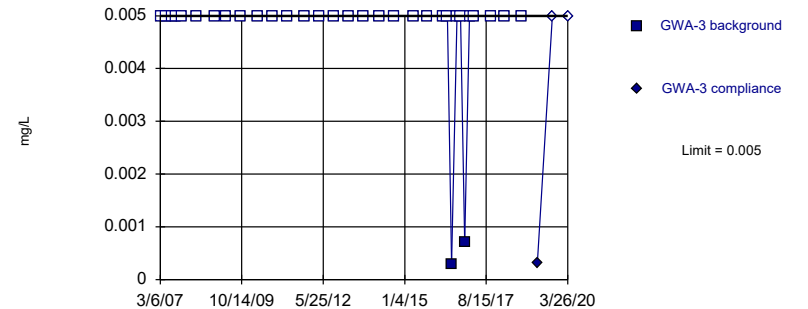


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

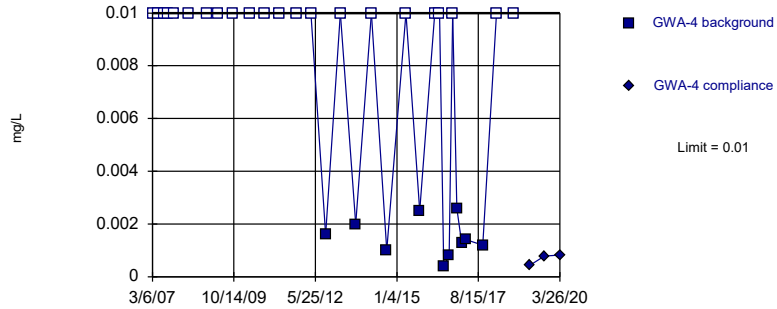


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

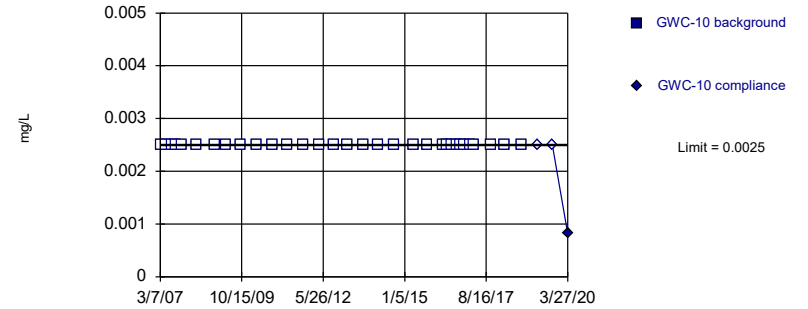


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

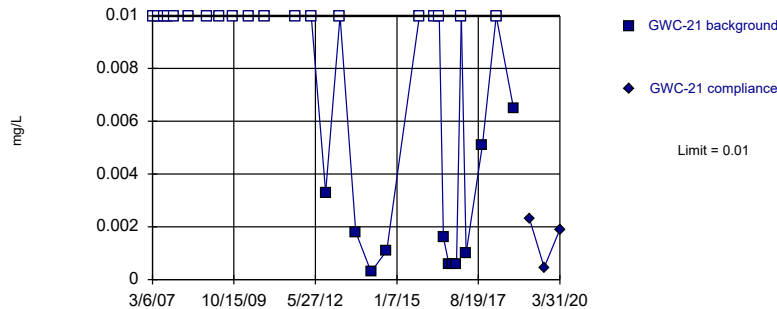


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

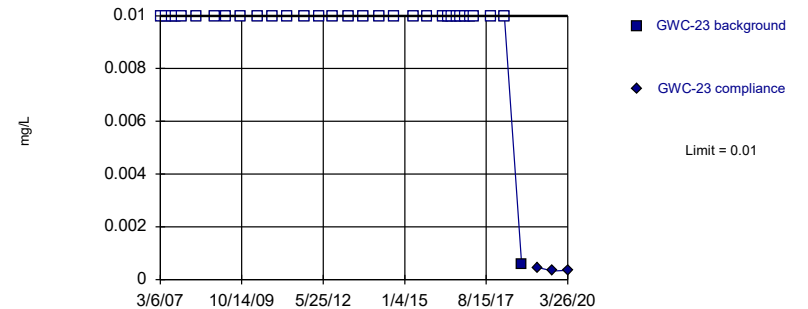


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 63.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



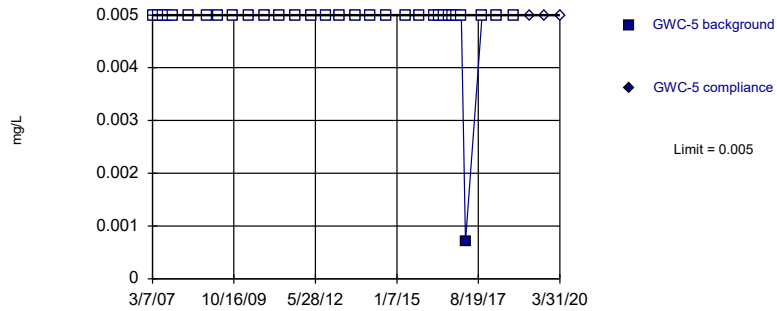
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

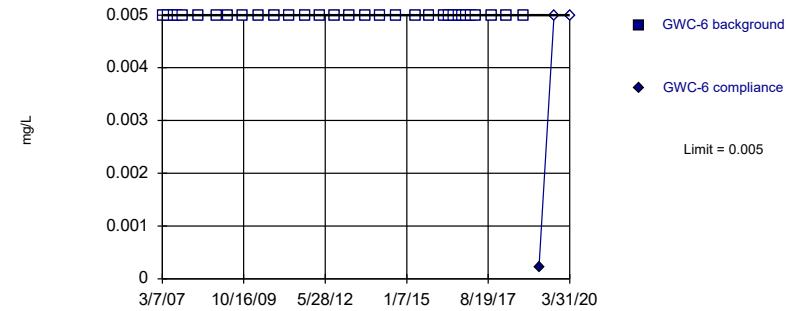


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

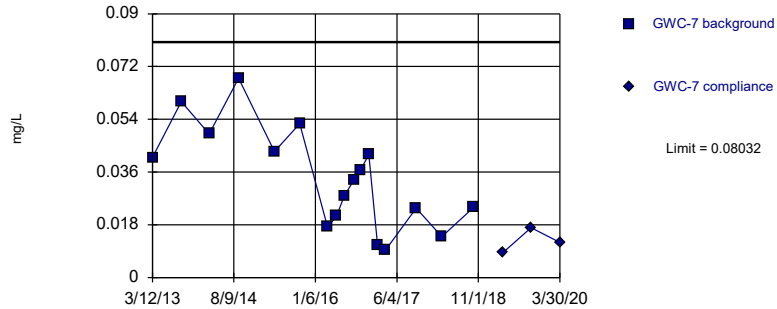


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

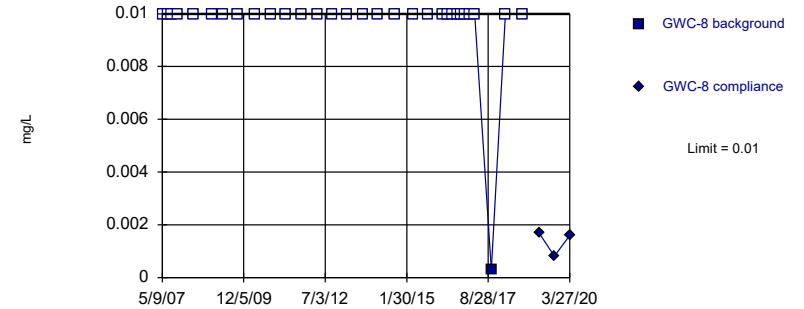


Background Data Summary: Mean=0.03376, Std. Dev.=0.01735, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.851. Kappa = 2.684 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

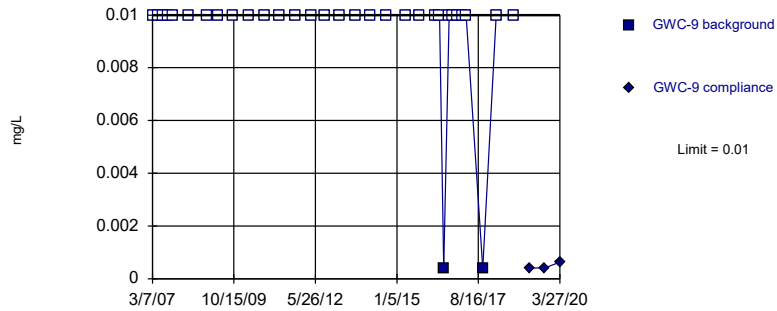


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

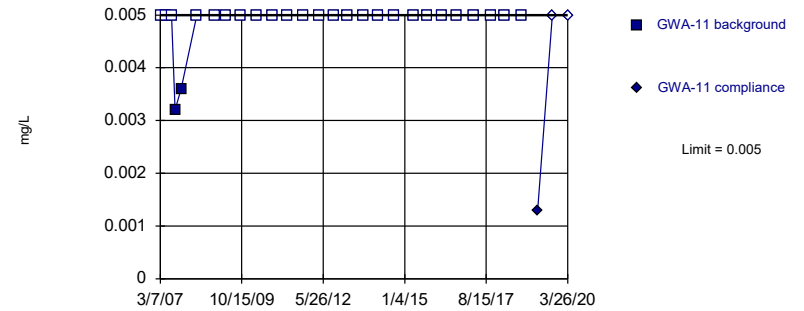


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

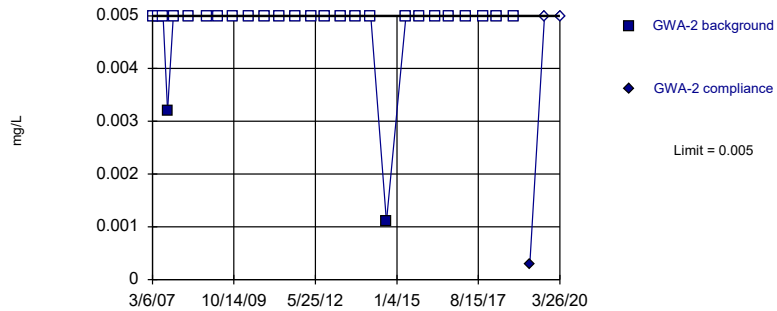


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

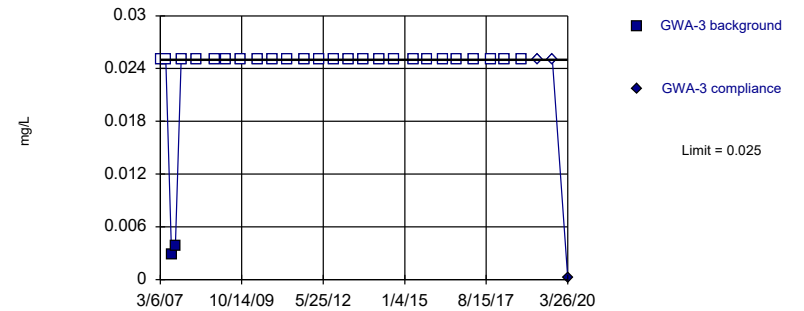


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:00 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

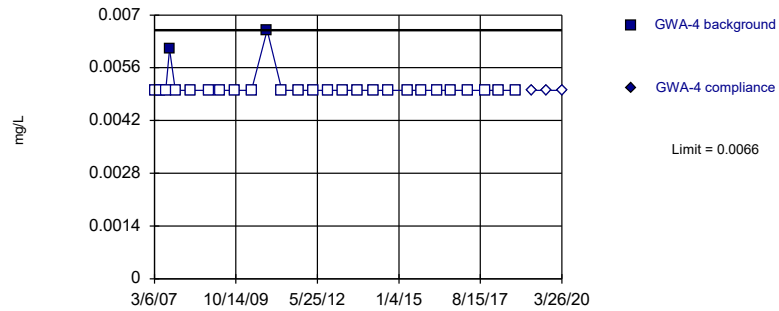


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

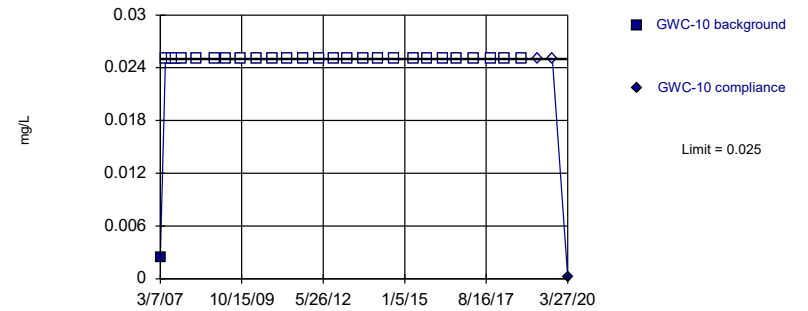


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

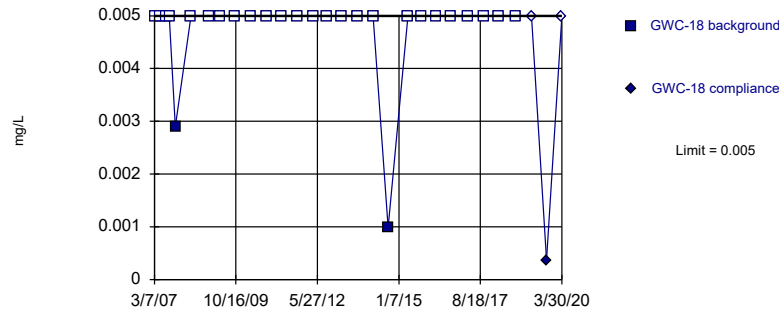


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

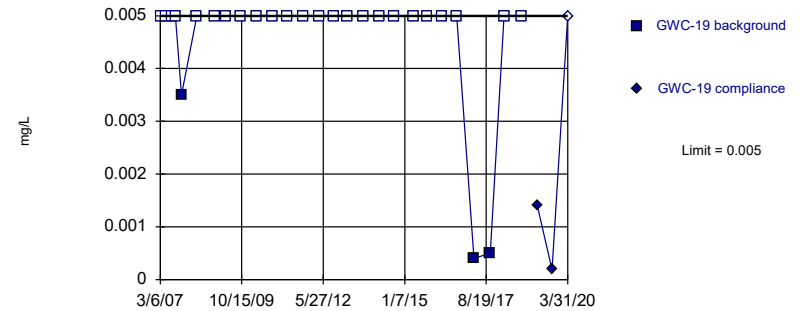


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

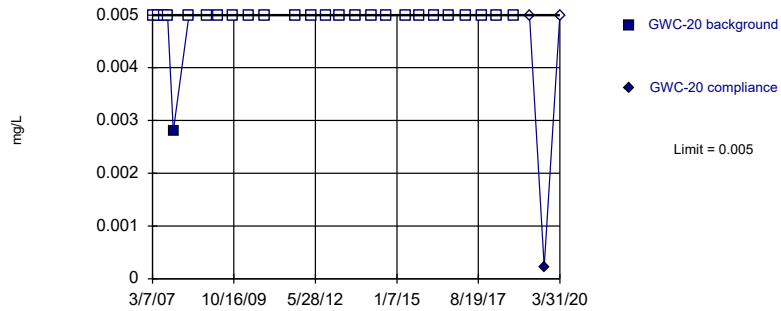


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

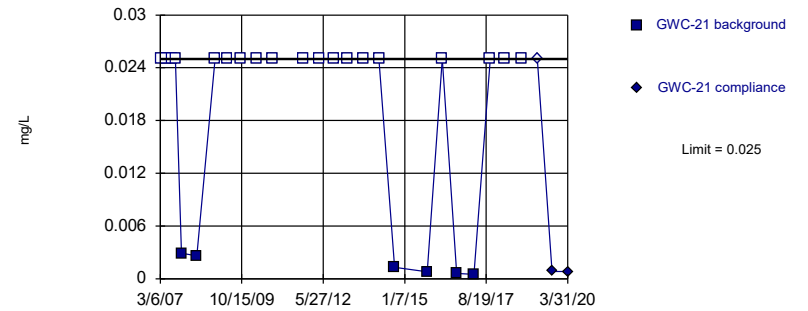


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

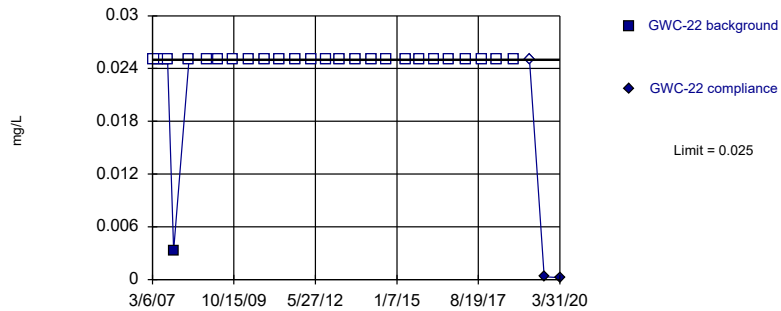


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 76% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

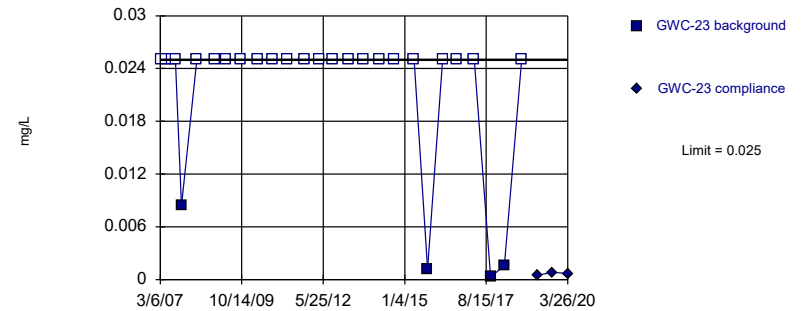


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

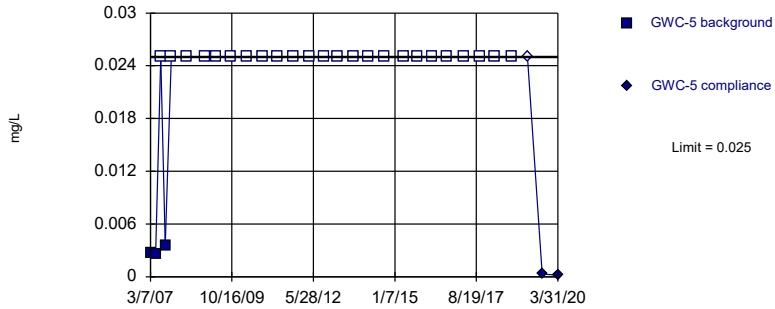


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

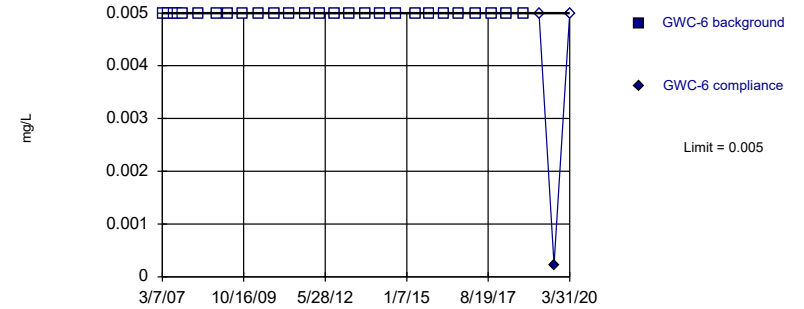


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

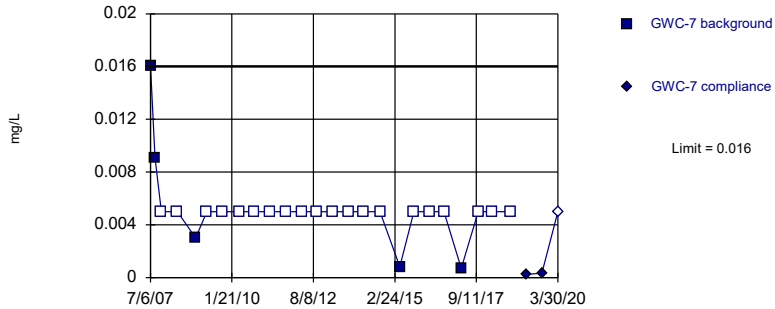


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

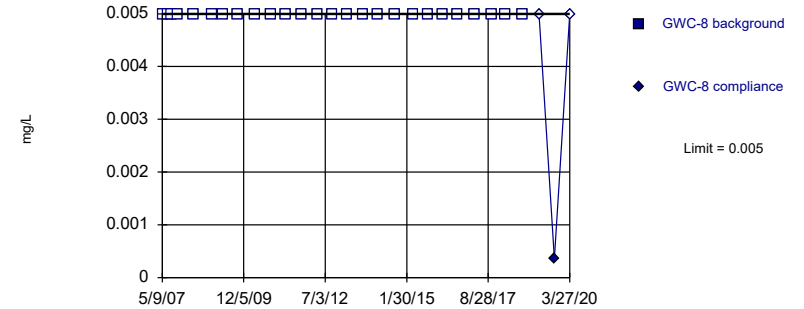


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 80% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

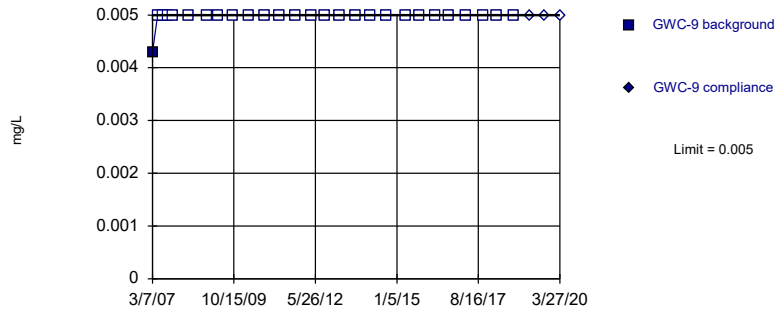


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

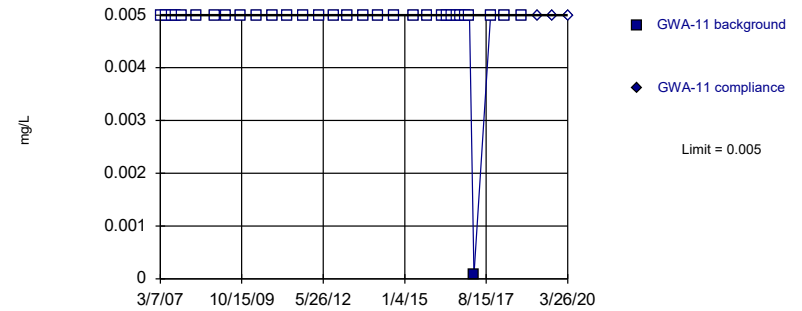


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

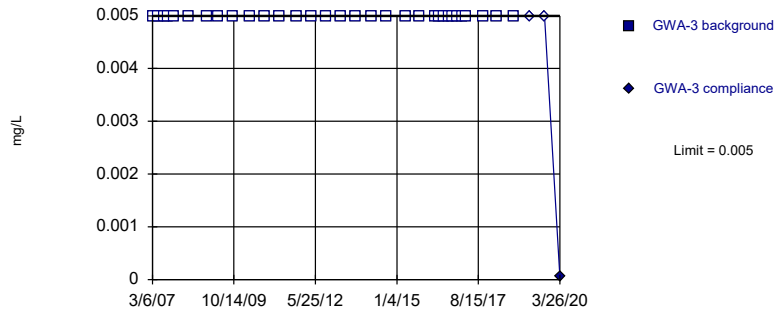


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

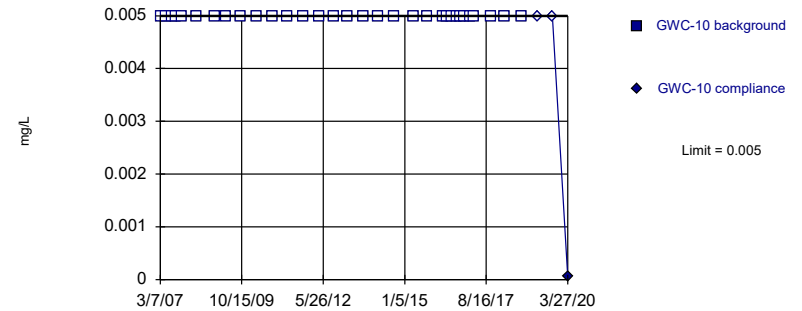


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

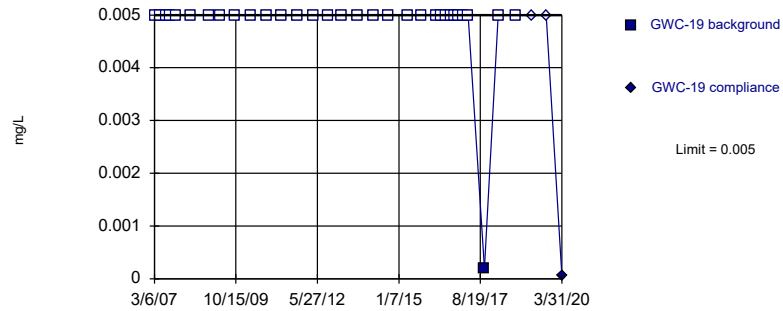


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

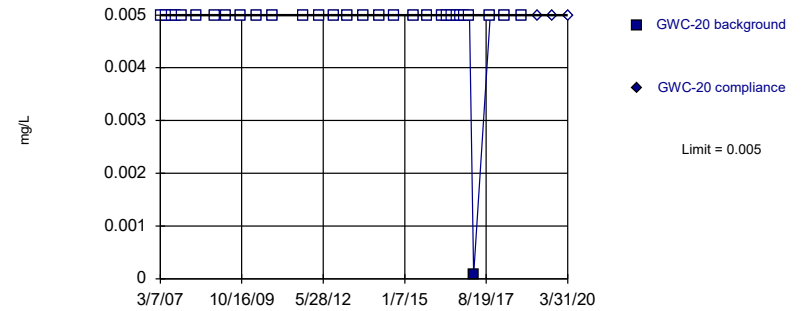


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

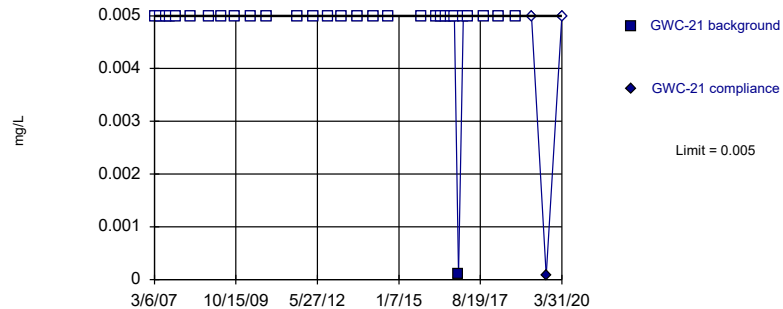


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

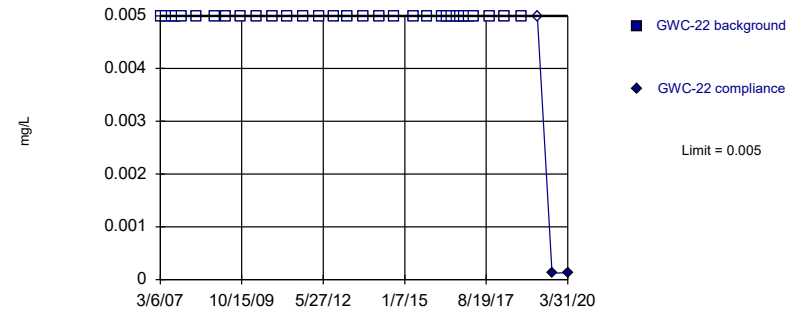


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

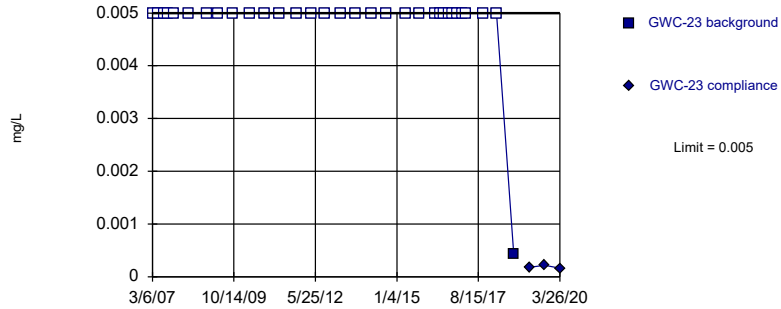


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

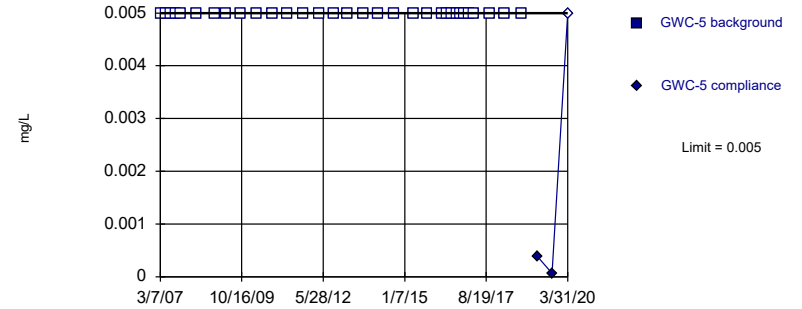


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

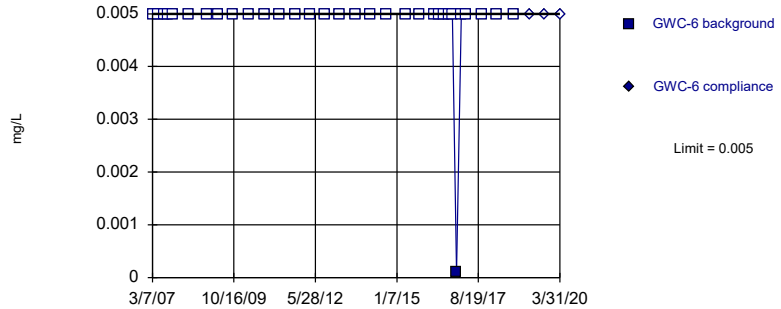


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

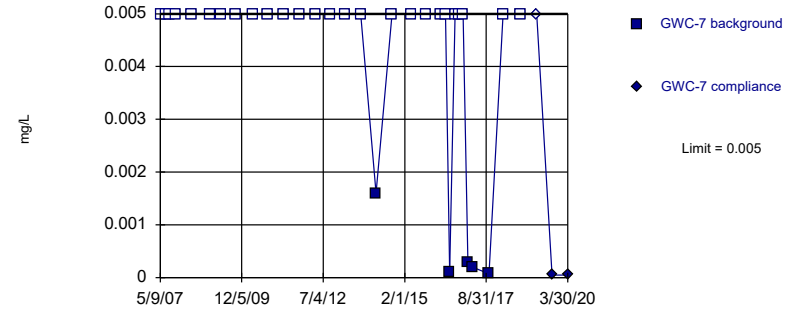


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



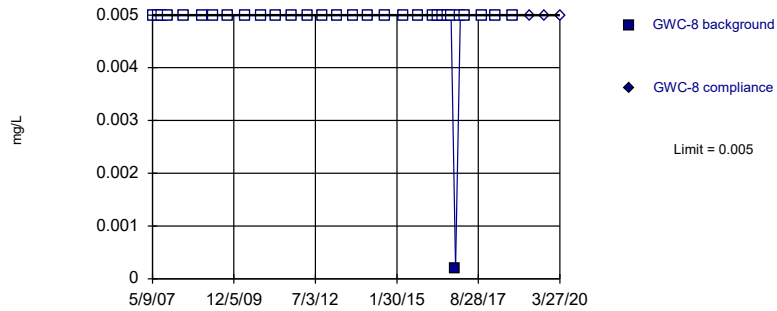
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



Within Limit

### Prediction Limit Intrawell Non-parametric

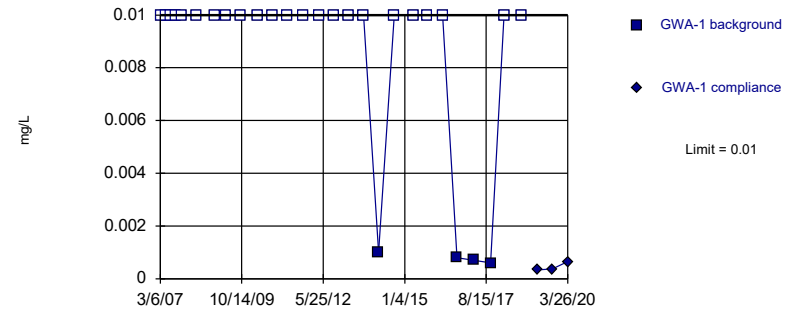


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Lead Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

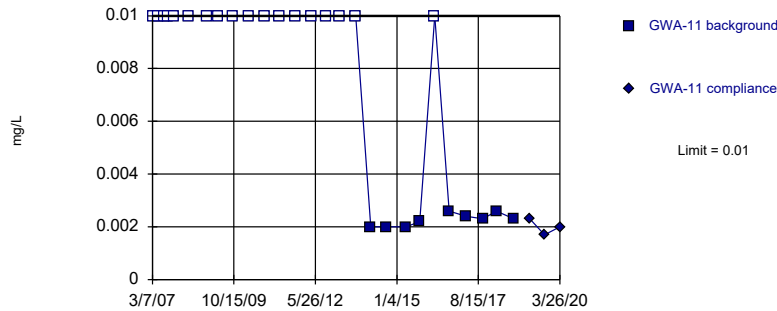


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

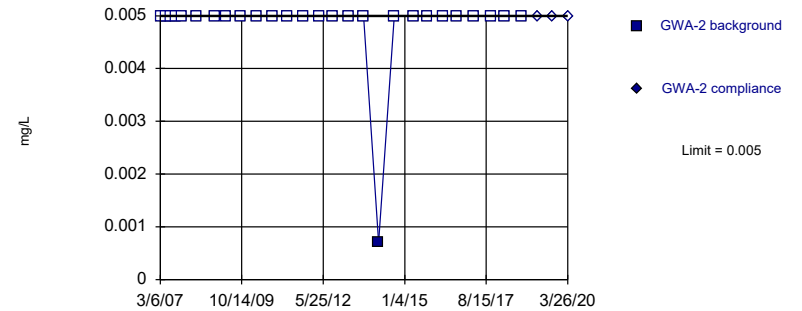


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

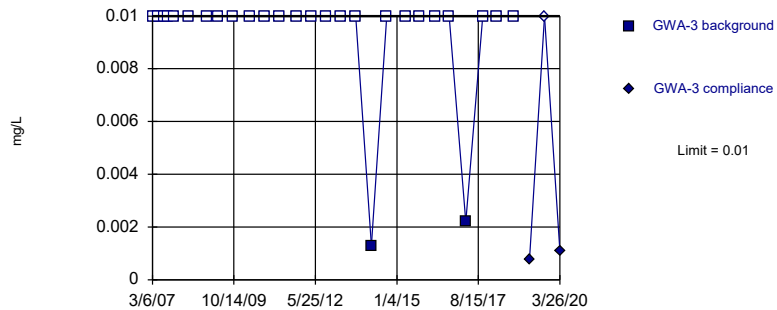


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

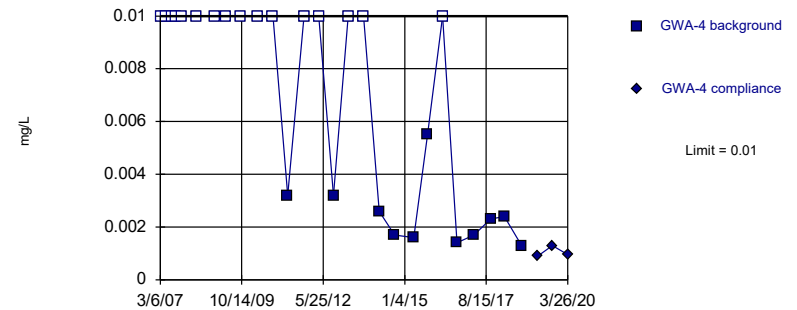


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

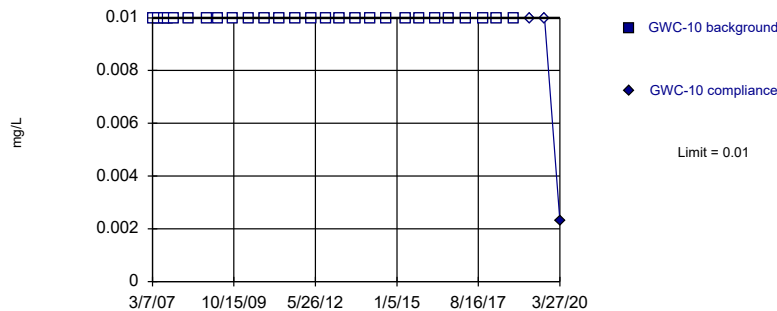


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 59.26% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

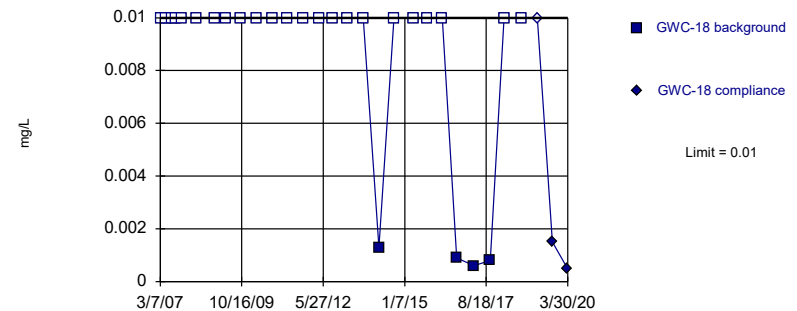


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

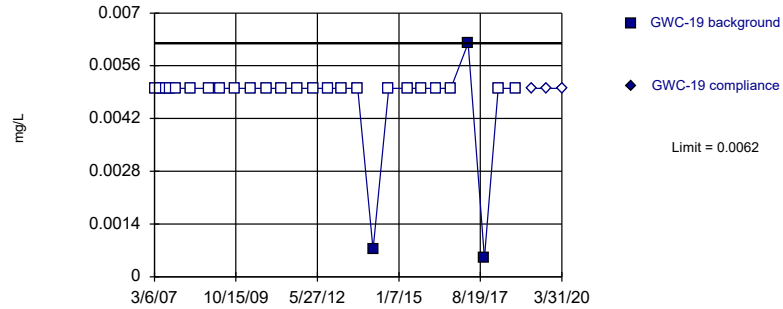


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

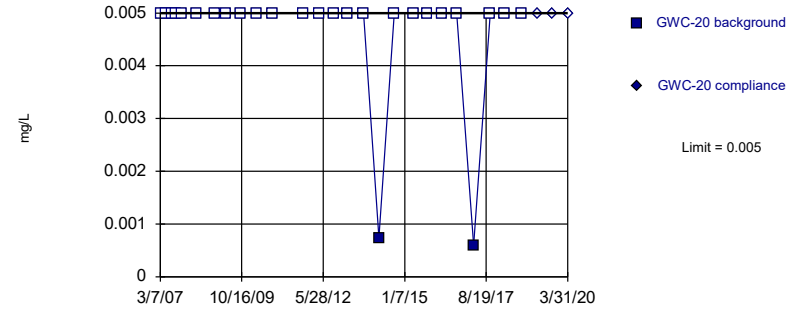


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

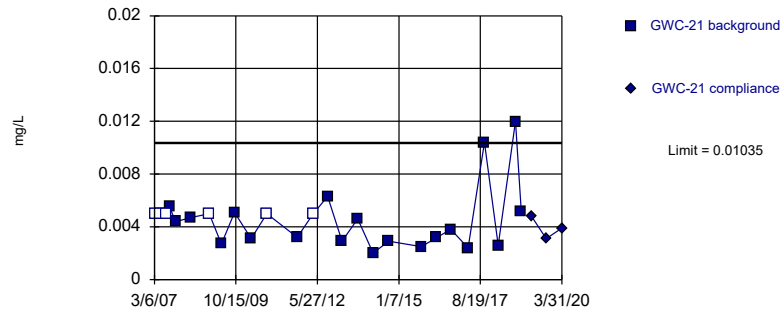


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

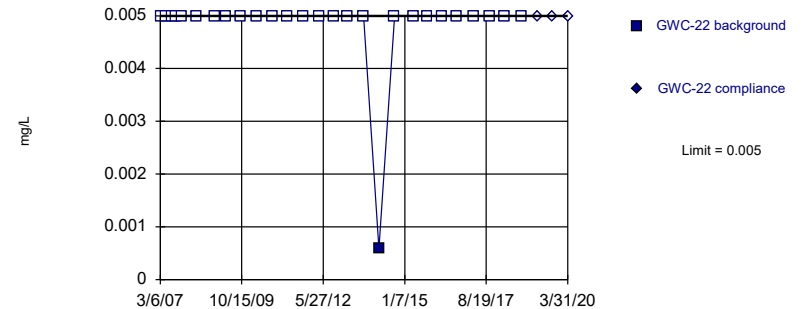


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1566, Std. Dev.=0.02496, n=26, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8923, critical = 0.891. Kappa = 2.456 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

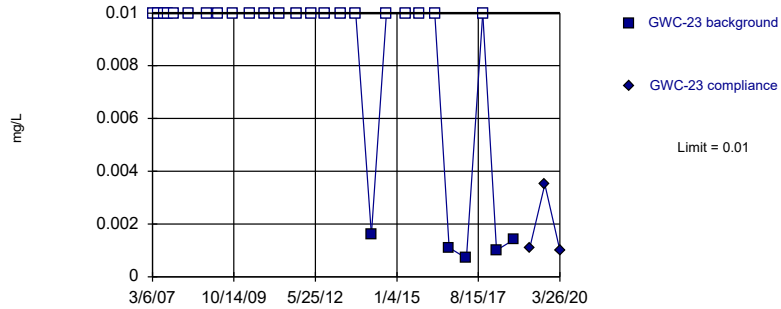


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

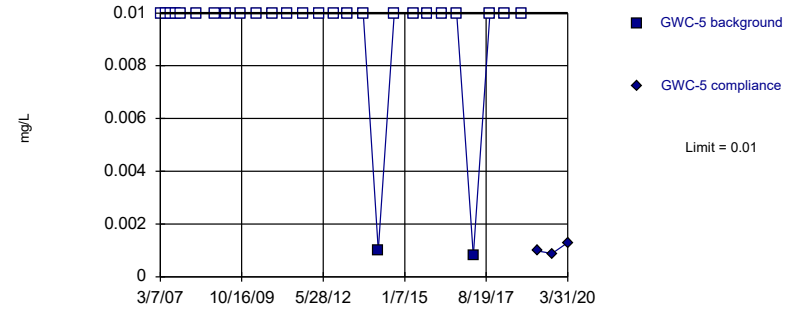


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

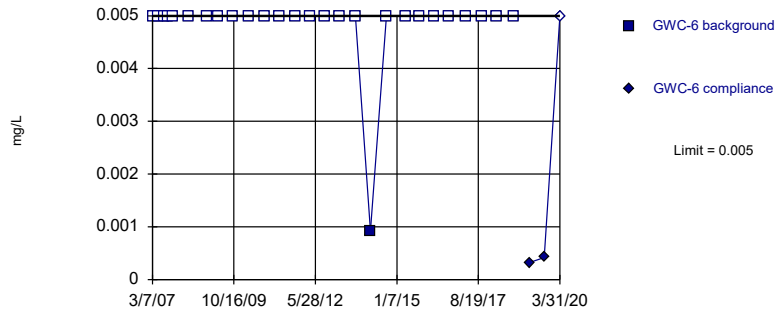


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

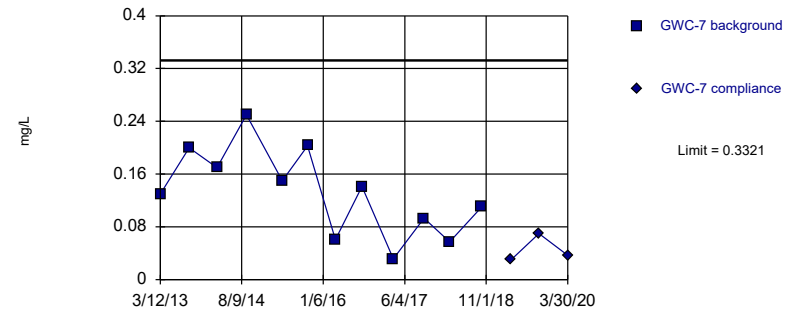


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

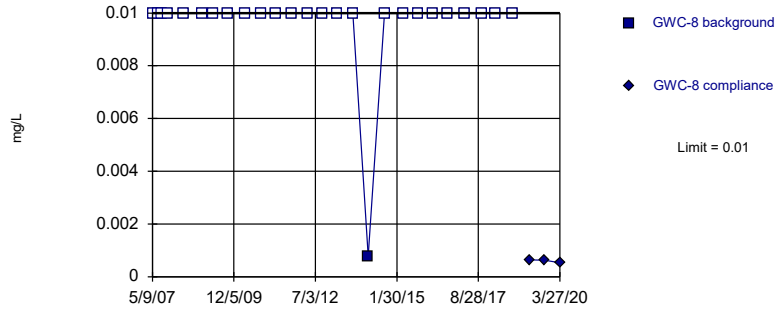


Background Data Summary: Mean=0.133, Std. Dev.=0.06625, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9771, critical = 0.805. Kappa = 3.005 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

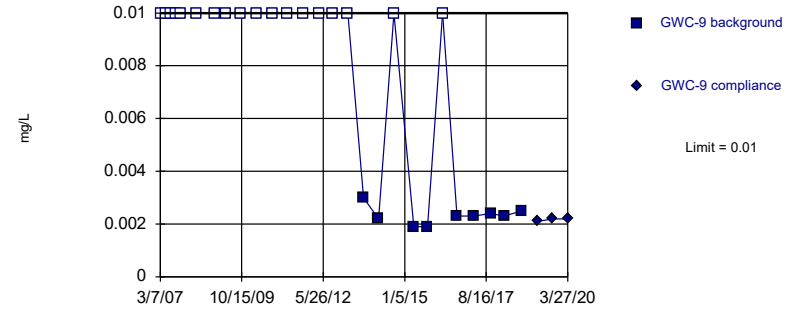


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

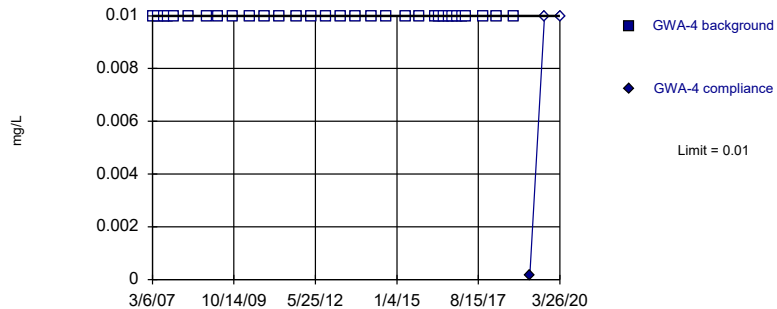


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

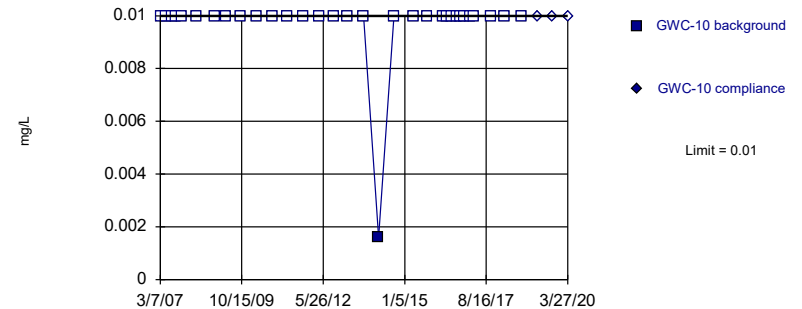


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

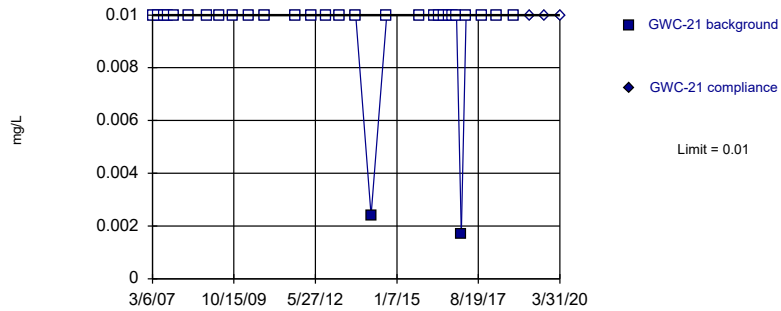


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

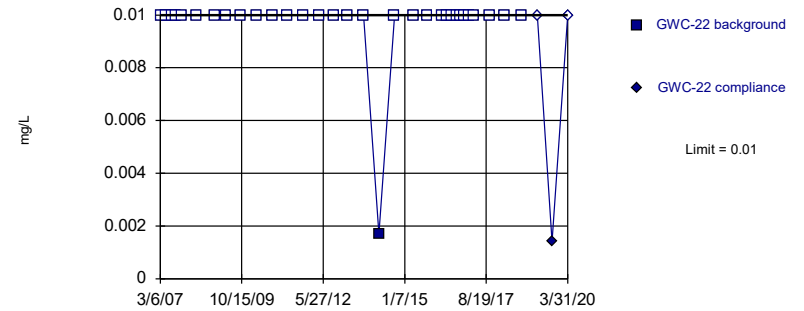


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Selenium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

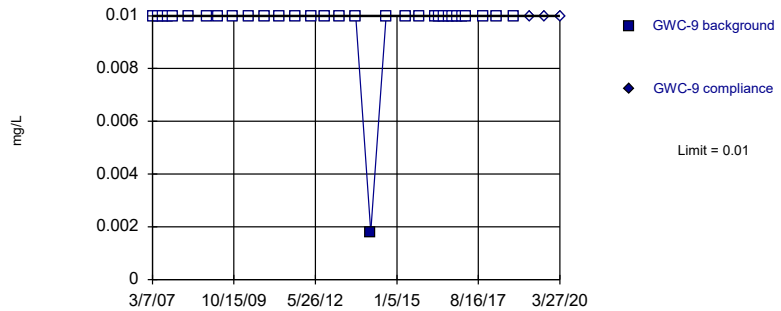


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

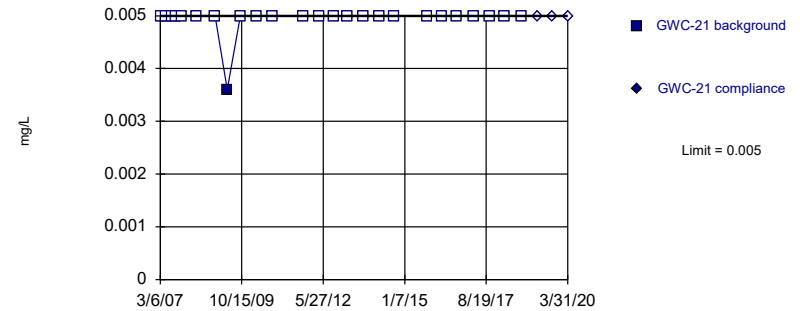


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

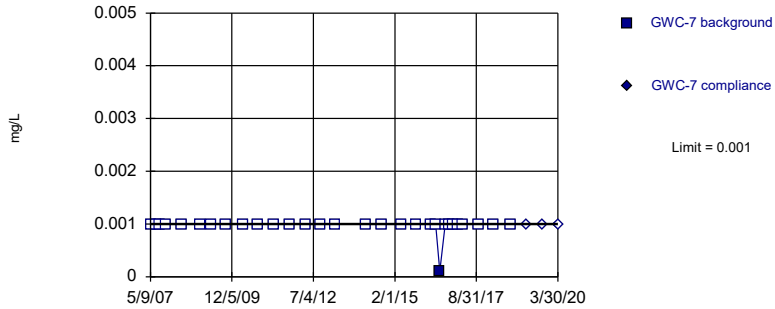


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Silver Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

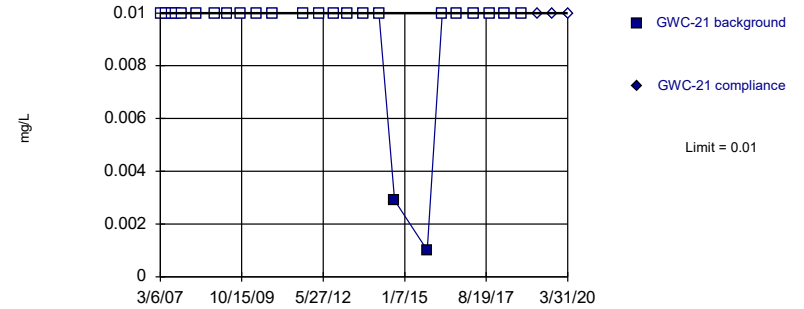


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Thallium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

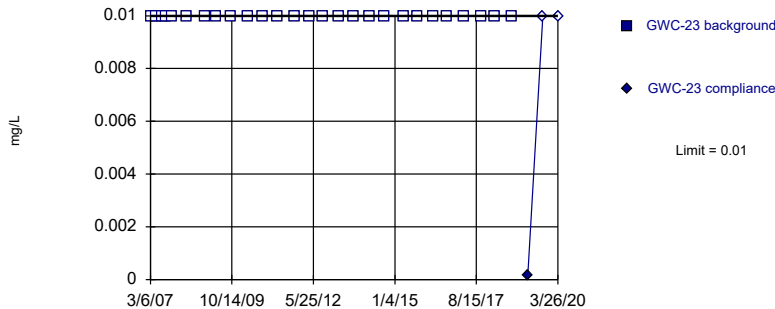


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Vanadium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

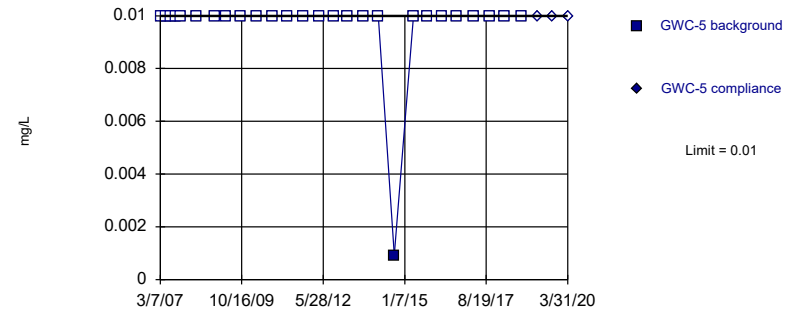


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

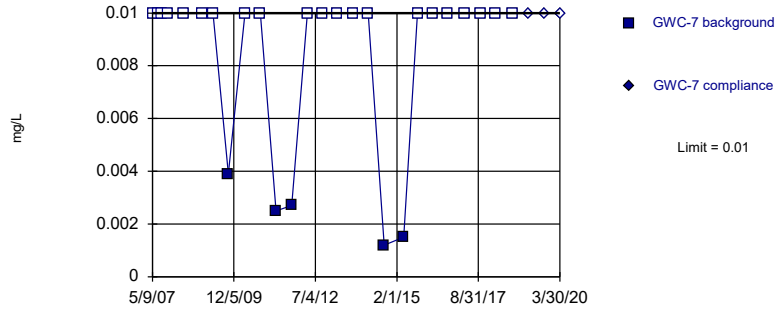


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

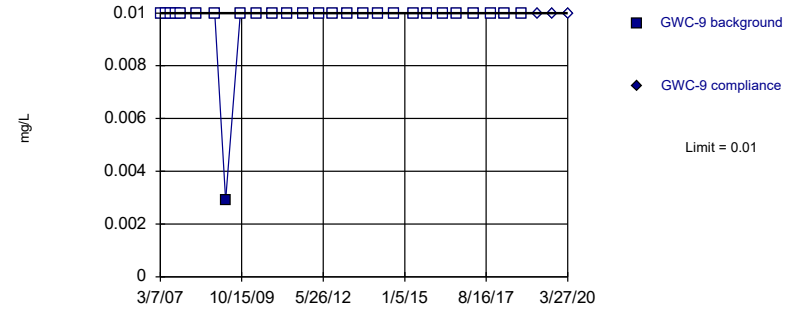


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Vanadium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

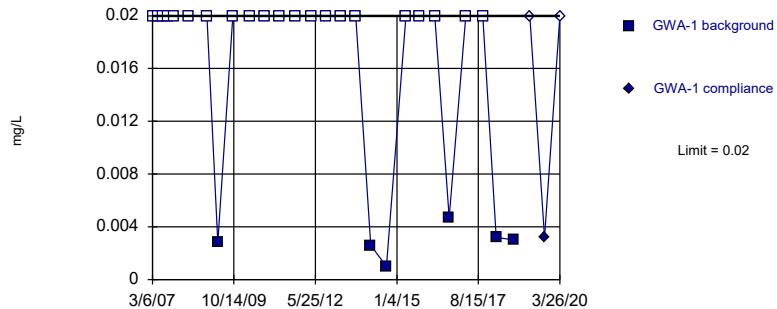


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

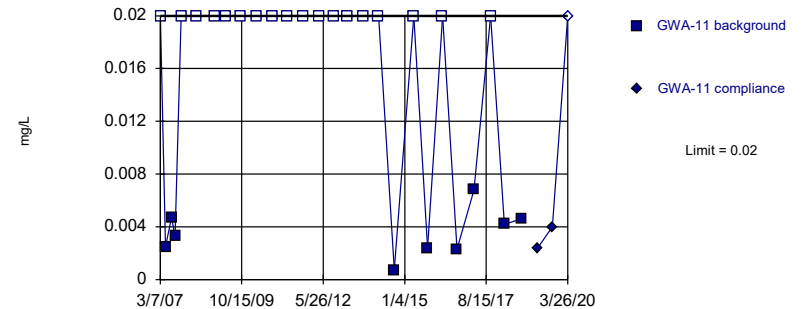


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



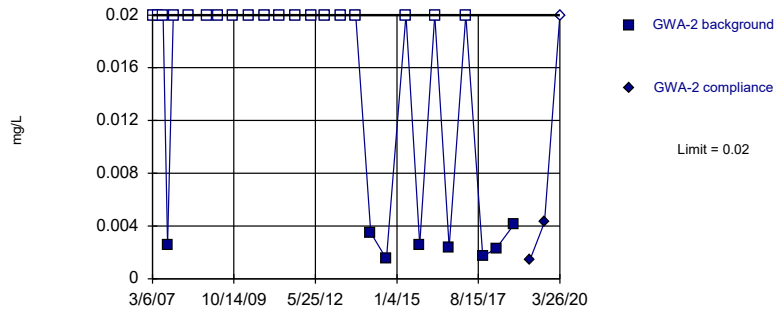
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric

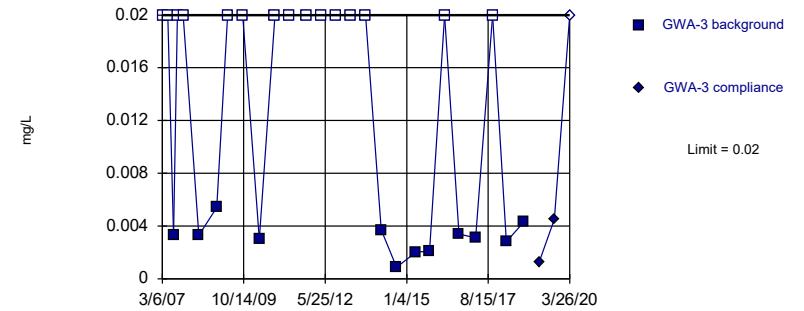


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

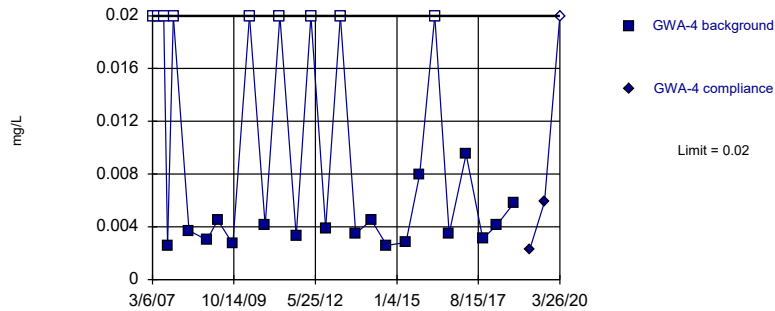


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

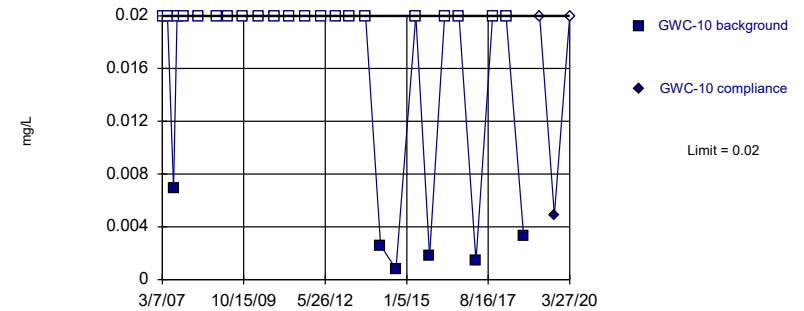


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

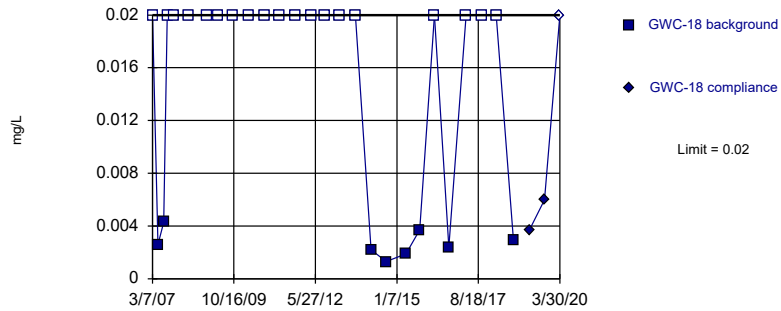


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

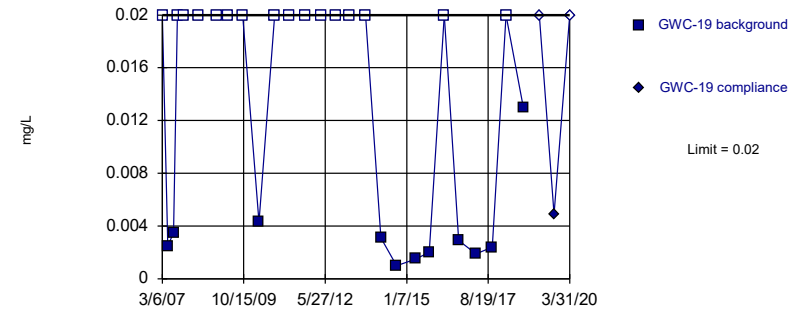


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

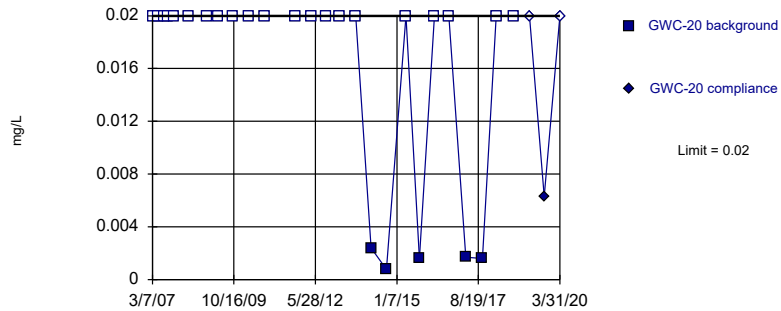


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 59.26% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

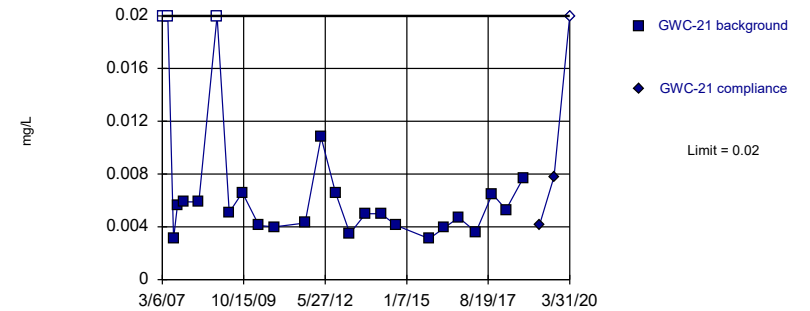


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

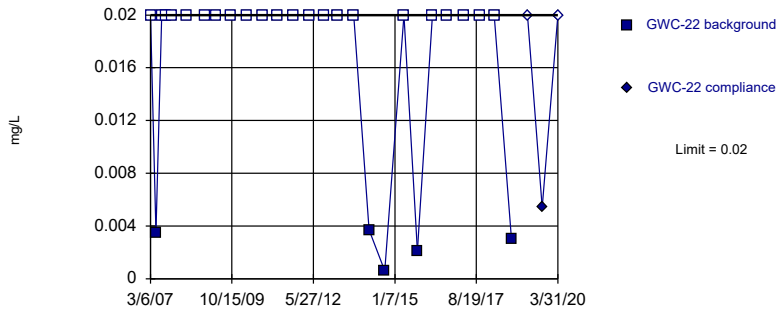


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 12% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

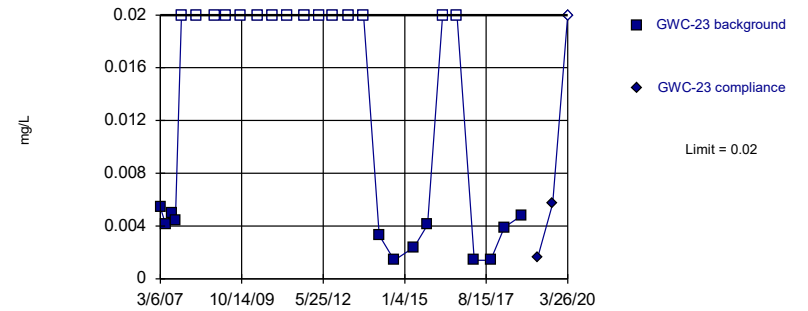


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

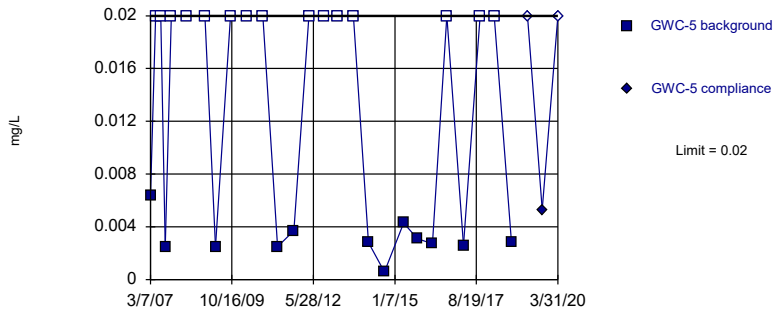


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

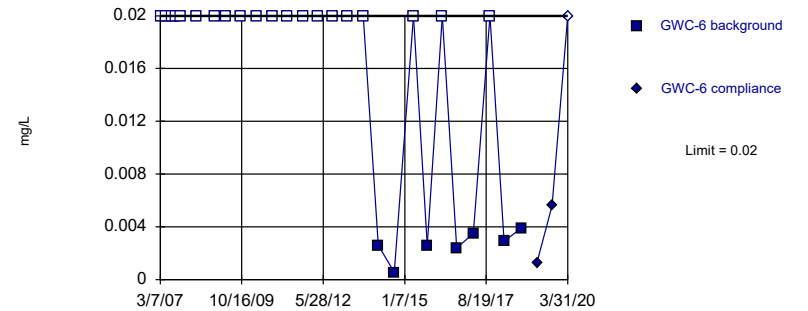


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

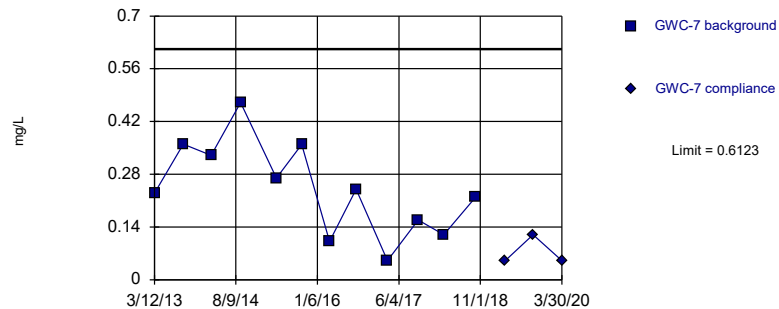


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Parametric

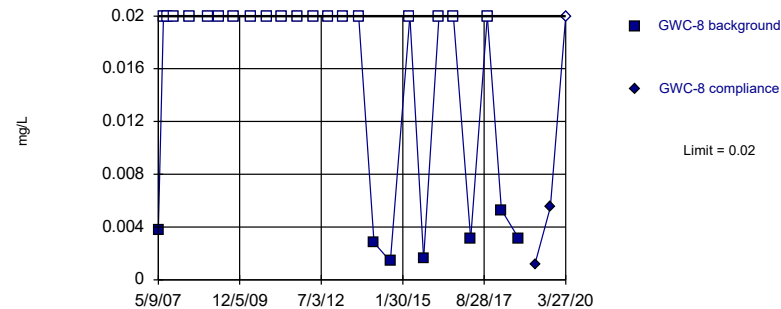


Background Data Summary: Mean=0.2426, Std. Dev.=0.123, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9762, critical = 0.805. Kappa = 3.005 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

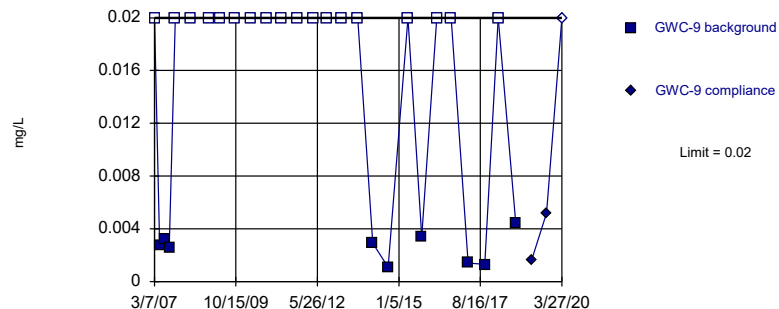


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 73.08% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 5/28/2020 4:01 PM View: State Parameters  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/6/2007	<0.003	
5/8/2007	<0.003	
7/7/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/9/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/13/2010	<0.003	
4/6/2011	<0.003	
10/10/2011	<0.003	
4/3/2012	<0.003	
9/24/2012	<0.003	
3/12/2013	<0.003	
9/11/2013	<0.003	
3/4/2014	<0.003	
9/3/2014	<0.003	
4/21/2015	<0.003	
9/30/2015	<0.003	
3/22/2016	<0.003	
5/17/2016	<0.003	
7/5/2016	<0.003	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/6/2016	<0.003	
1/31/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/14/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003
9/30/2019		<0.003
3/26/2020		0.00028 (J)

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	<0.003	
5/8/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/9/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/13/2010	<0.003	
4/6/2011	<0.003	
10/4/2011	<0.003	
4/10/2012	<0.003	
9/26/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/4/2014	<0.003	
9/3/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/22/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	0.0003 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/6/2016	<0.003	
2/1/2017	<0.003	
3/24/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003
9/30/2019		<0.003
3/26/2020		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/6/2007	<0.003	
5/8/2007	<0.003	
7/7/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/9/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/1/2009	<0.003	
10/7/2010	<0.003	
4/6/2011	<0.003	
10/6/2011	<0.003	
4/3/2012	<0.003	
9/19/2012	<0.003	
3/12/2013	<0.003	
9/9/2013	<0.003	
3/4/2014	<0.003	
9/3/2014	<0.003	
4/22/2015	<0.003	
9/30/2015	<0.003	
3/22/2016	<0.003	
5/17/2016	<0.003	
7/5/2016	<0.003	
9/7/2016	0.0021 (J)	
10/18/2016	<0.003	
12/7/2016	<0.003	
1/31/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/14/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003
9/30/2019		<0.003
3/26/2020		0.00049 (J)

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.003	
5/8/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/2/2009	<0.003	
4/14/2010	<0.003	
10/14/2010	<0.003	
4/5/2011	<0.003	
10/12/2011	<0.003	
4/4/2012	<0.003	
9/26/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/11/2014	<0.003	
9/8/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/22/2016	<0.003	
5/17/2016	<0.003	
7/5/2016	<0.003	
9/7/2016	0.0009 (J)	
10/18/2016	<0.003	
12/6/2016	<0.003	
2/1/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/5/2019		<0.003
9/30/2019		<0.003
3/26/2020		<0.003



# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.003	
5/8/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/2/2009	<0.003	
4/14/2010	<0.003	
10/14/2010	<0.003	
4/5/2011	<0.003	
10/12/2011	<0.003	
4/4/2012	<0.003	
9/24/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/11/2014	<0.003	
9/8/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/22/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	0.0003 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/6/2016	<0.003	
2/1/2017	<0.003	
3/24/2017	<0.003	
10/4/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003
9/30/2019		<0.003
3/26/2020		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.003	
5/8/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/9/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/13/2010	<0.003	
4/6/2011	<0.003	
10/4/2011	<0.003	
4/10/2012	<0.003	
9/26/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/4/2014	<0.003	
9/3/2014	<0.003	
4/21/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	0.0005 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/6/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003
10/1/2019		<0.003
3/27/2020		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/4/2008	<0.003	
4/14/2009	<0.003	
10/2/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
4/6/2011	<0.003	
10/12/2011	<0.003	
4/5/2012	<0.003	
9/25/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/10/2014	<0.003	
9/9/2014	<0.003	
4/22/2015	<0.003	
9/30/2015	<0.003	
3/24/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	0.0003 (J)	
9/8/2016	<0.003	
10/18/2016	<0.003	
12/7/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003
10/1/2019		<0.003
3/31/2020		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.003	
5/8/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/14/2010	<0.003	
4/5/2011	<0.003	
10/12/2011	<0.003	
4/4/2012	<0.003	
9/24/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/9/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	0.0004 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/1/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/16/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003
10/1/2019		<0.003
3/31/2020		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/1/2009	<0.003	
4/13/2010	<0.003	
10/6/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
9/18/2012	<0.003	
3/12/2013	<0.003	
9/9/2013	<0.003	
3/5/2014	<0.003	
9/8/2014	<0.003	
4/22/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	0.0005 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/1/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/16/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003
10/1/2019		<0.003
3/31/2020		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
10/1/2009	<0.003	
4/13/2010	<0.003	
10/7/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
9/18/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/8/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	0.0013 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/2/2017	<0.003	
3/24/2017	<0.003	
10/4/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003
10/1/2019		<0.003
3/30/2020		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	0.0064 (o)	
5/8/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/13/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
9/19/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/9/2014	<0.003	
4/22/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	0.0002 (J)	
9/8/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/2/2017	<0.003	
3/24/2017	<0.003	
10/5/2017	<0.003	
3/14/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003
10/1/2019		<0.003
3/27/2020		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.003	
5/8/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/13/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/4/2012	<0.003	
9/19/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/3/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/8/2016	0.0012 (J)	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/5/2018	<0.003	
4/8/2019		<0.003
10/1/2019		<0.003
3/27/2020		<0.003



# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/9/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/4/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/4/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/22/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	<0.005	
2/1/2017	<0.005	
3/24/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		0.00012 (J)
9/30/2019		<0.005
3/26/2020		<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/2/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	0.005	
9/8/2014	0.0034 (J)	
4/21/2015	<0.005	
9/29/2015	0.0025 (J)	
3/22/2016	<0.005	
5/17/2016	0.00129 (J)	
7/5/2016	0.001 (J)	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	0.0006 (J)	
10/4/2017	0.0011 (J)	
3/15/2018	0.00066 (J)	
10/4/2018	0.0008 (J)	
4/5/2019		0.00035 (J)
9/30/2019		0.00058 (J)
3/26/2020		0.00048 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/2/2009	0.0065	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/24/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	<0.005	
9/8/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/22/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	<0.005	
2/1/2017	<0.005	
3/24/2017	0.0006 (J)	
10/4/2017	<0.005	
3/15/2018	0.0014 (J)	
10/4/2018	<0.005	
4/8/2019		0.00023 (J)
9/30/2019		<0.005
3/26/2020		0.00044 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/3/2008	<0.005	
4/14/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/19/2012	<0.005	
3/13/2013	<0.005	
9/10/2013	<0.005	
3/10/2014	<0.005	
9/3/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	0.0005 (J)	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		0.00063 (J)
10/1/2019		<0.005
3/30/2020		0.00073 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/27/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/5/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	<0.005	
9/9/2014	<0.005	
9/30/2015	0.0023 (J)	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	0.0012 (J)	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	0.001 (J)	
3/15/2018	<0.005	
10/4/2018	0.0034 (J)	
4/9/2019		0.0018 (J)
10/1/2019		<0.005
3/31/2020		0.00035 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/19/2012	<0.005	
3/13/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	<0.005	
9/3/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/19/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/3/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/5/2018	<0.005	
4/8/2019		0.00034 (J)
10/1/2019		0.00082 (J)
3/26/2020		<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.005	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/24/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	0.0017 (J)	
9/9/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	0.0006 (J)	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/31/2020		<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.038 (o)	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/7/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	0.0053	
3/5/2014	0.0052	
9/8/2014	0.0058	
4/21/2015	0.0088	
9/29/2015	0.0086	
3/23/2016	0.00693	
5/18/2016	0.00451 (J)	
7/6/2016	0.0063	
9/7/2016	0.0065	
10/18/2016	0.0056	
12/8/2016	0.0065	
2/2/2017	0.002 (J)	
3/24/2017	0.0027 (J)	
10/4/2017	0.0056	
3/15/2018	0.0037 (J)	
10/4/2018	0.0049 (J)	
4/8/2019		0.0057
10/1/2019		0.01
11/6/2019		0.011
3/30/2020		0.0052



# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	0.0022 (J)	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	<0.005	
3/24/2017	0.0005 (J)	
10/5/2017	0.0008 (J)	
3/14/2018	0.00064 (J)	
10/4/2018	<0.005	
4/8/2019		0.0015 (J)
10/1/2019		0.0028 (J)
3/27/2020		0.002 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.005	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/4/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/5/2018	<0.005	
4/8/2019		<0.005
10/1/2019		0.00071 (J)
3/27/2020		<0.005

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/6/2007	0.032	
5/8/2007	0.04	
7/7/2007	0.041	
8/28/2007	0.044	
11/6/2007	0.044	
5/9/2008	0.03	
12/3/2008	0.047	
4/7/2009	0.032	
10/1/2009	0.043	
4/14/2010	0.032	
10/13/2010	0.046	
4/6/2011	0.034	
10/10/2011	0.038	
4/3/2012	0.0363	
9/24/2012	0.041	
3/12/2013	0.041	
9/11/2013	0.048	
3/4/2014	0.036	
9/3/2014	0.04	
4/21/2015	0.033	
9/30/2015	0.042	
3/22/2016	0.0326	
5/17/2016	0.0387	
7/5/2016	0.0403	
9/7/2016	0.0413	
10/18/2016	0.0409	
12/6/2016	0.0408	
1/31/2017	0.0435	
3/23/2017	0.038	
10/4/2017	0.0396	
3/14/2018	0.039	
10/4/2018	0.039	
4/8/2019		0.031
9/30/2019		0.042
3/26/2020		0.032

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	0.03	
5/8/2007	0.032	
7/17/2007	0.028	
8/28/2007	0.03	
11/7/2007	0.032	
5/9/2008	0.032	
12/2/2008	0.036	
4/8/2009	0.04	
10/1/2009	0.039	
4/14/2010	0.041	
10/13/2010	0.039	
4/6/2011	0.034	
10/4/2011	0.032	
4/10/2012	0.0425	
9/26/2012	0.035	
3/12/2013	0.035	
9/10/2013	0.035	
3/4/2014	0.031	
9/3/2014	0.033	
4/21/2015	0.03	
9/29/2015	0.031	
3/22/2016	0.0327	
5/17/2016	0.0323	
7/6/2016	0.0344	
9/7/2016	0.0324	
10/18/2016	0.0311	
12/6/2016	0.0311	
2/1/2017	0.0332	
3/24/2017	0.032	
10/5/2017	0.0325	
3/15/2018	0.031	
10/4/2018	0.033	
4/8/2019		0.031
9/30/2019		0.03
3/26/2020		0.031

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/6/2007	0.12	
5/8/2007	0.11	
7/7/2007	0.11	
8/28/2007	0.13	
11/6/2007	0.12	
5/9/2008	0.12	
12/3/2008	0.12	
4/7/2009	0.13	
10/1/2009	0.14	
4/13/2010	0.15	
10/7/2010	0.16	
4/6/2011	0.14	
10/6/2011	0.16	
4/3/2012	0.165	
9/19/2012	0.16	
3/12/2013	0.16	
9/9/2013	0.17	
3/4/2014	0.16	
9/3/2014	0.17	
4/22/2015	0.17	
9/30/2015	0.15	
3/22/2016	0.197	
5/17/2016	0.178	
7/5/2016	0.182	
9/7/2016	0.172	
10/18/2016	0.174	
12/7/2016	0.167	
1/31/2017	0.176	
3/23/2017	0.157	
10/4/2017	0.143	
3/14/2018	0.17	
10/4/2018	0.18	
4/8/2019		0.15
9/30/2019		0.17
3/26/2020		0.16

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	0.17	
5/8/2007	0.21	
7/17/2007	0.21	
8/28/2007	0.2	
11/6/2007	0.19	
5/8/2008	0.2	
12/3/2008	0.18	
4/7/2009	0.2	
10/2/2009	0.2	
4/14/2010	0.2	
10/14/2010	0.18	
4/5/2011	0.16	
10/12/2011	0.15	
4/4/2012	0.165	
9/26/2012	0.17	
3/12/2013	0.17	
9/10/2013	0.18	
3/11/2014	0.17	
9/8/2014	0.16	
4/21/2015	0.16	
9/29/2015	0.14	
3/22/2016	0.188	
5/17/2016	0.193	
7/5/2016	0.172	
9/7/2016	0.164	
10/18/2016	0.138	
12/6/2016	0.149	
2/1/2017	0.121	
3/23/2017	0.143	
10/4/2017	0.139	
3/15/2018	0.17	
10/4/2018	0.16	
4/5/2019		0.13
9/30/2019		0.14
3/26/2020		0.14

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	0.13	
5/8/2007	0.12	
7/17/2007	0.12	
8/28/2007	0.13	
11/6/2007	0.12	
5/8/2008	0.13	
12/3/2008	0.14	
4/7/2009	0.097	
10/2/2009	0.11	
4/14/2010	0.059	
10/14/2010	0.053	
4/5/2011	0.042	
10/12/2011	0.048	
4/4/2012	0.044	
9/24/2012	0.048	
3/12/2013	0.043	
9/10/2013	0.042	
3/11/2014	0.04	
9/8/2014	0.042	
4/21/2015	0.05	
9/29/2015	0.044	
3/22/2016	0.0397	
5/17/2016	0.0351	
7/6/2016	0.0475	
9/7/2016	0.0415	
10/18/2016	0.0424	
12/6/2016	0.0528	
2/1/2017	0.0482	
3/24/2017	0.0595	
10/4/2017	0.0486	
3/15/2018	0.04	
10/4/2018	0.05	
4/8/2019		0.047
9/30/2019		0.051
3/26/2020		0.049

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	0.15	
5/8/2007	0.14	
7/17/2007	0.1	
8/28/2007	0.1	
11/7/2007	0.11	
5/9/2008	0.15	
12/2/2008	0.11	
4/8/2009	0.16	
10/1/2009	0.11	
4/14/2010	0.15	
10/13/2010	0.1	
4/6/2011	0.13	
10/4/2011	0.089	
4/10/2012	0.126	
9/26/2012	0.093	
3/12/2013	0.13	
9/10/2013	0.14	
3/4/2014	0.11	
9/3/2014	0.1	
4/21/2015	0.14	
9/30/2015	0.096	
3/23/2016	0.132	
5/17/2016	0.122	
7/6/2016	0.101	
9/7/2016	0.0985	
10/18/2016	0.104	
12/6/2016	0.1	
2/2/2017	0.147	
3/27/2017	0.158	
10/5/2017	0.106	
3/15/2018	0.18	
5/15/2018	0.16	
10/4/2018	0.2	
12/11/2018	0.18	
1/11/2019		0.17
4/9/2019		0.17
10/1/2019		0.12
3/27/2020		0.037



# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	0.072	
5/9/2007	0.063	
7/17/2007	0.058	
8/28/2007	0.06	
11/7/2007	0.072	
5/7/2008	0.076	
12/3/2008	0.066	
4/14/2009	0.08	
10/1/2009	0.074	
4/13/2010	0.062	
10/12/2010	0.078	
4/6/2011	0.066	
10/12/2011	0.071	
4/5/2012	0.0675	
9/19/2012	0.073	
3/13/2013	0.075	
9/10/2013	0.081	
3/10/2014	0.064	
9/3/2014	0.078	
4/22/2015	0.067	
9/30/2015	0.075	
3/24/2016	0.0818	
5/18/2016	0.0763	
7/7/2016	0.0747	
9/8/2016	0.081	
10/19/2016	0.084	
12/8/2016	0.0799	
2/2/2017	0.0813	
3/27/2017	0.0714	
10/5/2017	0.0755	
3/16/2018	0.074	
10/5/2018	0.081	
4/9/2019		0.081
10/1/2019		0.082
3/30/2020		0.077

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	0.088	
5/9/2007	0.07	
7/17/2007	0.063	
8/28/2007	0.066	
11/7/2007	0.07	
5/7/2008	0.071	
12/4/2008	0.068	
4/14/2009	0.076	
10/2/2009	0.07	
4/13/2010	0.085	
10/12/2010	0.075	
4/6/2011	0.077	
10/12/2011	0.12	
4/5/2012	0.143	
9/25/2012	0.13	
3/13/2013	0.14	
9/11/2013	0.15	
3/10/2014	0.13	
9/9/2014	0.16	
4/22/2015	0.15	
9/30/2015	0.15	
3/24/2016	0.152	
5/18/2016	0.146	
7/6/2016	0.152	
9/8/2016	0.142	
10/18/2016	0.145	
12/7/2016	0.133	
2/2/2017	0.14	
3/27/2017	0.152	
10/5/2017	0.142	
3/15/2018	0.14	
10/4/2018	0.16	
4/9/2019		0.15
10/1/2019		0.15
3/31/2020		0.17

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	0.11	
5/9/2007	0.082	
7/17/2007	0.078	
8/29/2007	0.096	
11/7/2007	0.1	
5/7/2008	0.11	
12/5/2008	0.11	
4/14/2009	0.11	
9/30/2009	0.12	
4/13/2010	0.11	
10/12/2010	0.12	
10/12/2011	0.11	
4/9/2012	0.13	
9/25/2012	0.13	
3/13/2013	0.12	
9/11/2013	0.12	
3/10/2014	0.11	
9/9/2014	0.11	
4/23/2015	0.11	
9/30/2015	0.11	
3/23/2016	0.115	
5/18/2016	0.128	
7/7/2016	0.124	
9/8/2016	0.121	
10/19/2016	0.117	
12/7/2016	0.11	
2/3/2017	0.123	
3/27/2017	0.112	
10/5/2017	0.128	
3/16/2018	0.12	
10/5/2018	0.12	
4/9/2019		0.13
10/1/2019		0.14
3/31/2020		0.15

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	0.038	
5/9/2007	0.046	
7/17/2007	0.06	
8/29/2007	0.07	
11/7/2007	0.055	
5/7/2008	0.032	
12/5/2008	0.06	
4/27/2009	0.032	
9/30/2009	0.046	
4/13/2010	0.035	
10/12/2010	0.15	
10/5/2011	0.055	
4/10/2012	0.0399	
9/26/2012	0.093	
3/13/2013	0.066	
9/11/2013	0.053	
3/11/2014	0.039	
9/9/2014	0.14	
9/30/2015	0.15	
3/24/2016	0.046	
5/18/2016	0.0557	
7/7/2016	0.0596	
9/8/2016	0.184	
10/19/2016	0.186	
12/7/2016	0.174	
2/2/2017	0.0783	
3/27/2017	0.0363	
10/5/2017	0.0562	
3/15/2018	0.086	
10/4/2018	0.079	
4/9/2019		0.05
10/1/2019		0.18
3/31/2020		0.044

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	0.023	
5/9/2007	0.034	
7/17/2007	0.034	
8/29/2007	0.048	
11/7/2007	0.042	
5/7/2008	0.078	
12/5/2008	0.067	
4/14/2009	0.083	
9/30/2009	0.086	
4/13/2010	0.087	
10/12/2010	0.082	
4/6/2011	0.082	
10/5/2011	0.082	
4/9/2012	0.0959	
9/25/2012	0.09	
3/13/2013	0.092	
9/11/2013	0.096	
3/11/2014	0.085	
9/9/2014	0.096	
4/23/2015	0.093	
9/30/2015	0.096	
3/23/2016	0.0938	
5/18/2016	0.0983	
7/7/2016	0.121	
9/8/2016	0.0917	
10/19/2016	0.091	
12/7/2016	0.0868	
2/2/2017	0.0939	
3/27/2017	0.0905	
10/5/2017	0.0945	
3/15/2018	0.096	
10/4/2018	0.1	
4/9/2019		0.094
10/1/2019		0.1
3/31/2020		0.1

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	0.05	
5/9/2007	0.055	
7/17/2007	0.048	
8/29/2007	0.056	
11/7/2007	0.07	
5/7/2008	0.063	
12/5/2008	0.068	
4/14/2009	0.062	
10/1/2009	0.064	
4/14/2010	0.048	
10/13/2010	0.071	
4/6/2011	0.042	
10/12/2011	0.066	
4/9/2012	0.0628	
9/19/2012	0.073	
3/13/2013	0.057	
9/10/2013	0.066	
3/11/2014	0.054	
9/3/2014	0.06	
4/23/2015	0.06	
9/30/2015	0.076	
3/23/2016	0.0533	
5/19/2016	0.074	
7/7/2016	0.0766	
9/8/2016	0.0726	
10/19/2016	0.072	
12/7/2016	0.0732	
2/3/2017	0.0619	
3/27/2017	0.0602	
10/5/2017	0.0734	
3/15/2018	0.053	
10/5/2018	0.065	
4/8/2019		0.059
10/1/2019		0.082
3/26/2020		0.071

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	0.1	
5/8/2007	0.11	
7/6/2007	0.11	
8/28/2007	0.1	
11/6/2007	0.1	
5/8/2008	0.11	
12/3/2008	0.091	
4/7/2009	0.094	
10/1/2009	0.097	
4/14/2010	0.096	
10/14/2010	0.1	
4/5/2011	0.092	
10/12/2011	0.12	
4/4/2012	0.105	
9/24/2012	0.13	
3/12/2013	0.1	
9/10/2013	0.13	
3/5/2014	0.084	
9/9/2014	0.11	
4/21/2015	0.11	
9/29/2015	0.097	
3/23/2016	0.0993	
5/17/2016	0.104	
7/6/2016	0.104	
9/7/2016	0.0945	
10/18/2016	0.0928	
12/8/2016	0.1	
2/1/2017	0.0972	
3/23/2017	0.105	
10/4/2017	0.102	
3/16/2018	0.091	
10/4/2018	0.084	
4/9/2019		0.067
10/1/2019		0.09
3/31/2020		0.064

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	0.057	
5/9/2007	0.054	
7/17/2007	0.059	
8/28/2007	0.061	
11/6/2007	0.074	
5/8/2008	0.079	
12/3/2008	0.1	
4/7/2009	0.091	
10/1/2009	0.092	
4/13/2010	0.095	
10/6/2010	0.11	
4/5/2011	0.1	
10/4/2011	0.11	
4/3/2012	0.116	
9/18/2012	0.12	
3/12/2013	0.11	
9/9/2013	0.13	
3/5/2014	0.12	
9/8/2014	0.13	
4/22/2015	0.14	
9/29/2015	0.14	
3/23/2016	0.156	
5/17/2016	0.168	
7/6/2016	0.171	
9/7/2016	0.154	
10/18/2016	0.159	
12/8/2016	0.156	
2/1/2017	0.163	
3/23/2017	0.161	
10/4/2017	0.171	
3/16/2018	0.17	
10/4/2018	0.19	
4/8/2019		0.15
10/1/2019		0.18
3/31/2020		0.18



# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.011	
7/6/2007	0.0065	
8/28/2007	0.0095	
11/6/2007	0.013	
5/8/2008	0.011	
12/2/2008	0.011	
4/8/2009	0.0091	
10/1/2009	0.0098	
4/13/2010	0.0084	
10/7/2010	0.01	
4/5/2011	0.015	
10/4/2011	0.01	
4/3/2012	0.0426	
9/18/2012	0.02	
3/12/2013	0.35	
9/10/2013	0.11	
3/5/2014	0.054	
9/8/2014	0.044	
4/21/2015	0.065	
9/29/2015	0.036	
3/23/2016	0.263	
5/18/2016	0.245	
7/6/2016	0.117	
9/7/2016	0.0703	
10/18/2016	0.068	
12/8/2016	0.0791	
2/2/2017	0.17	
3/24/2017	0.181	
10/4/2017	0.0937	
3/15/2018	0.15	
10/4/2018	0.08	
4/8/2019		0.24
10/1/2019		0.085
3/30/2020		0.21

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	0.13	
7/6/2007	0.12	
8/28/2007	0.11	
11/6/2007	0.1	
5/8/2008	0.1	
12/2/2008	0.11	
4/8/2009	0.1	
9/30/2009	0.099	
4/13/2010	0.098	
10/13/2010	0.092	
4/5/2011	0.085	
10/4/2011	0.091	
4/3/2012	0.101	
9/19/2012	0.1	
3/12/2013	0.098	
9/10/2013	0.11	
3/5/2014	0.087	
9/9/2014	0.1	
4/22/2015	0.095	
9/29/2015	0.093	
3/23/2016	0.0918	
5/18/2016	0.0957	
7/6/2016	0.0935	
9/8/2016	0.0925	
10/18/2016	0.0939	
12/8/2016	0.0996	
2/2/2017	0.096	
3/24/2017	0.106	
10/5/2017	0.103	
3/14/2018	0.1	
10/4/2018	0.11	
4/8/2019		0.13
6/18/2019		0.17
10/1/2019		0.12
3/27/2020		0.14

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	0.059	
5/8/2007	0.055	
7/6/2007	0.052	
8/28/2007	0.047	
11/6/2007	0.048	
5/8/2008	0.052	
12/2/2008	0.056	
4/8/2009	0.057	
9/30/2009	0.055	
4/13/2010	0.053	
10/13/2010	0.054	
4/5/2011	0.035	
10/4/2011	0.058	
4/4/2012	0.0632	
9/19/2012	0.061	
3/12/2013	0.056	
9/10/2013	0.067	
3/5/2014	0.055	
9/3/2014	0.051	
4/21/2015	0.059	
9/29/2015	0.06	
3/23/2016	0.0636	
5/18/2016	0.0629	
7/6/2016	0.0646	
9/8/2016	0.063	
10/19/2016	0.0644	
12/8/2016	0.0648	
2/2/2017	0.0656	
3/27/2017	0.0619	
10/5/2017	0.0655	
3/15/2018	0.062	
10/5/2018	0.07	
4/8/2019		0.058
10/1/2019		0.071
3/27/2020		0.06

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.003	
5/8/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/2/2009	<0.003	
4/14/2010	<0.003	
10/14/2010	<0.003	
4/5/2011	<0.003	
10/12/2011	<0.003	
4/4/2012	<0.003	
9/26/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/11/2014	<0.003	
9/8/2014	<0.003	
4/21/2015	8E-05 (J)	
9/29/2015	<0.003	
3/22/2016	<0.003	
5/17/2016	<0.003	
7/5/2016	<0.003	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/6/2016	<0.003	
2/1/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/5/2019		<0.003
9/30/2019		<0.003
3/26/2020		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
7/6/2007	0.093	
8/28/2007	0.057	
11/6/2007	0.036	
5/8/2008	0.013	
12/2/2008	0.01	
4/8/2009	0.0076	
10/1/2009	0.0057	
4/13/2010	0.0061	
10/7/2010	0.0039	
4/5/2011	0.0025	
10/4/2011	0.0024	
4/3/2012	0.0008	
9/18/2012	0.002	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	0.00037 (J)	
9/8/2014	0.00055 (J)	
4/21/2015	0.00033 (J)	
9/29/2015	0.00046 (J)	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	0.0002 (J)	
9/7/2016	0.0002 (J)	
10/18/2016	0.0002 (J)	
12/8/2016	0.0003 (J)	
2/2/2017	<0.003	
3/24/2017	<0.003	
10/4/2017	0.0001 (J)	
3/15/2018	<0.003	
10/4/2018	0.0002 (J)	
4/8/2019		5.8E-05 (J)
10/1/2019		0.0001 (J)
3/30/2020		<0.003

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.0025	
5/8/2007	<0.0025	
7/17/2007	<0.0025	
8/28/2007	<0.0025	
11/6/2007	<0.0025	
5/8/2008	<0.0025	
12/3/2008	<0.0025	
4/7/2009	<0.0025	
10/2/2009	<0.0025	
4/14/2010	<0.0025	
10/14/2010	<0.0025	
4/5/2011	<0.0025	
10/12/2011	<0.0025	
4/4/2012	<0.0025	
9/24/2012	<0.0025	
3/12/2013	<0.0025	
9/10/2013	<0.0025	
3/11/2014	<0.0025	
9/8/2014	<0.0025	
4/21/2015	<0.0025	
9/29/2015	<0.0025	
3/22/2016	<0.0025	
5/17/2016	<0.0025	
7/6/2016	<0.0025	
9/7/2016	<0.0025	
10/18/2016	<0.0025	
12/6/2016	<0.0025	
2/1/2017	0.0001 (J)	
3/24/2017	<0.0025	
10/4/2017	<0.0025	
3/15/2018	<0.0025	
10/4/2018	<0.0025	
4/8/2019		<0.0025
9/30/2019		<0.0025
3/26/2020		<0.0025

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.0025	
5/8/2007	<0.0025	
7/17/2007	<0.0025	
8/28/2007	<0.0025	
11/7/2007	<0.0025	
5/9/2008	<0.0025	
12/2/2008	<0.0025	
4/8/2009	<0.0025	
10/1/2009	<0.0025	
4/14/2010	<0.0025	
10/13/2010	<0.0025	
4/6/2011	<0.0025	
10/4/2011	<0.0025	
4/10/2012	<0.0025	
9/26/2012	<0.0025	
3/12/2013	<0.0025	
9/10/2013	<0.0025	
3/4/2014	<0.0025	
9/3/2014	<0.0025	
4/21/2015	<0.0025	
9/30/2015	<0.0025	
3/23/2016	<0.0025	
5/17/2016	<0.0025	
7/6/2016	<0.0025	
9/7/2016	<0.0025	
10/18/2016	<0.0025	
12/6/2016	<0.0025	
2/2/2017	9E-05 (J)	
3/27/2017	<0.0025	
10/5/2017	<0.0025	
3/15/2018	<0.0025	
10/4/2018	<0.0025	
4/9/2019		<0.0025
10/1/2019		<0.0025
3/27/2020		<0.0025

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.0025	
5/9/2007	<0.0025	
7/17/2007	<0.0025	
8/28/2007	<0.0025	
11/7/2007	<0.0025	
5/7/2008	<0.0025	
12/3/2008	<0.0025	
4/14/2009	<0.0025	
10/1/2009	<0.0025	
4/13/2010	<0.0025	
10/12/2010	<0.0025	
4/6/2011	<0.0025	
10/12/2011	<0.0025	
4/5/2012	<0.0025	
9/19/2012	<0.0025	
3/13/2013	<0.0025	
9/10/2013	<0.0025	
3/10/2014	<0.0025	
9/3/2014	<0.0025	
4/22/2015	<0.0025	
9/30/2015	<0.0025	
3/24/2016	<0.0025	
5/18/2016	<0.0025	
7/7/2016	<0.0025	
9/8/2016	<0.0025	
10/19/2016	<0.0025	
12/8/2016	<0.0025	
2/2/2017	8E-05 (J)	
3/27/2017	<0.0025	
10/5/2017	<0.0025	
3/16/2018	<0.0025	
10/5/2018	<0.0025	
4/9/2019		<0.0025
10/1/2019		<0.0025
3/30/2020		<0.0025



# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.0025	
5/9/2007	<0.0025	
7/17/2007	<0.0025	
8/29/2007	<0.0025	
11/7/2007	<0.0025	
5/7/2008	<0.0025	
12/5/2008	<0.0025	
4/14/2009	<0.0025	
9/30/2009	<0.0025	
4/13/2010	<0.0025	
10/12/2010	<0.0025	
10/12/2011	<0.0025	
4/9/2012	<0.0025	
9/25/2012	<0.0025	
3/13/2013	<0.0025	
9/11/2013	<0.0025	
3/10/2014	<0.0025	
9/9/2014	<0.0025	
4/23/2015	<0.0025	
9/30/2015	<0.0025	
3/23/2016	<0.0025	
5/18/2016	<0.0025	
7/7/2016	<0.0025	
9/8/2016	<0.0025	
10/19/2016	<0.0025	
12/7/2016	<0.0025	
2/3/2017	<0.0025	
3/27/2017	<0.0025	
10/5/2017	<0.0025	
3/16/2018	<0.0025	
10/5/2018	0.00011 (J)	
4/9/2019		<0.0025
10/1/2019		<0.0025
3/31/2020		<0.0025

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.0025	
5/9/2007	<0.0025	
7/17/2007	<0.0025	
8/29/2007	<0.0025	
11/7/2007	<0.0025	
5/7/2008	<0.0025	
12/5/2008	<0.0025	
4/27/2009	<0.0025	
9/30/2009	<0.0025	
4/13/2010	<0.0025	
10/12/2010	<0.0025	
10/5/2011	<0.0025	
4/10/2012	<0.0025	
9/26/2012	<0.0025	
3/13/2013	<0.0025	
9/11/2013	<0.0025	
3/11/2014	<0.0025	
9/9/2014	<0.0025	
9/30/2015	<0.0025	
3/24/2016	<0.0025	
5/18/2016	<0.0025	
7/7/2016	0.0001 (J)	
9/8/2016	<0.0025	
10/19/2016	<0.0025	
12/7/2016	<0.0025	
2/2/2017	0.0001 (J)	
3/27/2017	<0.0025	
10/5/2017	<0.0025	
3/15/2018	<0.0025	
10/4/2018	<0.0025	
4/9/2019		<0.0025
10/1/2019		<0.0025
3/31/2020		<0.0025

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.0025	
5/9/2007	<0.0025	
7/17/2007	<0.0025	
8/29/2007	<0.0025	
11/7/2007	<0.0025	
5/7/2008	<0.0025	
12/5/2008	<0.0025	
4/14/2009	<0.0025	
10/1/2009	<0.0025	
4/14/2010	<0.0025	
10/13/2010	<0.0025	
4/6/2011	<0.0025	
10/12/2011	<0.0025	
4/9/2012	<0.0025	
9/19/2012	<0.0025	
3/13/2013	<0.0025	
9/10/2013	<0.0025	
3/11/2014	<0.0025	
9/3/2014	<0.0025	
4/23/2015	<0.0025	
9/30/2015	<0.0025	
3/23/2016	<0.0025	
5/19/2016	<0.0025	
7/7/2016	<0.0025	
9/8/2016	<0.0025	
10/19/2016	<0.0025	
12/7/2016	<0.0025	
2/3/2017	8E-05 (J)	
3/27/2017	<0.0025	
10/5/2017	<0.0025	
3/15/2018	<0.0025	
10/5/2018	<0.0025	
4/8/2019		<0.0025
10/1/2019		<0.0025
3/26/2020		<0.0025

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	0.0015	
5/8/2007	<0.0025	
7/6/2007	<0.0025	
8/28/2007	<0.0025	
11/6/2007	<0.0025	
5/8/2008	<0.0025	
12/3/2008	<0.0025	
4/7/2009	<0.0025	
10/1/2009	<0.0025	
4/14/2010	<0.0025	
10/14/2010	<0.0025	
4/5/2011	<0.0025	
10/12/2011	<0.0025	
4/4/2012	<0.0025	
9/24/2012	<0.0025	
3/12/2013	<0.0025	
9/10/2013	<0.0025	
3/5/2014	<0.0025	
9/9/2014	<0.0025	
4/21/2015	<0.0025	
9/29/2015	<0.0025	
3/23/2016	<0.0025	
5/17/2016	<0.0025	
7/6/2016	<0.0025	
9/7/2016	<0.0025	
10/18/2016	<0.0025	
12/8/2016	<0.0025	
2/1/2017	<0.0025	
3/23/2017	<0.0025	
10/4/2017	<0.0025	
3/16/2018	<0.0025	
10/4/2018	<0.0025	
4/9/2019		<0.0025
10/1/2019		<0.0025
3/31/2020		<0.0025

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.023 (o)	
7/6/2007	0.0081	
8/28/2007	0.0035	
11/6/2007	0.0028	
5/8/2008	<0.0025	
12/2/2008	<0.0025	
4/8/2009	0.0013	
10/1/2009	<0.0025	
4/13/2010	<0.0025	
10/7/2010	<0.0025	
4/5/2011	<0.0025	
10/4/2011	<0.0025	
4/3/2012	<0.0025	
9/18/2012	<0.0025	
3/12/2013	<0.0025	
9/10/2013	<0.0025	
3/5/2014	<0.0025	
9/8/2014	<0.0025	
4/21/2015	0.0015	
9/29/2015	<0.0025	
3/23/2016	<0.0025	
5/18/2016	<0.0025	
7/6/2016	<0.0025	
9/7/2016	<0.0025	
10/18/2016	<0.0025	
12/8/2016	<0.0025	
2/2/2017	0.0001 (J)	
3/24/2017	<0.0025	
10/4/2017	<0.0025	
3/15/2018	<0.0025	
10/4/2018	<0.0025	
4/8/2019		<0.0025
10/1/2019		<0.0025
3/30/2020		<0.0025

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.0025	
7/6/2007	<0.0025	
8/28/2007	<0.0025	
11/6/2007	<0.0025	
5/8/2008	<0.0025	
12/2/2008	<0.0025	
4/8/2009	<0.0025	
9/30/2009	<0.0025	
4/13/2010	<0.0025	
10/13/2010	<0.0025	
4/5/2011	<0.0025	
10/4/2011	<0.0025	
4/3/2012	<0.0025	
9/19/2012	<0.0025	
3/12/2013	<0.0025	
9/10/2013	<0.0025	
3/5/2014	<0.0025	
9/9/2014	<0.0025	
4/22/2015	<0.0025	
9/29/2015	<0.0025	
3/23/2016	<0.0025	
5/18/2016	<0.0025	
7/6/2016	<0.0025	
9/8/2016	<0.0025	
10/18/2016	<0.0025	
12/8/2016	<0.0025	
2/2/2017	8E-05 (J)	
3/24/2017	<0.0025	
10/5/2017	<0.0025	
3/14/2018	<0.0025	
10/4/2018	<0.0025	
4/8/2019		<0.0025
10/1/2019		<0.0025
3/27/2020		<0.0025

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.0025	
5/8/2007	<0.0025	
7/6/2007	<0.0025	
8/28/2007	<0.0025	
11/6/2007	<0.0025	
5/8/2008	<0.0025	
12/2/2008	<0.0025	
4/8/2009	<0.0025	
9/30/2009	<0.0025	
4/13/2010	<0.0025	
10/13/2010	<0.0025	
4/5/2011	<0.0025	
10/4/2011	<0.0025	
4/4/2012	<0.0025	
9/19/2012	<0.0025	
3/12/2013	<0.0025	
9/10/2013	<0.0025	
3/5/2014	<0.0025	
9/3/2014	<0.0025	
4/21/2015	0.00029 (J)	
9/29/2015	<0.0025	
3/23/2016	<0.0025	
5/18/2016	<0.0025	
7/6/2016	<0.0025	
9/8/2016	<0.0025	
10/19/2016	<0.0025	
12/8/2016	<0.0025	
2/2/2017	8E-05 (J)	
3/27/2017	<0.0025	
10/5/2017	<0.0025	
3/15/2018	<0.0025	
10/5/2018	<0.0025	
4/8/2019		<0.0025
10/1/2019		<0.0025
3/27/2020		<0.0025

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/6/2007	<0.01	
5/8/2007	<0.01	
7/7/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/9/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/10/2011	<0.01	
4/3/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/11/2013	<0.01	
3/4/2014	0.00032 (J)	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/5/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	<0.01	
1/31/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/14/2018	0.016	
10/4/2018	<0.01	
4/8/2019		<0.01
9/30/2019		<0.01
3/26/2020		<0.01



# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	0.0013	
11/7/2007	0.0024	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	0.0018 (J)	
2/1/2017	<0.01	
3/24/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01
9/30/2019		<0.01
3/26/2020		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/6/2007	<0.01	
5/8/2007	<0.01	
7/7/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/9/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/7/2010	<0.01	
4/6/2011	<0.01	
10/6/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/5/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/7/2016	<0.01	
1/31/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01
9/30/2019		<0.01
3/26/2020		0.00043 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	0.0014	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/2/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/8/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/5/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/5/2019		<0.01
9/30/2019		<0.01
3/26/2020		0.00062 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/2/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/8/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	<0.01	
2/1/2017	<0.01	
3/24/2017	0.0004 (J)	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01
9/30/2019		<0.01
3/26/2020		0.0013 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	0.00424 (J)	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	0.0013 (J)	
2/2/2017	0.001 (J)	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/27/2020		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	<0.01	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01
10/1/2019		0.00086 (J)
3/30/2020		0.00071 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/4/2008	<0.01	
4/14/2009	<0.01	
10/2/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	0.0012 (J)	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/31/2020		0.00042 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	0.0016	
11/7/2007	0.0016	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	0.0064 (J)	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/31/2020		<0.01



# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	0.0015	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/31/2020		0.00093 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	0.002	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	0.0013	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		0.0023 (J)
10/1/2019		<0.01
3/31/2020		0.0015 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	0.0013	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/19/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01
10/1/2019		0.0051 (J)
3/26/2020		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		0.0012 (J)
3/31/2020		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/6/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01
10/1/2019		<0.01
3/31/2020		0.00085 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.11 (o)	
7/6/2007	0.0029	
8/28/2007	0.0038	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	0.0016	
4/13/2010	<0.01	
10/7/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	0.0018	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/24/2017	0.0011 (J)	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01
10/1/2019		<0.01
3/30/2020		0.00041 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	0.0035	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	0.0017	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/24/2017	<0.01	
10/5/2017	0.0005 (J)	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01
10/1/2019		0.0005 (J)
3/27/2020		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	0.0013	
7/6/2007	<0.01	
8/28/2007	0.0014	
11/6/2007	0.0024	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01
10/1/2019		<0.01
3/27/2020		<0.01



# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/6/2007	<0.01	
5/8/2007	<0.01	
7/7/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/9/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/10/2011	<0.01	
4/3/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/11/2013	<0.01	
3/4/2014	0.00043 (J)	
9/3/2014	0.00076 (J)	
4/21/2015	0.00051 (J)	
9/30/2015	0.0006 (J)	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/5/2016	0.0004 (J)	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	0.0006 (J)	
1/31/2017	0.0006 (J)	
3/23/2017	0.0007 (J)	
10/4/2017	0.0006 (J)	
3/14/2018	<0.01	
10/4/2018	0.00058 (J)	
4/8/2019		0.00026 (J)
9/30/2019		0.00042 (J)
3/26/2020		0.00049 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	0.00047 (J)	
9/3/2014	0.00065 (J)	
4/21/2015	0.00062 (J)	
9/29/2015	0.0009 (J)	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	0.0009 (J)	
9/7/2016	0.0011 (J)	
10/18/2016	0.0011 (J)	
12/6/2016	0.0011 (J)	
2/1/2017	0.0011 (J)	
3/24/2017	0.0008 (J)	
10/5/2017	0.0008 (J)	
3/15/2018	<0.01	
10/4/2018	0.00072 (J)	
4/8/2019		0.00076 (J)
9/30/2019		0.00054 (J)
3/26/2020		0.00063 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/6/2007	<0.005	
5/8/2007	<0.005	
7/7/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/9/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/7/2010	<0.005	
4/6/2011	<0.005	
10/6/2011	<0.005	
4/3/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/4/2014	<0.005	
9/3/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/22/2016	<0.005	
5/17/2016	<0.005	
7/5/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/7/2016	<0.005	
1/31/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/14/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		6.1E-05 (J)
9/30/2019		<0.005
3/26/2020		<0.005

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/2/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	<0.005	
9/8/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/22/2016	<0.005	
5/17/2016	<0.005	
7/5/2016	0.0003 (J)	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	0.0007 (J)	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/5/2019		0.00031 (J)
9/30/2019		<0.005
3/26/2020		<0.005

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/2/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	0.0016	
3/12/2013	<0.01	
9/10/2013	0.002	
3/11/2014	<0.01	
9/8/2014	0.001 (J)	
4/21/2015	<0.01	
9/29/2015	0.0025 (J)	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	0.0004 (J)	
9/7/2016	0.0008 (J)	
10/18/2016	<0.01	
12/6/2016	0.0026 (J)	
2/1/2017	0.0013 (J)	
3/24/2017	0.0014 (J)	
10/4/2017	0.0012 (J)	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.00044 (J)
9/30/2019		0.00079 (J)
3/26/2020		0.00082 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.0025	
5/8/2007	<0.0025	
7/17/2007	<0.0025	
8/28/2007	<0.0025	
11/7/2007	<0.0025	
5/9/2008	<0.0025	
12/2/2008	<0.0025	
4/8/2009	<0.0025	
10/1/2009	<0.0025	
4/14/2010	<0.0025	
10/13/2010	<0.0025	
4/6/2011	<0.0025	
10/4/2011	<0.0025	
4/10/2012	<0.0025	
9/26/2012	<0.0025	
3/12/2013	<0.0025	
9/10/2013	<0.0025	
3/4/2014	<0.0025	
9/3/2014	<0.0025	
4/21/2015	<0.0025	
9/30/2015	<0.0025	
3/23/2016	<0.0025	
5/17/2016	<0.0025	
7/6/2016	<0.0025	
9/7/2016	<0.0025	
10/18/2016	<0.0025	
12/6/2016	<0.0025	
2/2/2017	<0.0025	
3/27/2017	<0.0025	
10/5/2017	<0.0025	
3/15/2018	<0.0025	
10/4/2018	<0.0025	
4/9/2019		<0.0025
10/1/2019		<0.0025
3/27/2020		0.00082 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	0.0033	
3/13/2013	<0.01	
9/11/2013	0.0018	
3/11/2014	0.00029 (J)	
9/9/2014	0.0011 (J)	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	0.0016 (J)	
9/8/2016	0.0006 (J)	
10/19/2016	0.0006 (J)	
12/7/2016	0.0006 (J)	
2/2/2017	<0.01	
3/27/2017	0.001 (J)	
10/5/2017	0.0051 (J)	
3/15/2018	<0.01	
10/4/2018	0.0065 (J)	
4/9/2019		0.0023 (J)
10/1/2019		0.00046 (J)
3/31/2020		0.0019 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/19/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	0.00058 (J)	
4/8/2019		0.00046 (J)
10/1/2019		0.00033 (J)
3/26/2020		0.00035 (J)



# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.005	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/24/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/9/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	0.0007 (J)	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/31/2020		<0.005

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/6/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/5/2014	<0.005	
9/8/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		0.00022 (J)
10/1/2019		<0.005
3/31/2020		<0.005

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	6.5 (o)	
7/6/2007	2.1 (o)	
8/28/2007	1.4 (o)	
11/6/2007	1.1 (o)	
5/8/2008	0.75	
12/2/2008	0.41	
4/8/2009	0.38	
10/1/2009	0.29	
4/13/2010	0.26	
10/7/2010	0.24	
4/5/2011	0.17	
10/4/2011	0.19	
4/3/2012	0.114	
9/18/2012	0.14	
3/12/2013	0.041	
9/10/2013	0.06	
3/5/2014	0.049	
9/8/2014	0.068	
4/21/2015	0.043	
9/29/2015	0.0525	
3/23/2016	0.0172	
5/18/2016	0.021	
7/6/2016	0.0278	
9/7/2016	0.0334	
10/18/2016	0.0368	
12/8/2016	0.0419	
2/2/2017	0.0113	
3/24/2017	0.0094 (J)	
10/4/2017	0.0237	
3/15/2018	0.014	
10/4/2018	0.024	
4/8/2019		0.0086 (J)
10/1/2019		0.017
3/30/2020		0.012

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/24/2017	<0.01	
10/5/2017	0.0003 (J)	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.0017 (J)
10/1/2019		0.00081 (J)
3/27/2020		0.0016 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	0.0004 (J)	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	0.0004 (J)	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		0.00041 (J)
10/1/2019		0.00041 (J)
3/27/2020		0.00063 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	0.0032	
11/7/2007	0.0036	
5/9/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/4/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/4/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/22/2016	<0.005	
9/7/2016	<0.005	
3/24/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		0.0013 (J)
9/30/2019		<0.005
3/26/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/6/2007	<0.005	
5/8/2007	<0.005	
7/7/2007	<0.005	
8/28/2007	0.0032	
11/6/2007	<0.005	
5/9/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/7/2010	<0.005	
4/6/2011	<0.005	
10/6/2011	<0.005	
4/3/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/4/2014	<0.005	
9/3/2014	0.0011 (J)	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/22/2016	<0.005	
9/7/2016	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/14/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		0.00029 (J)
9/30/2019		<0.005
3/26/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.025	
5/8/2007	<0.025	
7/17/2007	0.0028	
8/28/2007	0.0039	
11/6/2007	<0.025	
5/8/2008	<0.025	
12/3/2008	<0.025	
4/7/2009	<0.025	
10/2/2009	<0.025	
4/14/2010	<0.025	
10/14/2010	<0.025	
4/5/2011	<0.025	
10/12/2011	<0.025	
4/4/2012	<0.025	
9/26/2012	<0.025	
3/12/2013	<0.025	
9/10/2013	<0.025	
3/11/2014	<0.025	
9/8/2014	<0.025	
4/21/2015	<0.025	
9/29/2015	<0.025	
3/22/2016	<0.025	
9/7/2016	<0.025	
3/23/2017	<0.025	
10/4/2017	<0.025	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/5/2019		<0.025
9/30/2019		<0.025
3/26/2020		0.00022 (J)



# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	0.0061	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/2/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	0.0066	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/24/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	<0.005	
9/8/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/22/2016	<0.005	
9/7/2016	<0.005	
3/24/2017	<0.005	
10/4/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005
9/30/2019		<0.005
3/26/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	0.0025	
5/8/2007	<0.025	
7/17/2007	<0.025	
8/28/2007	<0.025	
11/7/2007	<0.025	
5/9/2008	<0.025	
12/2/2008	<0.025	
4/8/2009	<0.025	
10/1/2009	<0.025	
4/14/2010	<0.025	
10/13/2010	<0.025	
4/6/2011	<0.025	
10/12/2011	<0.025	
4/10/2012	<0.025	
9/26/2012	<0.025	
3/12/2013	<0.025	
9/10/2013	<0.025	
3/4/2014	<0.025	
9/3/2014	<0.025	
4/21/2015	<0.025	
9/30/2015	<0.025	
3/23/2016	<0.025	
9/7/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	<0.025	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		<0.025
10/1/2019		<0.025
3/27/2020		0.00022 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	0.0029	
5/7/2008	<0.005	
12/3/2008	<0.005	
4/14/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/19/2012	<0.005	
3/13/2013	<0.005	
9/10/2013	<0.005	
3/10/2014	<0.005	
9/3/2014	0.00099 (J)	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
9/8/2016	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		<0.005
10/1/2019		0.00037 (J)
3/30/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	0.0035	
5/7/2008	<0.005	
12/4/2008	<0.005	
4/14/2009	<0.005	
10/2/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	<0.005	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
9/8/2016	<0.005	
3/27/2017	0.0004 (J)	
10/5/2017	0.0005 (J)	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		0.0014 (J)
10/1/2019		0.00019 (J)
3/31/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	0.0028	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	<0.005	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
9/8/2016	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		<0.005
10/1/2019		0.00023 (J)
3/31/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/29/2007	<0.025	
11/7/2007	0.0029	
5/7/2008	0.0026	
12/5/2008	<0.025	
4/27/2009	<0.025	
9/30/2009	<0.025	
4/13/2010	<0.025	
10/12/2010	<0.025	
10/5/2011	<0.025	
4/10/2012	<0.025	
9/26/2012	<0.025	
3/13/2013	<0.025	
9/11/2013	<0.025	
3/11/2014	<0.025	
9/9/2014	0.0013 (J)	
9/30/2015	0.0008 (J)	
3/24/2016	<0.025	
9/8/2016	0.0006 (J)	
3/27/2017	0.0005 (J)	
10/5/2017	<0.025	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		<0.025
10/1/2019		0.00084 (J)
3/31/2020		0.00082 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/29/2007	<0.025	
11/7/2007	0.0033	
5/7/2008	<0.025	
12/5/2008	<0.025	
4/14/2009	<0.025	
9/30/2009	<0.025	
4/13/2010	<0.025	
10/12/2010	<0.025	
4/6/2011	<0.025	
10/5/2011	<0.025	
4/9/2012	<0.025	
9/25/2012	<0.025	
3/13/2013	<0.025	
9/11/2013	<0.025	
3/11/2014	<0.025	
9/9/2014	<0.025	
4/23/2015	<0.025	
9/30/2015	<0.025	
3/23/2016	<0.025	
9/8/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	<0.025	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		<0.025
10/1/2019		0.00031 (J)
3/31/2020		0.0002 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/29/2007	<0.025	
11/7/2007	0.0084	
5/7/2008	<0.025	
12/5/2008	<0.025	
4/14/2009	<0.025	
10/1/2009	<0.025	
4/14/2010	<0.025	
10/13/2010	<0.025	
4/6/2011	<0.025	
10/12/2011	<0.025	
4/9/2012	<0.025	
9/19/2012	<0.025	
3/13/2013	<0.025	
9/10/2013	<0.025	
3/11/2014	<0.025	
9/3/2014	<0.025	
4/23/2015	<0.025	
9/30/2015	0.0012 (J)	
3/23/2016	<0.025	
9/8/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	0.0003 (J)	
3/15/2018	0.0016 (J)	
10/5/2018	<0.025	
4/8/2019		0.0005 (J)
10/1/2019		0.00083 (J)
3/26/2020		0.00067 (J)



# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	0.0027	
5/8/2007	0.0026	
7/6/2007	<0.025	
8/28/2007	0.0036	
11/6/2007	<0.025	
5/8/2008	<0.025	
12/3/2008	<0.025	
4/7/2009	<0.025	
10/1/2009	<0.025	
4/14/2010	<0.025	
10/14/2010	<0.025	
4/5/2011	<0.025	
10/12/2011	<0.025	
4/4/2012	<0.025	
9/24/2012	<0.025	
3/12/2013	<0.025	
9/10/2013	<0.025	
3/5/2014	<0.025	
9/9/2014	<0.025	
4/21/2015	<0.025	
9/29/2015	<0.025	
3/23/2016	<0.025	
9/7/2016	<0.025	
3/23/2017	<0.025	
10/4/2017	<0.025	
3/16/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		<0.025
10/1/2019		0.00031 (J)
3/31/2020		0.00019 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/6/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/5/2014	<0.005	
9/8/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
9/7/2016	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005
10/1/2019		0.00023 (J)
3/31/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.44 (o)	
7/6/2007	0.016	
8/28/2007	0.0091	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	0.003	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/7/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/8/2014	<0.005	
4/21/2015	0.00082 (J)	
9/29/2015	<0.005	
3/23/2016	<0.005	
9/7/2016	<0.005	
3/24/2017	0.0007 (J)	
10/4/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		0.00025 (J)
10/1/2019		0.00034 (J)
3/30/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
9/8/2016	<0.005	
3/24/2017	<0.005	
10/5/2017	<0.005	
3/14/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005
10/1/2019		0.00036 (J)
3/27/2020		<0.005

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	0.0043	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/4/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
9/8/2016	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/5/2018	<0.005	
4/8/2019		<0.005
10/1/2019		<0.005
3/27/2020		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/9/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/4/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/4/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/22/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	<0.005	
2/1/2017	<0.005	
3/24/2017	7E-05 (J)	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005
9/30/2019		<0.005
3/26/2020		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/2/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	<0.005	
9/8/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/22/2016	<0.005	
5/17/2016	<0.005	
7/5/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/5/2019		<0.005
9/30/2019		<0.005
3/26/2020		4.7E-05 (J)

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/9/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/4/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/4/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/27/2020		5.4E-05 (J)



# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/4/2008	<0.005	
4/14/2009	<0.005	
10/2/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	<0.005	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/18/2016	<0.005	
12/7/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	0.0002 (J)	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/31/2020		6.1E-05 (J)

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	<0.005	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/3/2017	<0.005	
3/27/2017	7E-05 (J)	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/31/2020		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/27/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/5/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	<0.005	
9/9/2014	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	0.0001 (J)	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		7.5E-05 (J)
3/31/2020		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/5/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	<0.005	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		0.00012 (J)
3/31/2020		0.00013 (J)

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/19/2012	<0.005	
3/13/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	<0.005	
9/3/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/19/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/3/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/5/2018	0.00042 (J)	
4/8/2019		0.00018 (J)
10/1/2019		0.00022 (J)
3/26/2020		0.00016 (J)

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.005	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/24/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/9/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		0.00039 (J)
10/1/2019		6.5E-05 (J)
3/31/2020		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/6/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/5/2014	<0.005	
9/8/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	0.0001 (J)	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005
10/1/2019		<0.005
3/31/2020		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/7/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	0.0016 (J)	
9/8/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	0.0001 (J)	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	0.0003 (J)	
3/24/2017	0.0002 (J)	
10/4/2017	7E-05 (J)	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005
10/1/2019		5E-05 (J)
3/30/2020		4.8E-05 (J)



# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	0.0002 (J)	
2/2/2017	<0.005	
3/24/2017	<0.005	
10/5/2017	<0.005	
3/14/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005
10/1/2019		<0.005
3/27/2020		<0.005

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/6/2007	<0.01	
5/8/2007	<0.01	
7/7/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/9/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/10/2011	<0.01	
4/3/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/11/2013	<0.01	
3/4/2014	0.001 (J)	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/22/2016	<0.01	
9/7/2016	0.0008 (J)	
3/23/2017	0.0007 (J)	
10/4/2017	0.0006 (J)	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.00034 (J)
9/30/2019		0.00037 (J)
3/26/2020		0.00065 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	0.002 (J)	
9/3/2014	0.002 (J)	
4/21/2015	0.002 (J)	
9/29/2015	0.0022 (J)	
3/22/2016	<0.01	
9/7/2016	0.0026 (J)	
3/24/2017	0.0024 (J)	
10/5/2017	0.0023 (J)	
3/15/2018	0.0026 (J)	
10/4/2018	0.0023 (J)	
4/8/2019		0.0023 (J)
9/30/2019		0.0017 (J)
3/26/2020		0.002 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/6/2007	<0.005	
5/8/2007	<0.005	
7/7/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/9/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/7/2010	<0.005	
4/6/2011	<0.005	
10/6/2011	<0.005	
4/3/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/4/2014	0.0007 (J)	
9/3/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/22/2016	<0.005	
9/7/2016	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/14/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005
9/30/2019		<0.005
3/26/2020		<0.005

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/2/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	0.0013 (J)	
9/8/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/22/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	0.0022 (J)	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/5/2019		0.00075 (J)
9/30/2019		<0.01
3/26/2020		0.0011 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/2/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	0.0032	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	0.0032	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	0.0026	
9/8/2014	0.0017 (J)	
4/21/2015	0.0016 (J)	
9/29/2015	0.0055	
3/22/2016	<0.01	
9/7/2016	0.0014 (J)	
3/24/2017	0.0017 (J)	
10/4/2017	0.0023 (J)	
3/15/2018	0.0024 (J)	
10/4/2018	0.0013 (J)	
4/8/2019		0.00089 (J)
9/30/2019		0.0013 (J)
3/26/2020		0.00096 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/27/2020		0.0023 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	0.0013 (J)	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
9/8/2016	0.0009 (J)	
3/27/2017	0.0006 (J)	
10/5/2017	0.0008 (J)	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01
10/1/2019		0.0015 (J)
3/30/2020		0.00048 (J)



# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/4/2008	<0.005	
4/14/2009	<0.005	
10/2/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	0.00072 (J)	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
9/8/2016	<0.005	
3/27/2017	0.0062 (J)	
10/5/2017	0.0005 (J)	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/31/2020		<0.005

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	0.00074 (J)	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
9/8/2016	<0.005	
3/27/2017	0.0006 (J)	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/31/2020		<0.005

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	0.0055	
11/7/2007	0.0044	
5/7/2008	0.0047	
12/5/2008	<0.005	
4/27/2009	0.0027	
9/30/2009	0.0051	
4/13/2010	0.0031	
10/12/2010	<0.005	
10/5/2011	0.0032	
4/10/2012	<0.005	
9/26/2012	0.0063	
3/13/2013	0.0029	
9/11/2013	0.0046	
3/11/2014	0.002 (J)	
9/9/2014	0.0029	
9/30/2015	0.0025 (J)	
3/24/2016	0.00317 (J)	
9/8/2016	0.0038 (J)	
3/27/2017	0.0024 (J)	
10/5/2017	0.0104	
3/15/2018	0.0026 (J)	
10/4/2018	0.012	
12/11/2018	0.0052 (J)	
4/9/2019		0.0048 (J)
10/1/2019		0.0031 (J)
3/31/2020		0.0039 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/5/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	0.00059 (J)	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
9/8/2016	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/31/2020		<0.005

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	0.0016 (J)	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	0.0011 (J)	
3/27/2017	0.0007 (J)	
10/5/2017	<0.01	
3/15/2018	0.001 (J)	
10/5/2018	0.0014 (J)	
4/8/2019		0.0011 (J)
10/1/2019		0.0035 (J)
3/26/2020		0.001 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.001 (J)	
9/9/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	0.0008 (J)	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		0.00098 (J)
10/1/2019		0.00088 (J)
3/31/2020		0.0013 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/6/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/5/2014	0.00092 (J)	
9/8/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
9/7/2016	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		0.00032 (J)
10/1/2019		0.00042 (J)
3/31/2020		<0.005

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	18 (o)	
7/6/2007	5.9 (o)	
8/28/2007	3.9	
11/6/2007	3.1	
5/8/2008	2.1	
12/2/2008	1.2	
4/8/2009	1.1	
10/1/2009	0.88	
4/13/2010	0.82	
10/7/2010	0.72	
4/5/2011	0.52	
10/4/2011	0.56	
4/3/2012	0.365	
9/18/2012	0.45	
3/12/2013	0.13	
9/10/2013	0.2	
3/5/2014	0.17	
9/8/2014	0.25	
4/21/2015	0.15	
9/29/2015	0.203	
3/23/2016	0.0607	
9/7/2016	0.141	
3/24/2017	0.0313	
10/4/2017	0.093	
3/15/2018	0.057	
10/4/2018	0.11	
4/8/2019		0.03
10/1/2019		0.07
3/30/2020		0.037



# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.00079 (J)	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/24/2017	<0.01	
10/5/2017	<0.01	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.00064 (J)
10/1/2019		0.00063 (J)
3/27/2020		0.00053 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	0.003	
3/5/2014	0.0022 (J)	
9/3/2014	<0.01	
4/21/2015	0.0019 (J)	
9/29/2015	0.0019 (J)	
3/23/2016	<0.01	
9/8/2016	0.0023 (J)	
3/27/2017	0.0023 (J)	
10/5/2017	0.0024 (J)	
3/15/2018	0.0023 (J)	
10/5/2018	0.0025 (J)	
4/8/2019		0.0021 (J)
10/1/2019		0.0022 (J)
3/27/2020		0.0022 (J)

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/2/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/8/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/22/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	<0.01	
2/1/2017	<0.01	
3/24/2017	<0.01	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.00014 (J)
9/30/2019		<0.01
3/26/2020		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	0.0016 (J)	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/27/2020		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	0.0024 (J)	
9/9/2014	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	0.0017 (J)	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/31/2020		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	0.0017 (J)	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		0.0014 (J)
3/31/2020		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.0018 (J)	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01
10/1/2019		<0.01
3/27/2020		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/27/2009	0.0036	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/5/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	<0.005	
9/9/2014	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
9/8/2016	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005
10/1/2019		<0.005
3/31/2020		<0.005



# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.001	
7/6/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	<0.001	
10/1/2009	<0.001	
4/13/2010	<0.001	
10/7/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<0.001	
9/18/2012	<0.001	
3/12/2013	<0.001	
3/5/2014	<0.001	
9/8/2014	<0.001	
4/21/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	0.0001 (J)	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	<0.001	
3/24/2017	<0.001	
10/4/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/8/2019		<0.001
10/1/2019		<0.001
3/30/2020		<0.001

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	0.0029 (J)	
9/30/2015	0.001 (J)	
3/24/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/31/2020		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		0.00017 (J)
10/1/2019		<0.01
3/26/2020		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	0.00093 (J)	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01
10/1/2019		<0.01
3/31/2020		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	0.0039	
4/13/2010	<0.01	
10/7/2010	<0.01	
4/5/2011	0.0025	
10/4/2011	0.0027	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	0.0012 (J)	
4/21/2015	0.0015 (J)	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/24/2017	<0.01	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01
10/1/2019		<0.01
3/30/2020		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	0.0029	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01
10/1/2019		<0.01
3/27/2020		<0.01

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/6/2007	<0.02	
5/8/2007	<0.02	
7/7/2007	<0.02	
8/28/2007	<0.02	
11/6/2007	<0.02	
5/9/2008	<0.02	
12/3/2008	<0.02	
4/7/2009	0.0028	
10/1/2009	<0.02	
4/14/2010	<0.02	
10/13/2010	<0.02	
4/6/2011	<0.02	
10/10/2011	<0.02	
4/3/2012	<0.02	
9/24/2012	<0.02	
3/12/2013	<0.02	
9/11/2013	<0.02	
3/4/2014	0.0026	
9/3/2014	0.001 (J)	
4/21/2015	<0.02	
9/30/2015	<0.02	
3/22/2016	<0.02	
9/7/2016	0.0047 (J)	
3/23/2017	<0.02	
10/4/2017	<0.02	
3/14/2018	0.0032 (J)	
10/4/2018	0.003 (J)	
4/8/2019		<0.02
9/30/2019		0.0032 (J)
3/26/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/7/2007	<0.02	
5/8/2007	0.0025	
7/17/2007	0.0047	
8/28/2007	0.0033	
11/7/2007	<0.02	
5/9/2008	<0.02	
12/2/2008	<0.02	
4/8/2009	<0.02	
10/1/2009	<0.02	
4/14/2010	<0.02	
10/13/2010	<0.02	
4/6/2011	<0.02	
10/4/2011	<0.02	
4/10/2012	<0.02	
9/26/2012	<0.02	
3/12/2013	<0.02	
9/10/2013	<0.02	
3/4/2014	<0.02	
9/3/2014	0.00074 (J)	
4/21/2015	<0.02	
9/29/2015	0.0024 (J)	
3/22/2016	<0.02	
9/7/2016	0.0023 (J)	
3/24/2017	0.0068 (J)	
10/5/2017	<0.02	
3/15/2018	0.0042 (J)	
10/4/2018	0.0046 (J)	
4/8/2019		0.0024 (J)
9/30/2019		0.004 (J)
3/26/2020		<0.02



# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/6/2007	<0.02	
5/8/2007	<0.02	
7/7/2007	<0.02	
8/28/2007	0.0026	
11/6/2007	<0.02	
5/9/2008	<0.02	
12/3/2008	<0.02	
4/7/2009	<0.02	
10/1/2009	<0.02	
4/13/2010	<0.02	
10/7/2010	<0.02	
4/6/2011	<0.02	
10/6/2011	<0.02	
4/3/2012	<0.02	
9/19/2012	<0.02	
3/12/2013	<0.02	
9/9/2013	<0.02	
3/4/2014	0.0035	
9/3/2014	0.0015 (J)	
4/22/2015	<0.02	
9/30/2015	0.0026 (J)	
3/22/2016	<0.02	
9/7/2016	0.0024 (J)	
3/23/2017	<0.02	
10/4/2017	0.0017 (J)	
3/14/2018	0.0023 (J)	
10/4/2018	0.0041 (J)	
4/8/2019		0.0014 (J)
9/30/2019		0.0043 (J)
3/26/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/6/2007	<0.02	
5/8/2007	<0.02	
7/17/2007	0.0033	
8/28/2007	<0.02	
11/6/2007	<0.02	
5/8/2008	0.0033	
12/3/2008	0.0054	
4/7/2009	<0.02	
10/2/2009	<0.02	
4/14/2010	0.003	
10/14/2010	<0.02	
4/5/2011	<0.02	
10/12/2011	<0.02	
4/4/2012	<0.02	
9/26/2012	<0.02	
3/12/2013	<0.02	
9/10/2013	<0.02	
3/11/2014	0.0037	
9/8/2014	0.00087 (J)	
4/21/2015	0.002 (J)	
9/29/2015	0.0021 (J)	
3/22/2016	<0.02	
9/7/2016	0.0034 (J)	
3/23/2017	0.0031 (J)	
10/4/2017	<0.02	
3/15/2018	0.0028 (J)	
10/4/2018	0.0043 (J)	
4/5/2019		0.0013 (J)
9/30/2019		0.0045 (J)
3/26/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/6/2007	<0.02	
5/8/2007	<0.02	
7/17/2007	<0.02	
8/28/2007	0.0026	
11/6/2007	<0.02	
5/8/2008	0.0037	
12/3/2008	0.003	
4/7/2009	0.0045	
10/2/2009	0.0027	
4/14/2010	<0.02	
10/14/2010	0.0041	
4/5/2011	<0.02	
10/12/2011	0.0033	
4/4/2012	<0.02	
9/24/2012	0.0039	
3/12/2013	<0.02	
9/10/2013	0.0035	
3/11/2014	0.0045	
9/8/2014	0.0026	
4/21/2015	0.0028	
9/29/2015	0.008 (J)	
3/22/2016	<0.02	
9/7/2016	0.0035 (J)	
3/24/2017	0.0095 (J)	
10/4/2017	0.0031 (J)	
3/15/2018	0.0041 (J)	
10/4/2018	0.0058 (J)	
4/8/2019		0.0023 (J)
9/30/2019		0.0059 (J)
3/26/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.02	
5/8/2007	<0.02	
7/17/2007	0.0069	
8/28/2007	<0.02	
11/7/2007	<0.02	
5/9/2008	<0.02	
12/2/2008	<0.02	
4/8/2009	<0.02	
10/1/2009	<0.02	
4/14/2010	<0.02	
10/13/2010	<0.02	
4/6/2011	<0.02	
10/4/2011	<0.02	
4/10/2012	<0.02	
9/26/2012	<0.02	
3/12/2013	<0.02	
9/10/2013	<0.02	
3/4/2014	0.0026	
9/3/2014	0.00079 (J)	
4/21/2015	<0.02	
9/30/2015	0.0018 (J)	
3/23/2016	<0.02	
9/7/2016	<0.02	
3/27/2017	0.0014 (J)	
10/5/2017	<0.02	
3/15/2018	<0.02	
10/4/2018	0.0033 (J)	
4/9/2019		<0.02
10/1/2019		0.0049 (J)
3/27/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.02	
5/9/2007	0.0026	
7/17/2007	0.0043	
8/28/2007	<0.02	
11/7/2007	<0.02	
5/7/2008	<0.02	
12/3/2008	<0.02	
4/14/2009	<0.02	
10/1/2009	<0.02	
4/13/2010	<0.02	
10/12/2010	<0.02	
4/6/2011	<0.02	
10/12/2011	<0.02	
4/5/2012	<0.02	
9/19/2012	<0.02	
3/13/2013	<0.02	
9/10/2013	<0.02	
3/10/2014	0.0022 (J)	
9/3/2014	0.0013 (J)	
4/22/2015	0.0019 (J)	
9/30/2015	0.0037 (J)	
3/24/2016	<0.02	
9/8/2016	0.0024 (J)	
3/27/2017	<0.02	
10/5/2017	<0.02	
3/16/2018	<0.02	
10/5/2018	0.0029 (J)	
4/9/2019		0.0037 (J)
10/1/2019		0.006 (J)
3/30/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.02	
5/9/2007	0.0025	
7/17/2007	0.0035	
8/28/2007	<0.02	
11/7/2007	<0.02	
5/7/2008	<0.02	
12/4/2008	<0.02	
4/14/2009	<0.02	
10/2/2009	<0.02	
4/13/2010	0.0043	
10/12/2010	<0.02	
4/6/2011	<0.02	
10/12/2011	<0.02	
4/5/2012	<0.02	
9/25/2012	<0.02	
3/13/2013	<0.02	
9/11/2013	<0.02	
3/10/2014	0.0031	
9/9/2014	0.00098 (J)	
4/22/2015	0.0015 (J)	
9/30/2015	0.002 (J)	
3/24/2016	<0.02	
9/8/2016	0.0029 (J)	
3/27/2017	0.0019 (J)	
10/5/2017	0.0024 (J)	
3/15/2018	<0.02	
10/4/2018	0.013	
4/9/2019		<0.02
10/1/2019		0.0049 (J)
3/31/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.02	
5/9/2007	<0.02	
7/17/2007	<0.02	
8/29/2007	<0.02	
11/7/2007	<0.02	
5/7/2008	<0.02	
12/5/2008	<0.02	
4/14/2009	<0.02	
9/30/2009	<0.02	
4/13/2010	<0.02	
10/12/2010	<0.02	
10/12/2011	<0.02	
4/9/2012	<0.02	
9/25/2012	<0.02	
3/13/2013	<0.02	
9/11/2013	<0.02	
3/10/2014	0.0024 (J)	
9/9/2014	0.00078 (J)	
4/23/2015	<0.02	
9/30/2015	0.0016 (J)	
3/23/2016	<0.02	
9/8/2016	<0.02	
3/27/2017	0.0017 (J)	
10/5/2017	0.0016 (J)	
3/16/2018	<0.02	
10/5/2018	<0.02	
4/9/2019		<0.02
10/1/2019		0.0063 (J)
3/31/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.02	
5/9/2007	<0.02	
7/17/2007	0.0031	
8/29/2007	0.0056	
11/7/2007	0.0059	
5/7/2008	0.0059	
12/5/2008	<0.02	
4/27/2009	0.0051	
9/30/2009	0.0066	
4/13/2010	0.0041	
10/12/2010	0.004	
10/5/2011	0.0043	
4/10/2012	0.0108	
9/26/2012	0.0066	
3/13/2013	0.0035	
9/11/2013	0.005	
3/11/2014	0.005	
9/9/2014	0.0041	
9/30/2015	0.0031 (J)	
3/24/2016	0.00393 (J)	
9/8/2016	0.0047 (J)	
3/27/2017	0.0036 (J)	
10/5/2017	0.0065 (J)	
3/15/2018	0.0053 (J)	
10/4/2018	0.0077 (J)	
4/9/2019		0.0041 (J)
10/1/2019		0.0078 (J)
3/31/2020		<0.02



# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.02	
5/9/2007	0.0035	
7/17/2007	<0.02	
8/29/2007	<0.02	
11/7/2007	<0.02	
5/7/2008	<0.02	
12/5/2008	<0.02	
4/14/2009	<0.02	
9/30/2009	<0.02	
4/13/2010	<0.02	
10/12/2010	<0.02	
4/6/2011	<0.02	
10/5/2011	<0.02	
4/9/2012	<0.02	
9/25/2012	<0.02	
3/13/2013	<0.02	
9/11/2013	<0.02	
3/11/2014	0.0037	
9/9/2014	0.0006 (J)	
4/23/2015	<0.02	
9/30/2015	0.0021 (J)	
3/23/2016	<0.02	
9/8/2016	<0.02	
3/27/2017	<0.02	
10/5/2017	<0.02	
3/15/2018	<0.02	
10/4/2018	0.003 (J)	
4/9/2019		<0.02
10/1/2019		0.0054 (J)
3/31/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	0.0054	
5/9/2007	0.0041	
7/17/2007	0.005	
8/29/2007	0.0044	
11/7/2007	<0.02	
5/7/2008	<0.02	
12/5/2008	<0.02	
4/14/2009	<0.02	
10/1/2009	<0.02	
4/14/2010	<0.02	
10/13/2010	<0.02	
4/6/2011	<0.02	
10/12/2011	<0.02	
4/9/2012	<0.02	
9/19/2012	<0.02	
3/13/2013	<0.02	
9/10/2013	<0.02	
3/11/2014	0.0033	
9/3/2014	0.0014 (J)	
4/23/2015	0.0024 (J)	
9/30/2015	0.0041 (J)	
3/23/2016	<0.02	
9/8/2016	<0.02	
3/27/2017	0.0014 (J)	
10/5/2017	0.0014 (J)	
3/15/2018	0.0039 (J)	
10/5/2018	0.0048 (J)	
4/8/2019		0.0016 (J)
10/1/2019		0.0057 (J)
3/26/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	0.0064	
5/8/2007	<0.02	
7/6/2007	<0.02	
8/28/2007	0.0025	
11/6/2007	<0.02	
5/8/2008	<0.02	
12/3/2008	<0.02	
4/7/2009	0.0025	
10/1/2009	<0.02	
4/14/2010	<0.02	
10/14/2010	<0.02	
4/5/2011	0.0025	
10/12/2011	0.0037	
4/4/2012	<0.02	
9/24/2012	<0.02	
3/12/2013	<0.02	
9/10/2013	<0.02	
3/5/2014	0.0028	
9/9/2014	0.00058 (J)	
4/21/2015	0.0043	
9/29/2015	0.0031 (J)	
3/23/2016	0.00272 (J)	
9/7/2016	<0.02	
3/23/2017	0.0026 (J)	
10/4/2017	<0.02	
3/16/2018	<0.02	
10/4/2018	0.0028 (J)	
4/9/2019		<0.02
10/1/2019		0.0053 (J)
3/31/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.02	
5/9/2007	<0.02	
7/17/2007	<0.02	
8/28/2007	<0.02	
11/6/2007	<0.02	
5/8/2008	<0.02	
12/3/2008	<0.02	
4/7/2009	<0.02	
10/1/2009	<0.02	
4/13/2010	<0.02	
10/6/2010	<0.02	
4/5/2011	<0.02	
10/4/2011	<0.02	
4/3/2012	<0.02	
9/18/2012	<0.02	
3/12/2013	<0.02	
9/9/2013	<0.02	
3/5/2014	0.0026	
9/8/2014	0.00055 (J)	
4/22/2015	<0.02	
9/29/2015	0.0026 (J)	
3/23/2016	<0.02	
9/7/2016	0.0024 (J)	
3/23/2017	0.0035 (J)	
10/4/2017	<0.02	
3/16/2018	0.0029 (J)	
10/4/2018	0.0039 (J)	
4/8/2019		0.0013 (J)
10/1/2019		0.0056 (J)
3/31/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	45 (o)	
7/6/2007	16 (o)	
8/28/2007	11 (o)	
11/6/2007	8.3	
5/8/2008	5	
12/2/2008	3.2	
4/8/2009	2.4	
10/1/2009	1.9	
4/13/2010	1.9	
10/7/2010	1.6	
4/5/2011	1.1	
10/4/2011	1.1	
4/3/2012	0.75	
9/18/2012	0.88	
3/12/2013	0.23	
9/10/2013	0.36	
3/5/2014	0.33	
9/8/2014	0.47	
4/21/2015	0.27	
9/29/2015	0.359	
3/23/2016	0.102	
9/7/2016	0.24	
3/24/2017	0.0512	
10/4/2017	0.159	
3/15/2018	0.12	
10/4/2018	0.22	
4/8/2019		0.051
10/1/2019		0.12
3/30/2020		0.051

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	0.0038	
7/6/2007	<0.02	
8/28/2007	<0.02	
11/6/2007	<0.02	
5/8/2008	<0.02	
12/2/2008	<0.02	
4/8/2009	<0.02	
9/30/2009	<0.02	
4/13/2010	<0.02	
10/13/2010	<0.02	
4/5/2011	<0.02	
10/4/2011	<0.02	
4/3/2012	<0.02	
9/19/2012	<0.02	
3/12/2013	<0.02	
9/10/2013	<0.02	
3/5/2014	0.0028	
9/9/2014	0.0014 (J)	
4/22/2015	<0.02	
9/29/2015	0.0016 (J)	
3/23/2016	<0.02	
9/8/2016	<0.02	
3/24/2017	0.0031 (J)	
10/5/2017	<0.02	
3/14/2018	0.0053 (J)	
10/4/2018	0.0031 (J)	
4/8/2019		0.0012 (J)
10/1/2019		0.0055 (J)
3/27/2020		<0.02

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/28/2020 4:08 PM View: State Parameters

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.02	
5/8/2007	0.0027	
7/6/2007	0.0032	
8/28/2007	0.0026	
11/6/2007	<0.02	
5/8/2008	<0.02	
12/2/2008	<0.02	
4/8/2009	<0.02	
9/30/2009	<0.02	
4/13/2010	<0.02	
10/13/2010	<0.02	
4/5/2011	<0.02	
10/4/2011	<0.02	
4/4/2012	<0.02	
9/19/2012	<0.02	
3/12/2013	<0.02	
9/10/2013	<0.02	
3/5/2014	0.0029	
9/3/2014	0.0011 (J)	
4/21/2015	<0.02	
9/29/2015	0.0034 (J)	
3/23/2016	<0.02	
9/8/2016	<0.02	
3/27/2017	0.0014 (J)	
10/5/2017	0.0013 (J)	
3/15/2018	<0.02	
10/5/2018	0.0044 (J)	
4/8/2019		0.0016 (J)
10/1/2019		0.0052 (J)
3/27/2020		<0.02

FIGURE E.



# Trend Test Summary (State) - Significant Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/12/2020, 2:39 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>
Barium (mg/L)	GWA-2 (bg)	0.004101	314	184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3 (bg)	-0.004717	-334	-184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	-0.00353	-218	-184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.002061	281	176	Yes	34	0	n/a	n/a	0.01	NP

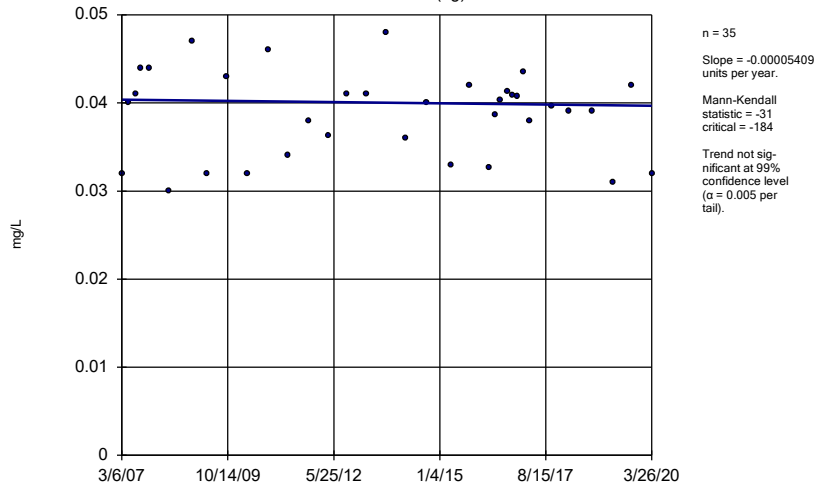
# Trend Test Summary (State) - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/12/2020, 2:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1 (bg)	-0.00005409	-31	-184	No	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-11 (bg)	-0.0001551	-95	-184	No	35	0	n/a	n/a	0.01	NP
<b>Barium (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.004101</b>	<b>314</b>	<b>184</b>	<b>Yes</b>	<b>35</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Barium (mg/L)	GWA-3 (bg)	-0.004717	-334	-184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	-0.00353	-218	-184	Yes	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.002061	281	176	Yes	34	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-8	0.0003024	47	184	No	35	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

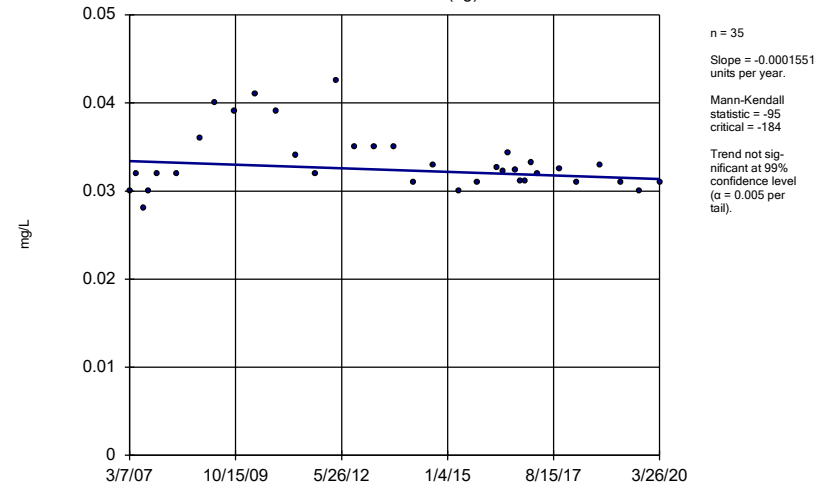
GWA-1 (bg)



Constituent: Barium Analysis Run 8/12/2020 2:38 PM View: Trend Tests - State PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

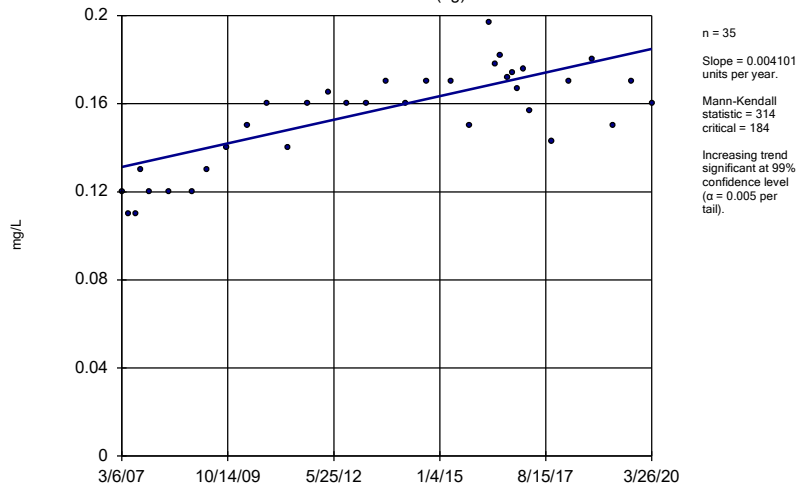
GWA-11 (bg)



Constituent: Barium Analysis Run 8/12/2020 2:38 PM View: Trend Tests - State PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

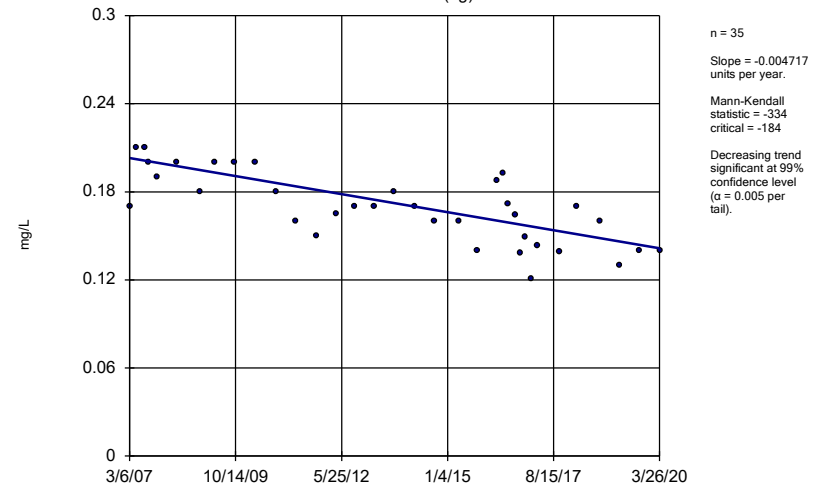
GWA-2 (bg)



Constituent: Barium Analysis Run 8/12/2020 2:38 PM View: Trend Tests - State PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

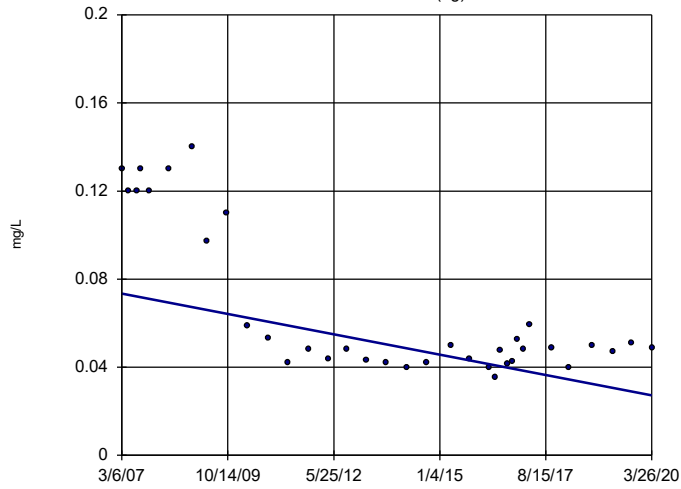
GWA-3 (bg)



Constituent: Barium Analysis Run 8/12/2020 2:38 PM View: Trend Tests - State PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-4 (bg)

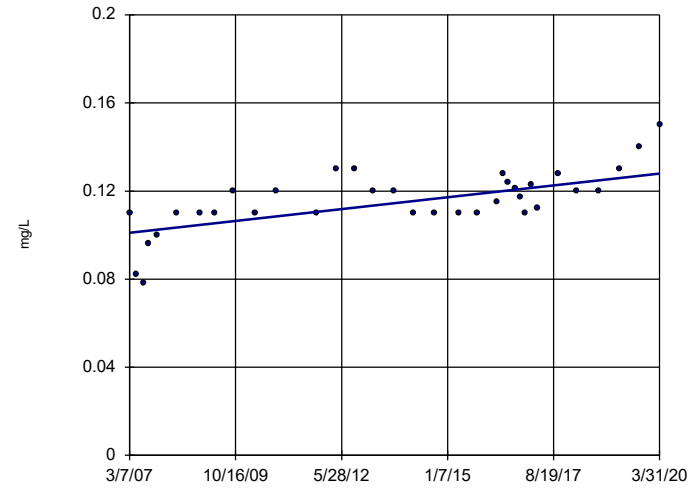


n = 35  
 Slope = -0.00353  
 units per year.  
 Mann-Kendall  
 statistic = -218  
 critical = -184  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Barium Analysis Run 8/12/2020 2:38 PM View: Trend Tests - State PLs  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWC-20

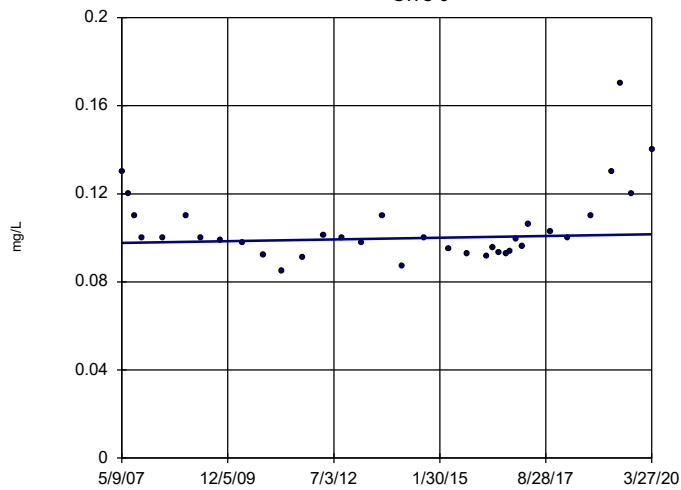


n = 34  
 Slope = 0.002061  
 units per year.  
 Mann-Kendall  
 statistic = 281  
 critical = 176  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Barium Analysis Run 8/12/2020 2:38 PM View: Trend Tests - State PLs  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWC-8



n = 35  
 Slope = 0.0003024  
 units per year.  
 Mann-Kendall  
 statistic = 47  
 critical = 184  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Barium Analysis Run 8/12/2020 2:38 PM View: Trend Tests - State PLs  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

FIGURE F.

# Federal Intrawell Prediction Limit Summary - Significant Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 7:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-19	49.63	n/a	3/31/2020	52.3	Yes	13	43.91	2.178	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-20	63.52	n/a	3/31/2020	63.6	Yes	13	52.64	4.139	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-7	2.458	n/a	3/30/2020	9.2	Yes	13	1.654	0.3056	0	None	No	0.0006269	Param Intra 1 of 2
pH (s.u.)	GWC-10	7.697	6.845	3/27/2020	6.82	Yes	13	7.271	0.162	0	None	No	0.0003135	Param Intra 1 of 2

# Federal Intrawell Prediction Limit Summary - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 7:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWA-1	0.05	n/a	3/26/2020	0.022J	No	13	n/a	n/a	15.38	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Boron (mg/L)	GWA-11	0.04165	n/a	3/26/2020	0.041J	No	13	0.0356	0.002301	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWA-2	0.1059	n/a	3/26/2020	0.092J	No	13	0.08618	0.007513	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWA-3	0.195	n/a	3/26/2020	0.14	No	13	0.1502	0.01706	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWA-4	0.1507	n/a	3/26/2020	0.086J	No	13	0.09276	0.02204	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-10	0.04348	n/a	3/27/2020	0.04J	No	13	0.03321	0.003909	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-18	0.1547	n/a	3/30/2020	0.13	No	13	0.1292	0.009697	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-19	0.2048	n/a	3/31/2020	0.18	No	13	0.1773	0.01047	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-20	0.05	n/a	3/31/2020	0.024J	No	13	n/a	n/a	7.692	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Boron (mg/L)	GWC-21	0.1406	n/a	3/31/2020	0.022J	No	13	0.199	0.06698	0	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-22	0.08272	n/a	3/31/2020	0.067J	No	13	0.06841	0.005445	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-23	0.1347	n/a	3/26/2020	0.042J	No	13	0.191	0.067	7.692	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-5	0.08013	n/a	3/31/2020	0.057J	No	13	0.05944	0.007872	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-6	0.04531	n/a	3/31/2020	0.091J	No	14	0.03949	0.002264	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-7	0.07265	n/a	3/30/2020	0.049J	No	13	0.05612	0.006289	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-8	0.055	n/a	3/27/2020	0.056J	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Boron (mg/L)	GWC-9	0.05	n/a	3/27/2020	0.018J	No	13	n/a	n/a	7.692	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Calcium (mg/L)	GWA-1	20.51	n/a	3/26/2020	14	No	13	15.95	1.735	7.692	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWA-11	27.27	n/a	3/26/2020	22.4	No	13	19.82	2.834	7.692	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWA-2	51.4	n/a	3/26/2020	43.2	No	13	41.93	3.601	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWA-3	94.16	n/a	3/26/2020	78.7	No	13	75.85	6.964	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWA-4	130.7	n/a	3/26/2020	87.4	No	13	88.18	16.18	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-10	60.36	n/a	3/27/2020	22.9	No	15	41.41	7.541	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-18	46.36	n/a	3/30/2020	45.7	No	14	40.09	2.439	0	None	No	0.0006269	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GWC-19</b>	<b>49.63</b>	<b>n/a</b>	<b>3/31/2020</b>	<b>52.3</b>	<b>Yes</b>	<b>13</b>	<b>43.91</b>	<b>2.178</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>GWC-20</b>	<b>63.52</b>	<b>n/a</b>	<b>3/31/2020</b>	<b>63.6</b>	<b>Yes</b>	<b>13</b>	<b>52.64</b>	<b>4.139</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GWC-21	95.47	n/a	3/31/2020	25.6	No	15	48.65	18.63	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-22	52.66	n/a	3/31/2020	51.5	No	13	47.68	1.891	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-23	45.95	n/a	3/26/2020	44.7	No	13	36.75	3.5	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-5	90.26	n/a	3/31/2020	84.2	No	13	73.43	6.404	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-6	71.95	n/a	3/31/2020	70.6	No	13	62.28	3.678	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-7	74.21	n/a	3/30/2020	47.8	No	13	36.61	14.31	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-8	90.82	n/a	3/27/2020	87.3	No	15	63.08	11.04	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-9	39.77	n/a	3/27/2020	34.3	No	13	35.16	1.751	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-1	1.55	n/a	3/26/2020	1.1	No	13	1.179	0.1409	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-11	2.158	n/a	3/26/2020	1.4	No	13	1.493	0.253	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-2	3.162	n/a	3/26/2020	2	No	13	2.431	0.2783	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-3	4.883	n/a	3/26/2020	2.6	No	13	3.95	0.3552	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWA-4	11.19	n/a	3/26/2020	5.4	No	13	6.268	1.874	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-10	2.285	n/a	3/27/2020	1.2	No	15	1.609	0.269	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-18	1.907	n/a	3/30/2020	1	No	13	1.385	0.1987	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-19	2.57	n/a	3/31/2020	1.3	No	13	1.915	0.2492	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-20	2.396	n/a	3/31/2020	1.1	No	14	1.7	0.2708	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-21	3.962	n/a	3/31/2020	1.5	No	14	2.712	0.4862	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-22	2.011	n/a	3/31/2020	1	No	13	1.555	0.1736	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-23	2.104	n/a	3/26/2020	0.63J	No	13	1.552	0.2101	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-5	4.279	n/a	3/31/2020	2	No	13	3.029	0.4757	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-6	2.458	n/a	3/31/2020	1.5	No	13	1.955	0.1913	0	None	No	0.0006269	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GWC-7</b>	<b>2.458</b>	<b>n/a</b>	<b>3/30/2020</b>	<b>9.2</b>	<b>Yes</b>	<b>13</b>	<b>1.654</b>	<b>0.3056</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GWC-8	3.306	n/a	3/27/2020	2.5	No	15	1.936	0.545	0	None	No	0.0006269	Param Intra 1 of 2

# Federal Intrawell Prediction Limit Summary - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 7:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GWC-9	1.823	n/a	3/27/2020	0.74J	No	13	1.195	0.239	0	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-1	0.2142	n/a	3/26/2020	0.082J	No	13	0.1055	0.04138	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-11	0.1844	n/a	3/26/2020	0.057J	No	13	0.07757	0.04064	23.08	Kaplan-Meier	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-2	0.267	n/a	3/26/2020	0.12J	No	13	0.1289	0.05253	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-3	0.5357	n/a	3/26/2020	0.09J	No	13	0.2393	0.1127	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWA-4	0.5087	n/a	3/26/2020	0.089J	No	13	0.2241	0.1082	0	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-10	0.2027	n/a	3/27/2020	0.15ND	No	13	0.1064	0.03664	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-18	0.2327	n/a	3/30/2020	0.1J	No	13	0.1467	0.03273	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-19	0.2758	n/a	3/31/2020	0.099J	No	13	0.1547	0.04606	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-20	0.2054	n/a	3/31/2020	0.054J	No	13	0.09322	0.0427	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-21	0.252	n/a	3/31/2020	0.15ND	No	13	0.09554	0.05953	15.38	Kaplan-Meier	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-22	0.1652	n/a	3/31/2020	0.055J	No	13	0.09188	0.0279	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-23	0.1978	n/a	3/26/2020	0.064J	No	13	0.1127	0.03238	7.692	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-5	0.4044	n/a	3/31/2020	0.15ND	No	13	0.4643	0.1047	15.38	Kaplan-Meier	x^(1/3)	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-6	0.3208	n/a	3/31/2020	0.053J	No	13	0.1139	0.07868	15.38	Kaplan-Meier	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-7	0.548	n/a	3/30/2020	0.16J	No	13	0.2598	0.1097	0	None	No	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-8	0.4854	n/a	3/27/2020	0.12J	No	14	0.4306	0.1035	0	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Fluoride (mg/L)	GWC-9	0.1929	n/a	3/27/2020	0.078J	No	13	0.09607	0.03684	7.692	None	No	0.0006269	Param Intra 1 of 2
pH (s.u.)	GWA-1	7.414	6.463	3/26/2020	7.02	No	13	6.938	0.1807	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWA-11	7.075	6.309	3/26/2020	6.83	No	13	6.692	0.1457	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWA-2	7.273	6.46	3/26/2020	7.07	No	13	6.867	0.1547	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWA-3	7.238	6.227	3/26/2020	6.87	No	13	6.732	0.1922	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWA-4	7.246	6.263	3/26/2020	6.74	No	13	6.755	0.1869	0	None	No	0.0003135	Param Intra 1 of 2
<b>pH (s.u.)</b>	<b>GWC-10</b>	<b>7.697</b>	<b>6.845</b>	<b>3/27/2020</b>	<b>6.82</b>	<b>Yes</b>	<b>13</b>	<b>7.271</b>	<b>0.162</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0003135</b>	<b>Param Intra 1 of 2</b>
pH (s.u.)	GWC-18	7.781	7.39	3/30/2020	7.65	No	13	7.585	0.07423	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-19	7.732	7.179	3/31/2020	7.62	No	13	7.455	0.1052	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-20	7.588	6.958	3/31/2020	7.57	No	15	7.273	0.1253	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-21	7.759	5.557	3/31/2020	6.33	No	13	6.658	0.4189	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-22	7.968	7.278	3/31/2020	7.8	No	14	7.623	0.1341	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-23	7.564	6.735	3/26/2020	6.88	No	13	7.149	0.1578	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-5	7.288	6.348	3/31/2020	6.82	No	13	6.818	0.1788	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-6	7.369	6.632	3/31/2020	7.17	No	13	7.001	0.1401	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-7	6.623	5.502	3/30/2020	6.48	No	13	6.062	0.2132	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-8	7.808	6.743	3/27/2020	7.01	No	15	7.275	0.2119	0	None	No	0.0003135	Param Intra 1 of 2
pH (s.u.)	GWC-9	7.362	6.212	3/27/2020	7.11	No	13	6.787	0.2186	0	None	No	0.0003135	Param Intra 1 of 2
Sulfate (mg/L)	GWA-1	5.454	n/a	3/26/2020	5	No	13	4.79	0.2524	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWA-11	15.5	n/a	3/26/2020	10.8	No	13	12.58	1.108	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWA-2	20.34	n/a	3/26/2020	15.6	No	13	14.94	2.053	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWA-3	231.1	n/a	3/26/2020	95.8	No	13	131.7	37.85	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWA-4	348.3	n/a	3/26/2020	128	No	13	192.8	59.18	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-10	46.25	n/a	3/27/2020	10.8	No	14	4.162	1.026	0	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-18	14.99	n/a	3/30/2020	9.7	No	13	10.94	1.541	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-19	20.78	n/a	3/31/2020	17.8	No	13	16.18	1.748	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-20	58.56	n/a	3/31/2020	53.6	No	18	35.78	9.504	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-21	57.26	n/a	3/31/2020	29.9	No	13	30.96	10.01	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-22	14	n/a	3/31/2020	10.9	No	13	7.792	2.363	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-23	43	n/a	3/26/2020	14.5	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GWC-5	159.3	n/a	3/31/2020	92.6	No	13	9.222	1.293	0	None	sqrt(x)	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-6	150.6	n/a	3/31/2020	106	No	17	109.2	17.06	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-7	189.7	n/a	3/30/2020	64.6	No	13	114.7	28.53	0	None	No	0.0006269	Param Intra 1 of 2



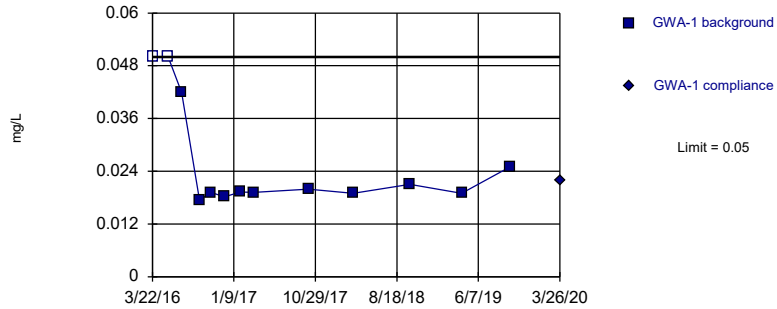
# Federal Intrawell Prediction Limit Summary - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 7:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWC-8	62.67	n/a	3/27/2020	31.5	No	13	42.48	7.682	0	None	No	0.0006269	Param Intra 1 of 2
Sulfate (mg/L)	GWC-9	85.53	n/a	3/27/2020	54	No	14	69.87	6.092	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-1	175.9	n/a	3/26/2020	73	No	13	105.2	26.93	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-11	186	n/a	3/26/2020	76	No	13	128.5	21.88	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-2	274.9	n/a	3/26/2020	222	No	13	220.5	20.67	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-3	682.3	n/a	3/26/2020	450	No	13	7.827	0.3714	0	None	x^(1/3)	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-4	772.9	n/a	3/26/2020	466	No	13	531.9	91.69	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-10	281.6	n/a	3/27/2020	118	No	13	184.1	37.09	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-18	427	n/a	3/30/2020	217	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-19	393	n/a	3/31/2020	233	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	306.2	n/a	3/31/2020	267	No	13	229.2	29.3	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	417.6	n/a	3/31/2020	111	No	15	203.2	85.29	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	324	n/a	3/31/2020	195	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-23	313.1	n/a	3/26/2020	193	No	13	197.3	44.03	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-5	520.9	n/a	3/31/2020	408	No	13	395	47.9	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-6	439.1	n/a	3/31/2020	349	No	15	333.5	42.03	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-7	369	n/a	3/30/2020	216	No	13	271.2	37.22	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-8	428.8	n/a	3/27/2020	329	No	15	269.7	63.28	0	None	No	0.0006269	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	326	n/a	3/27/2020	192	No	13	235.2	34.54	0	None	No	0.0006269	Param Intra 1 of 2

Within Limit

Prediction Limit  
 Intrawell Non-parametric

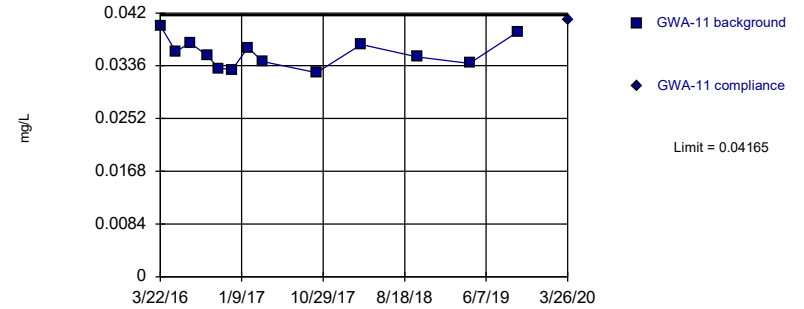


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. 15.38% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

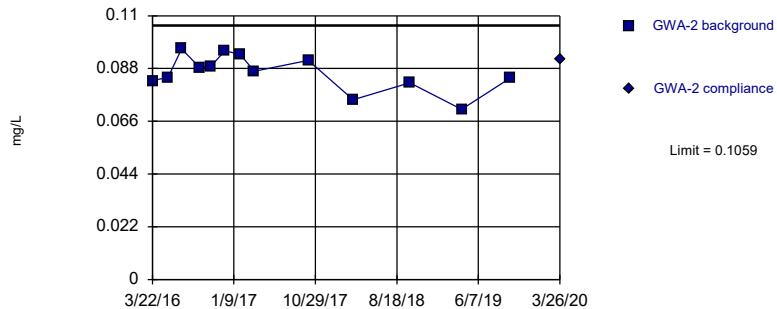


Background Data Summary: Mean=0.0356, Std. Dev.=0.002301, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9579, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

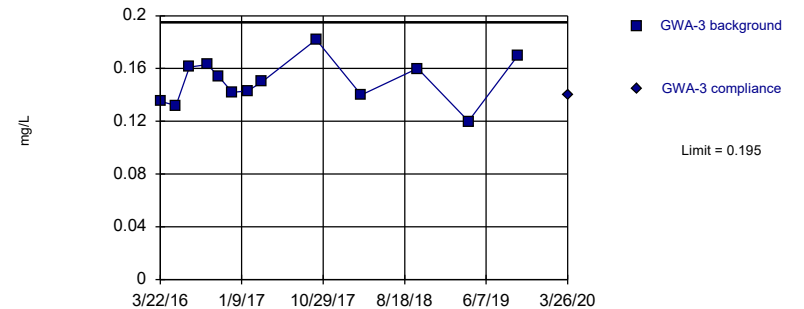


Background Data Summary: Mean=0.08618, Std. Dev.=0.007513, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.951, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

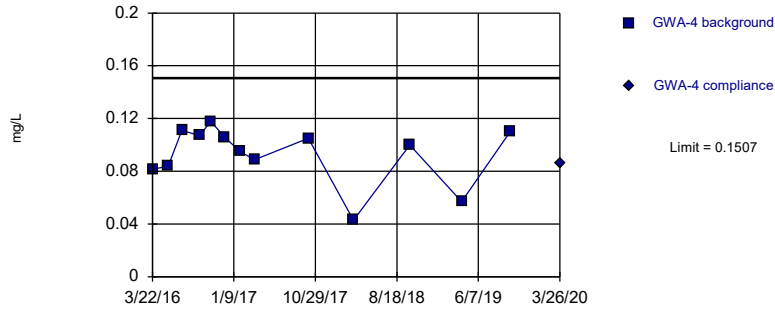
Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=0.1502, Std. Dev.=0.01706, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9892, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

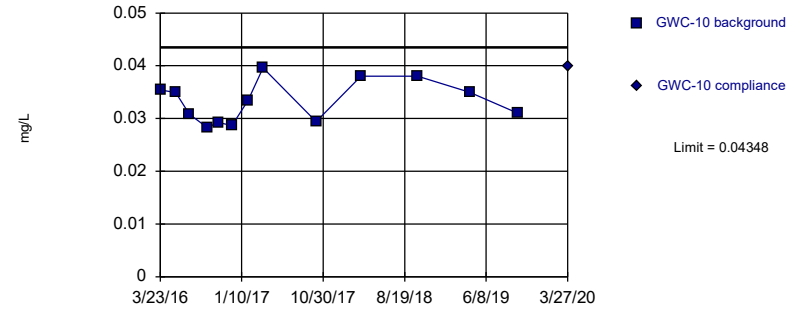
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.09276, Std. Dev.=0.02204, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8751, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

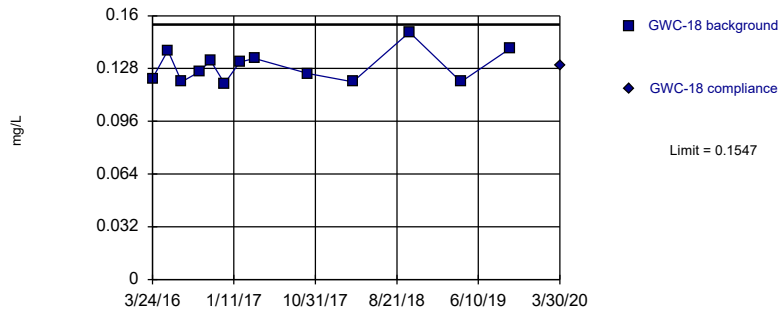
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.03321, Std. Dev.=0.003909, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.917, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

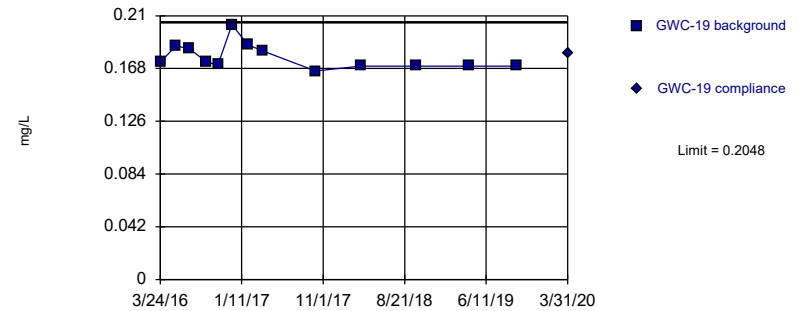
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1292, Std. Dev.=0.009697, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8975, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

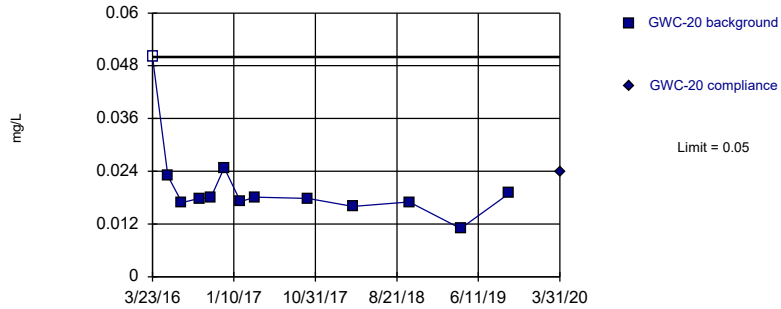


Background Data Summary: Mean=0.1773, Std. Dev.=0.01047, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8362, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Non-parametric

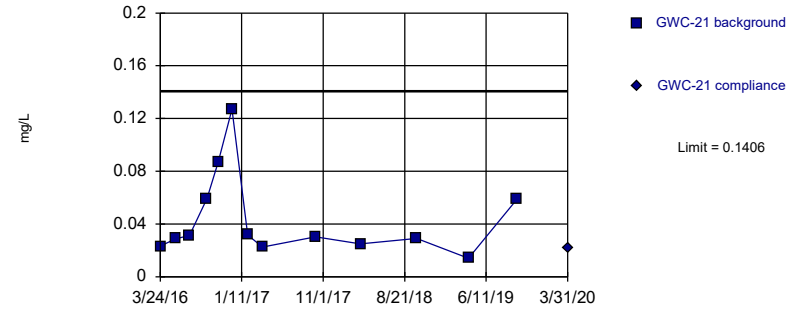


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. 7.692% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

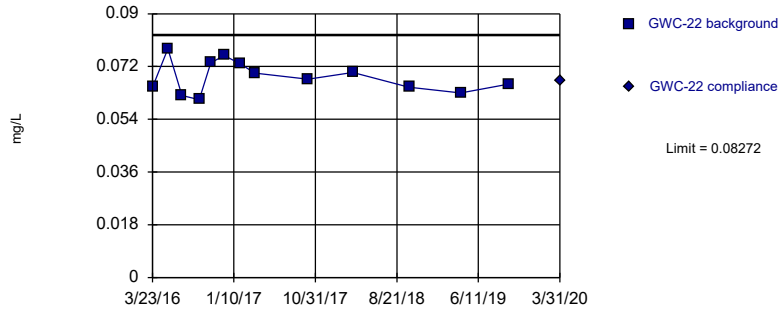


Background Data Summary (based on square root transformation): Mean=0.199, Std. Dev.=0.06698, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8469, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

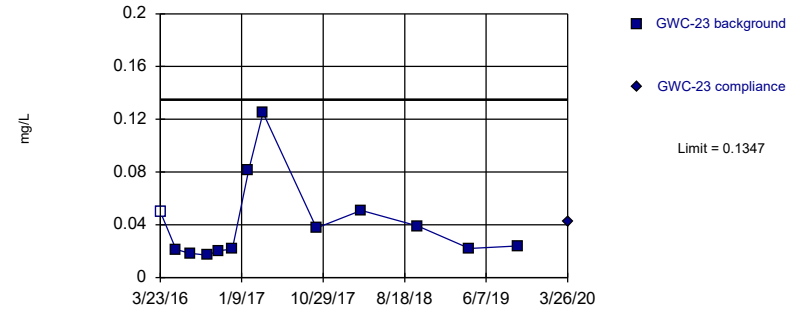


Background Data Summary: Mean=0.06841, Std. Dev.=0.005445, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9602, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

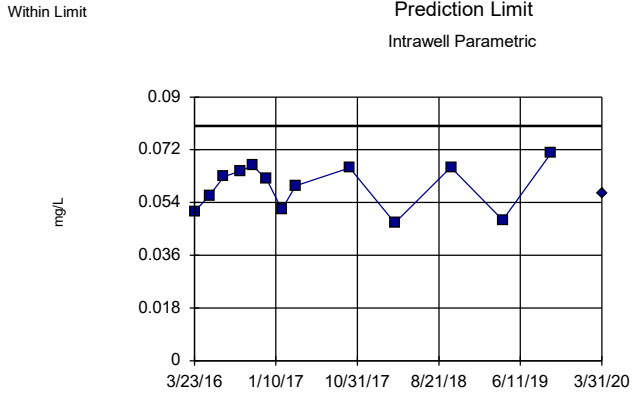
Within Limit

Prediction Limit  
 Intrawell Parametric



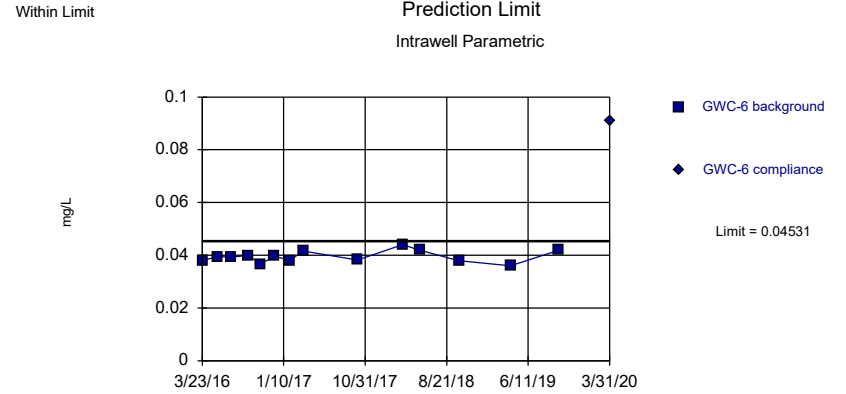
Background Data Summary (based on square root transformation): Mean=0.191, Std. Dev.=0.067, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8251, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



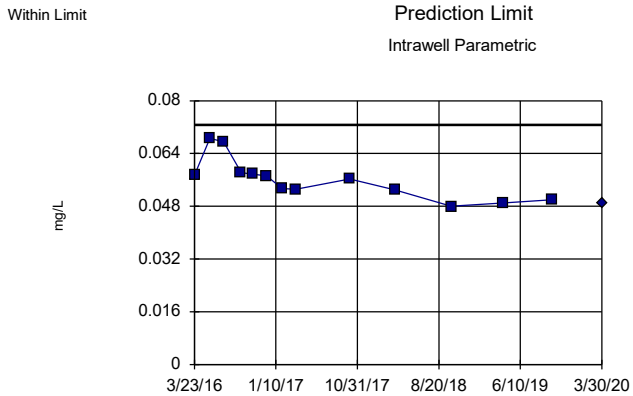
Background Data Summary: Mean=0.05944, Std. Dev.=0.007872, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9224, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



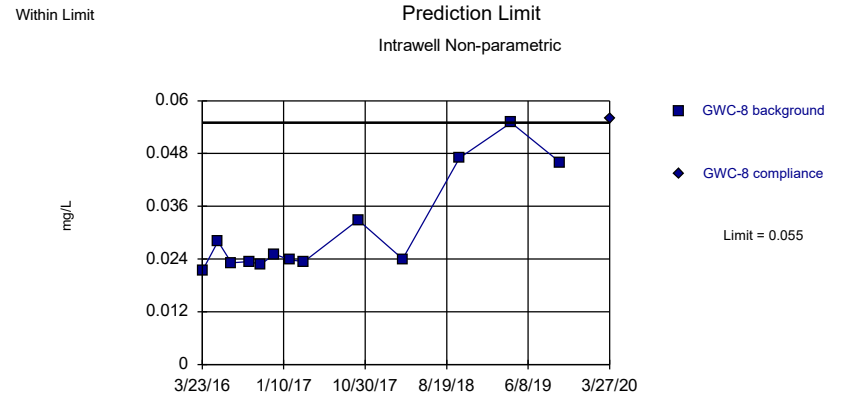
Background Data Summary: Mean=0.03949, Std. Dev.=0.002264, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9607, critical = 0.825. Kappa = 2.571 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



Background Data Summary: Mean=0.05612, Std. Dev.=0.006289, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8973, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

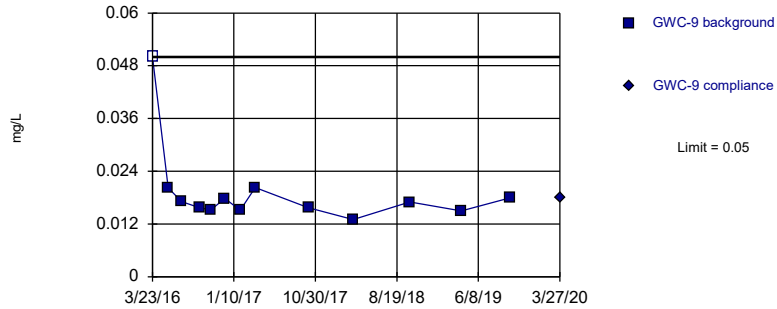


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

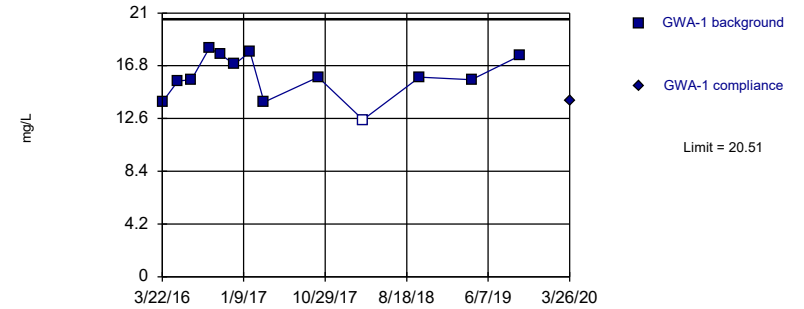


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. 7.692% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Boron Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

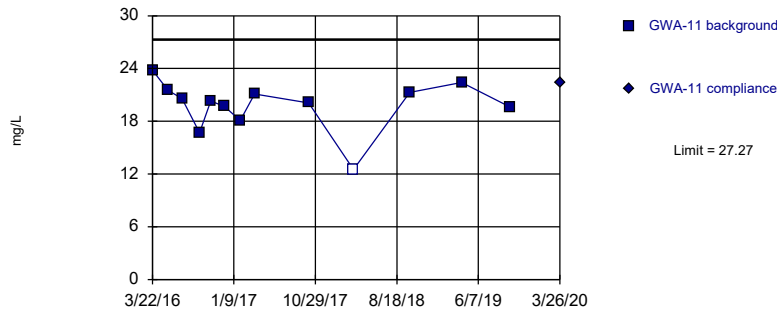


Background Data Summary: Mean=15.95, Std. Dev.=1.735, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9268, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

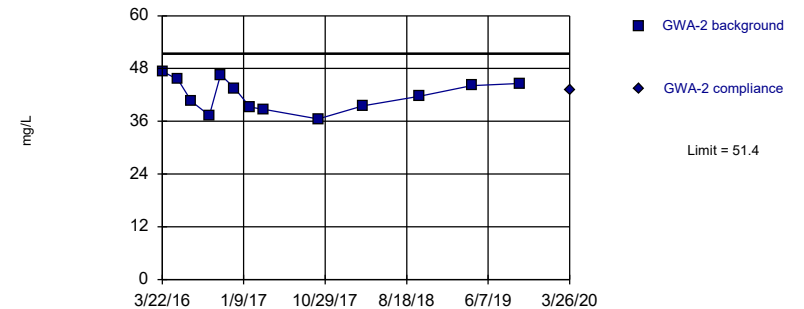


Background Data Summary: Mean=19.82, Std. Dev.=2.834, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.886, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

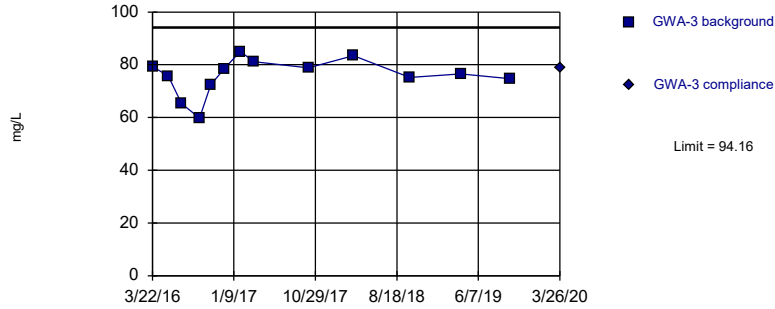
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=41.93, Std. Dev.=3.601, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9508, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

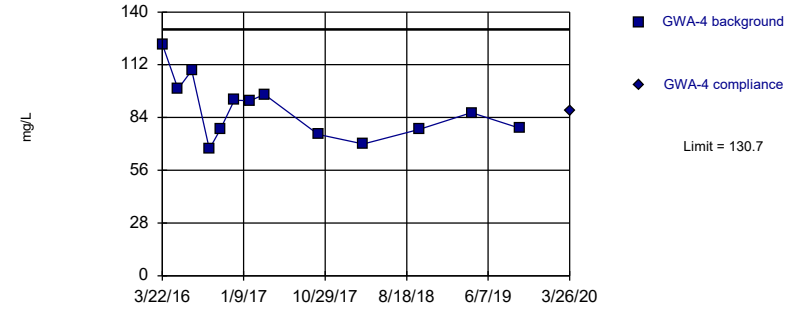
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=75.85, Std. Dev.=6.964, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9097, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

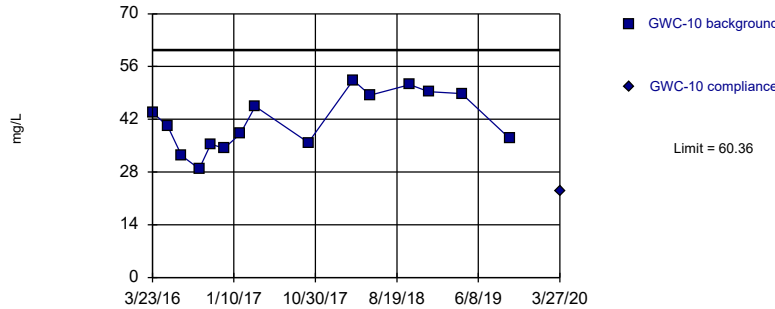
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=88.18, Std. Dev.=16.18, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9408, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

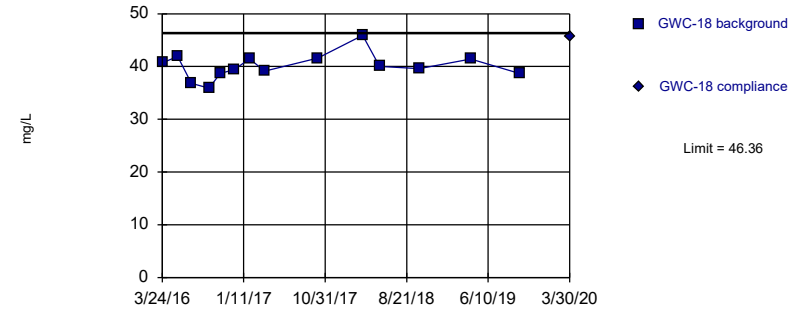
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=41.41, Std. Dev.=7.541, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9378, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

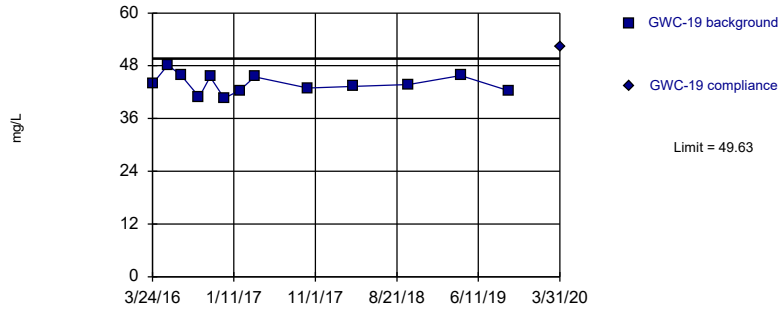


Background Data Summary: Mean=40.09, Std. Dev.=2.439, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9453, critical = 0.825. Kappa = 2.571 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

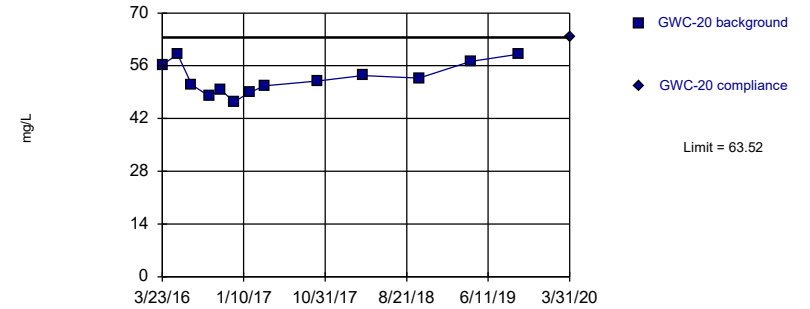


Background Data Summary: Mean=43.91, Std. Dev.=2.178, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9602, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

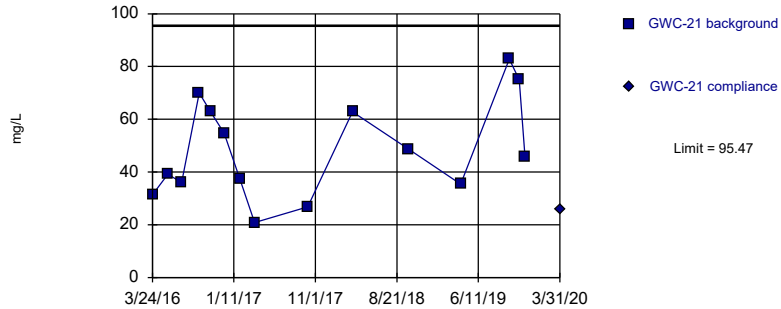


Background Data Summary: Mean=52.64, Std. Dev.=4.139, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

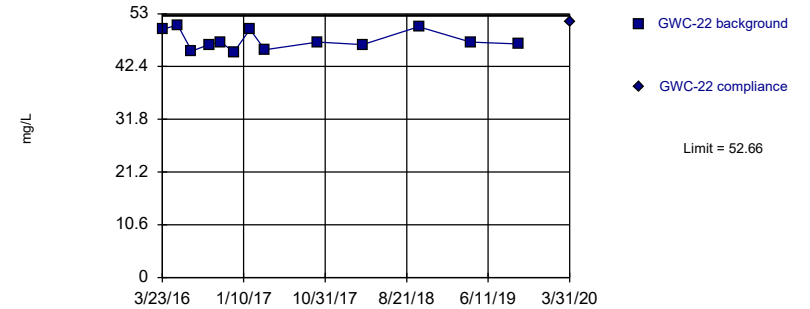


Background Data Summary: Mean=48.65, Std. Dev.=18.63, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9559, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

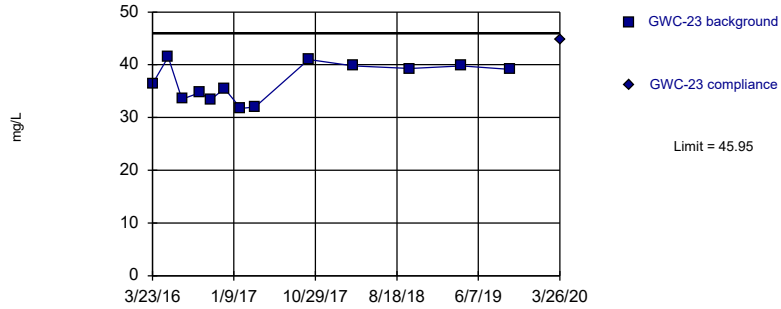


Background Data Summary: Mean=47.68, Std. Dev.=1.891, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8721, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:58 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



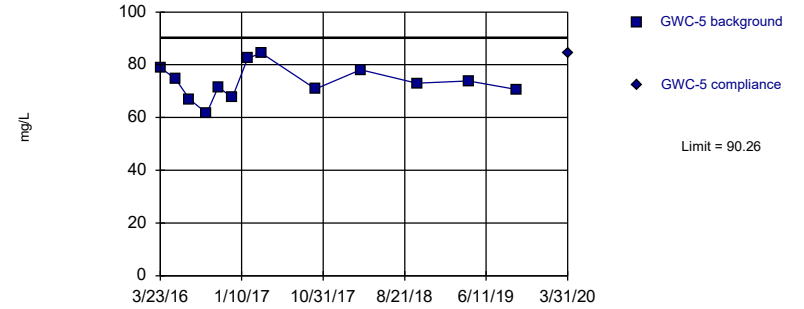
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=36.75, Std. Dev.=3.5, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9096, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

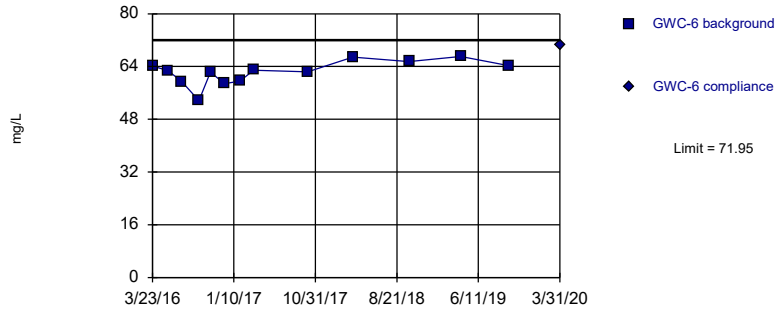
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=73.43, Std. Dev.=6.404, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9816, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

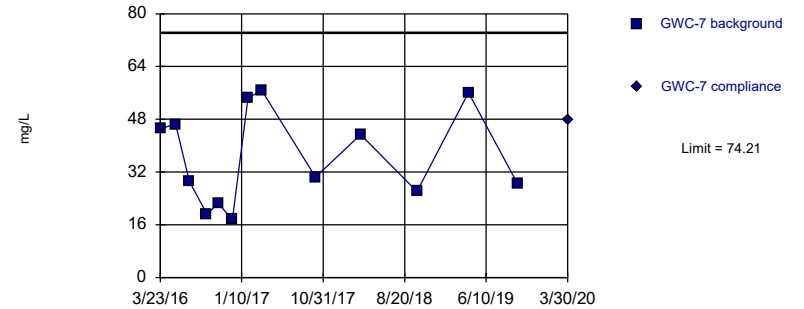
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=62.28, Std. Dev.=3.678, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9288, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

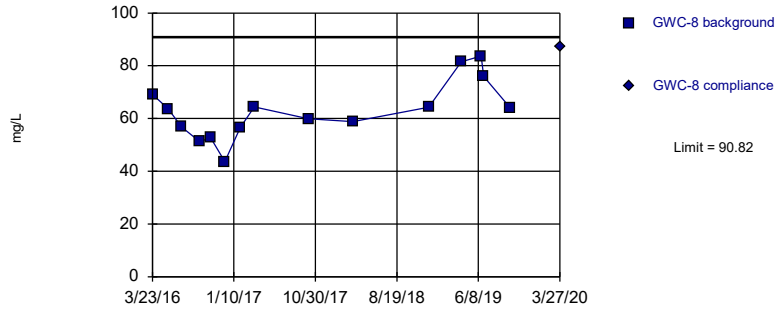


Background Data Summary: Mean=36.61, Std. Dev.=14.31, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

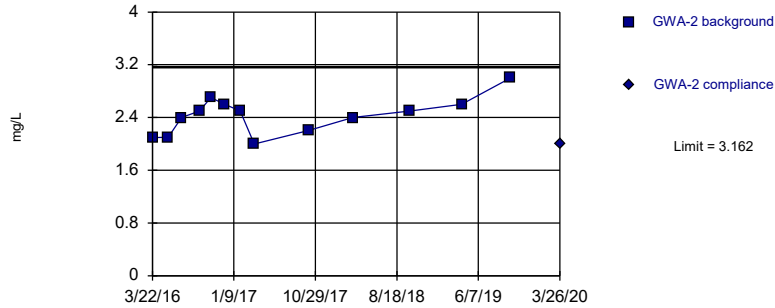
Constituent: Calcium Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



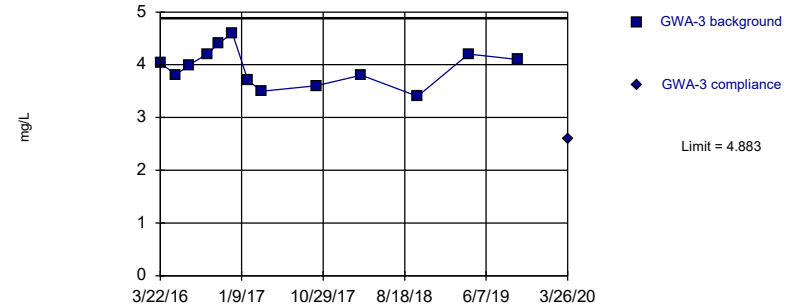
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.431, Std. Dev.=0.2783, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9538, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

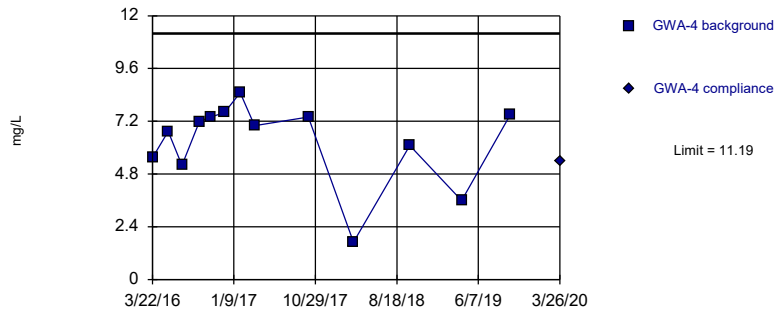
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=3.95, Std. Dev.=0.3552, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9788, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

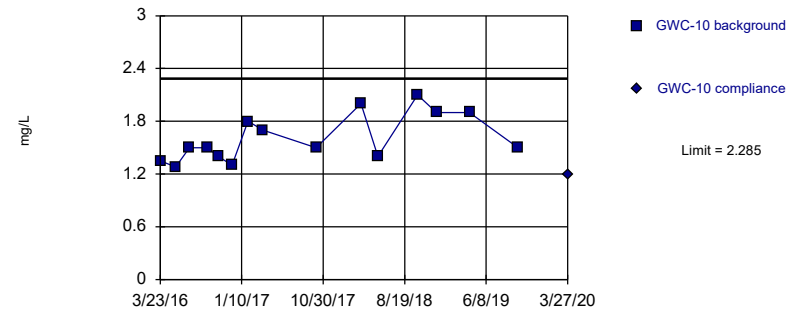
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.268, Std. Dev.=1.874, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.858, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

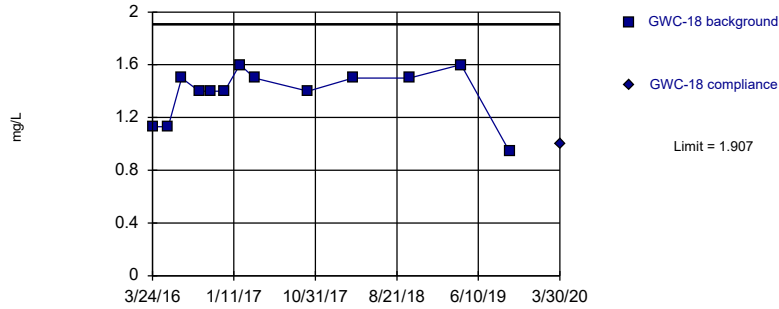


Background Data Summary: Mean=1.609, Std. Dev.=0.269, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9026, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

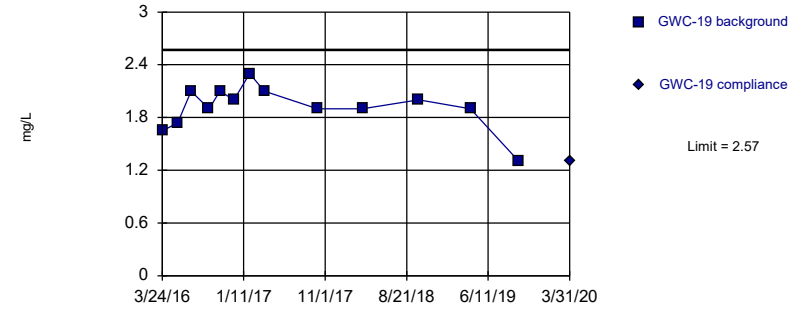


Background Data Summary: Mean=1.385, Std. Dev.=0.1987, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8442, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

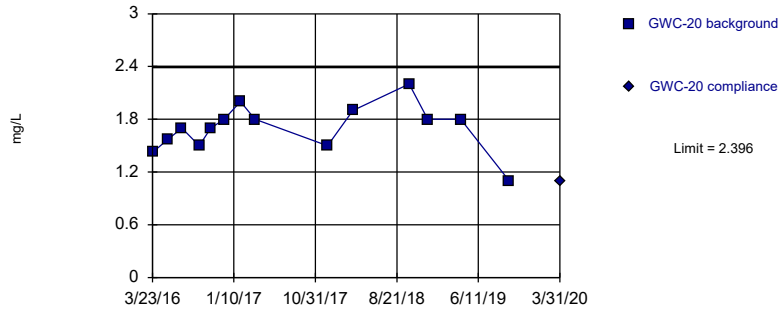


Background Data Summary: Mean=1.915, Std. Dev.=0.2492, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

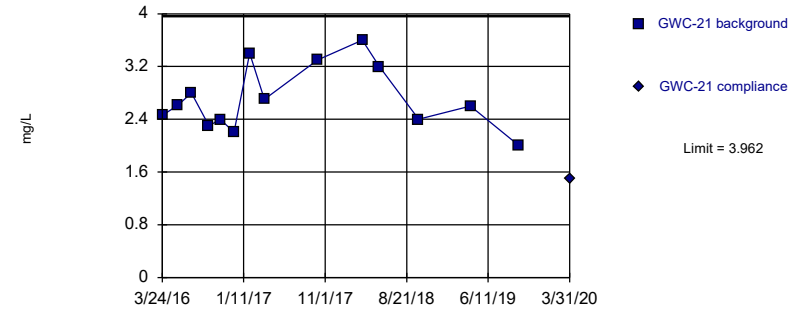


Background Data Summary: Mean=1.7, Std. Dev.=0.2708, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.825. Kappa = 2.571 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

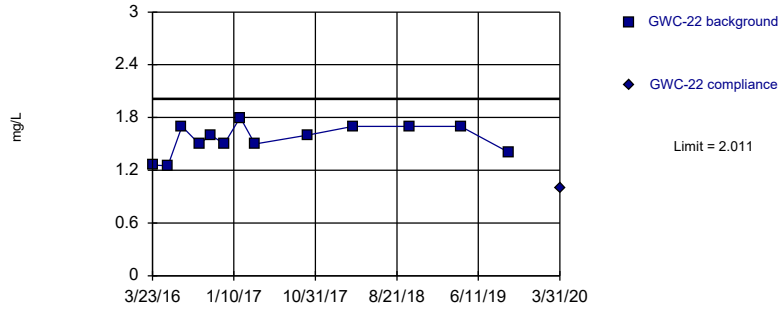
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.712, Std. Dev.=0.4862, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.825. Kappa = 2.571 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

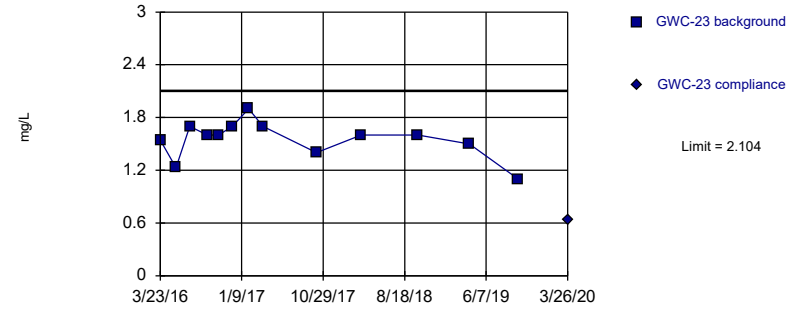
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.555, Std. Dev.=0.1736, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9146, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

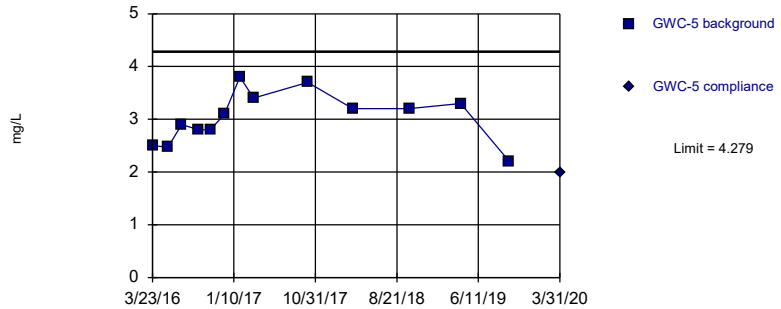
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.552, Std. Dev.=0.2101, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9193, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

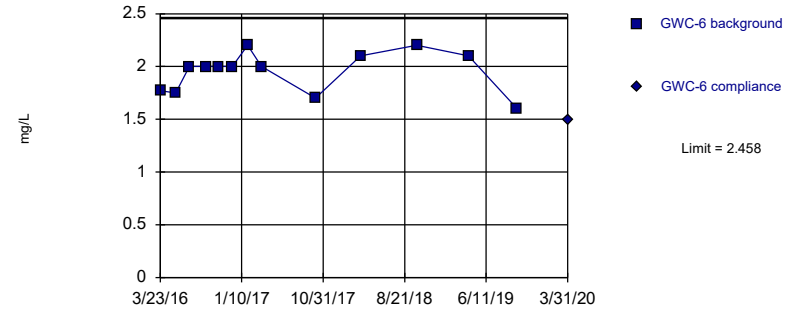
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=3.029, Std. Dev.=0.4757, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9758, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

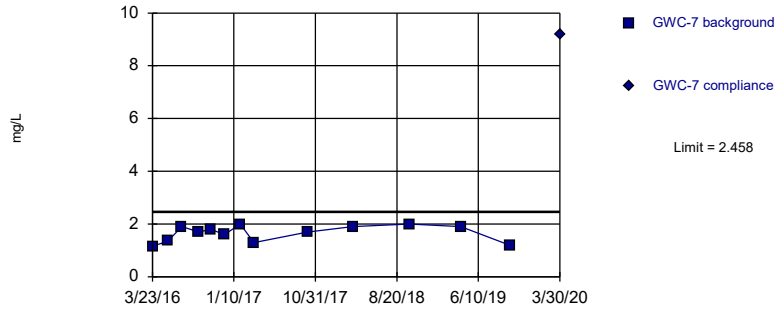


Background Data Summary: Mean=1.955, Std. Dev.=0.1913, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8991, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

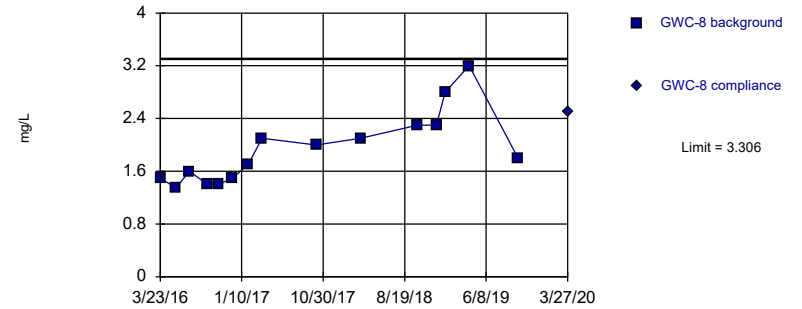


Background Data Summary: Mean=1.654, Std. Dev.=0.3056, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8832, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

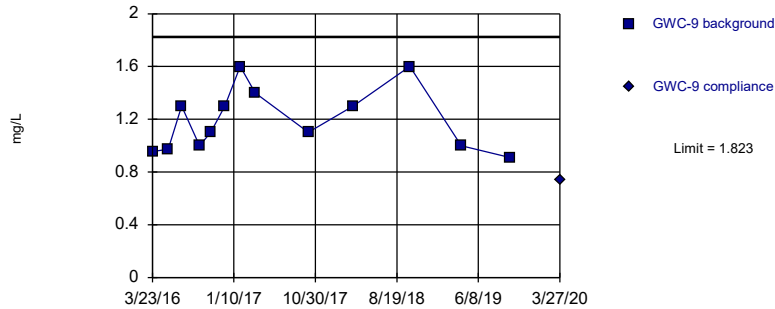


Background Data Summary: Mean=1.936, Std. Dev.=0.545, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8956, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

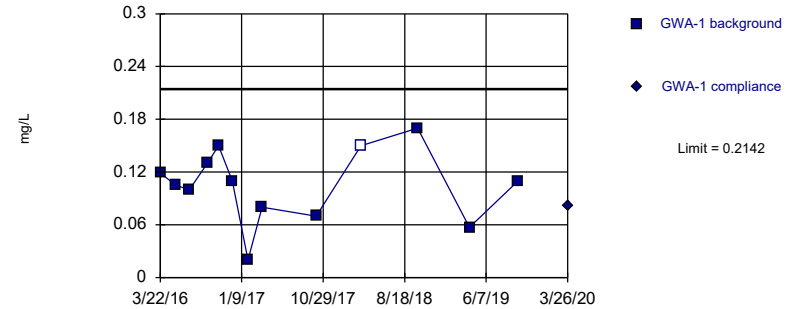


Background Data Summary: Mean=1.195, Std. Dev.=0.239, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8925, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

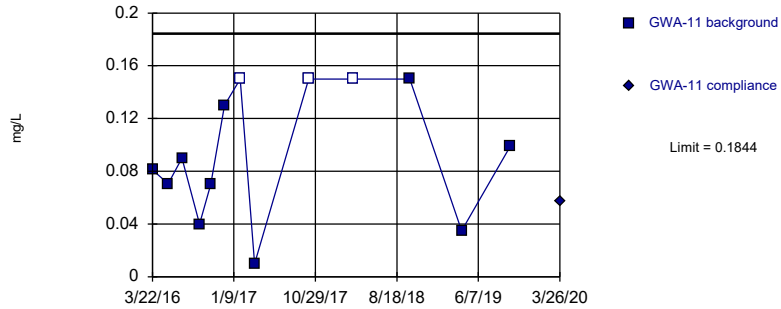


Background Data Summary: Mean=0.1055, Std. Dev.=0.04138, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9745, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

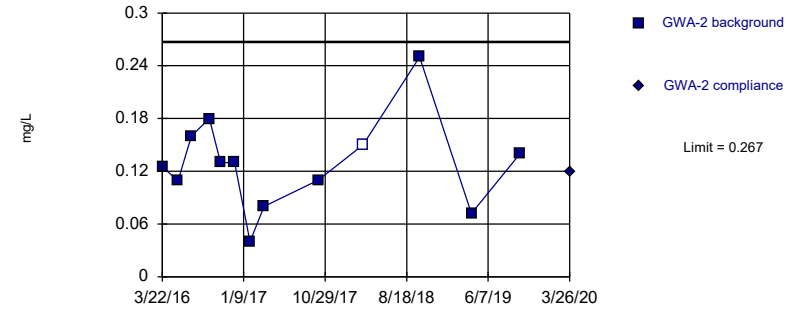


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.07757, Std. Dev.=0.04064, n=13, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.905, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

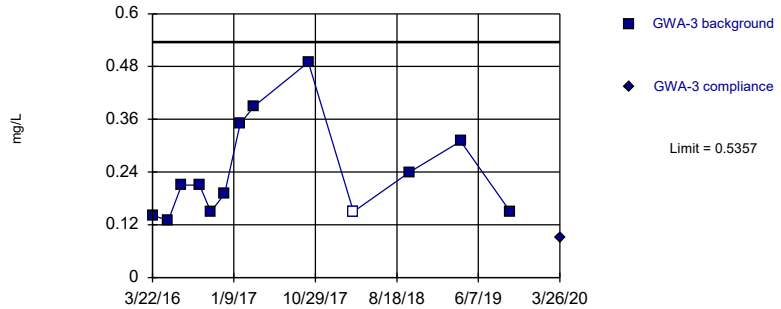


Background Data Summary: Mean=0.1289, Std. Dev.=0.05253, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.96, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

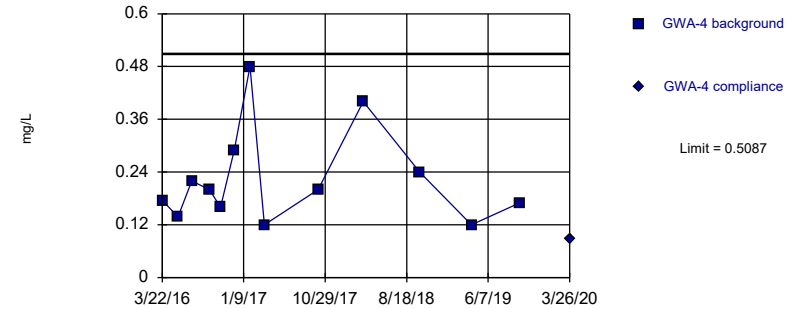


Background Data Summary: Mean=0.2393, Std. Dev.=0.1127, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8611, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

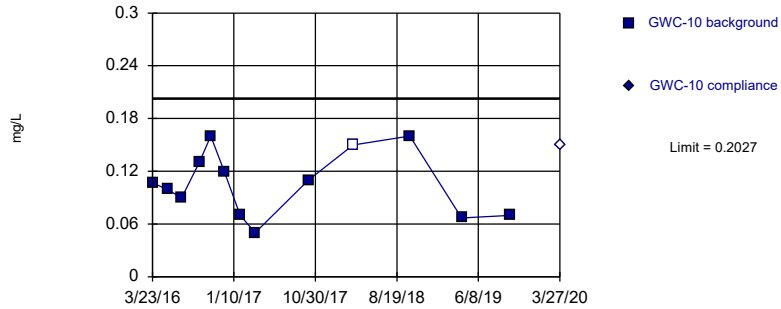


Background Data Summary: Mean=0.2241, Std. Dev.=0.1082, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8369, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

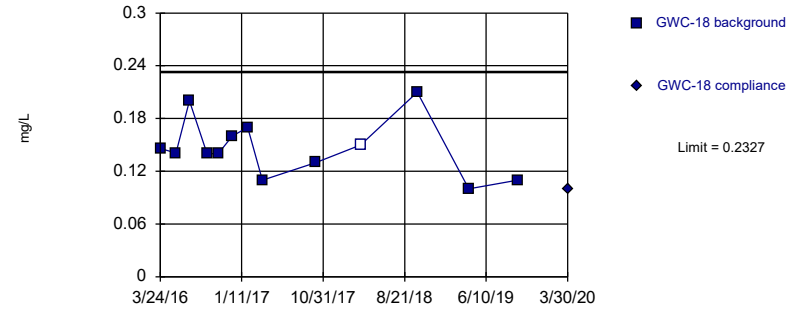


Background Data Summary: Mean=0.1064, Std. Dev.=0.03664, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9437, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

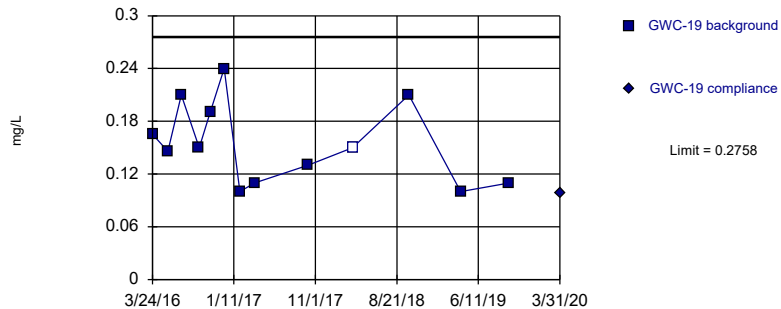


Background Data Summary: Mean=0.1467, Std. Dev.=0.03273, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9391, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

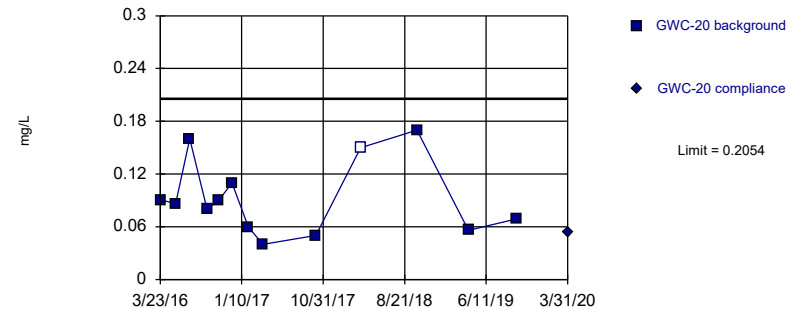


Background Data Summary: Mean=0.1547, Std. Dev.=0.04606, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.925, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric



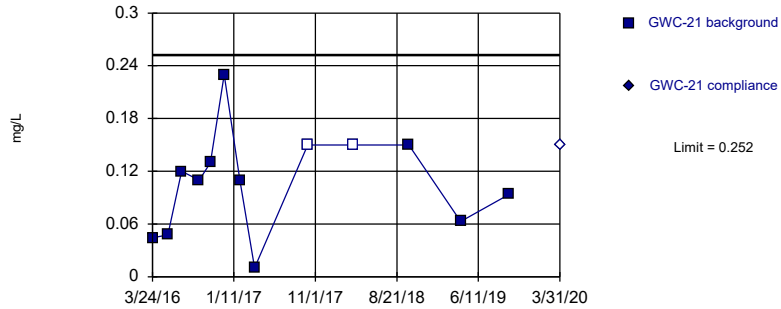
Background Data Summary: Mean=0.09322, Std. Dev.=0.0427, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9005, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



Within Limit

Prediction Limit  
Intrawell Parametric

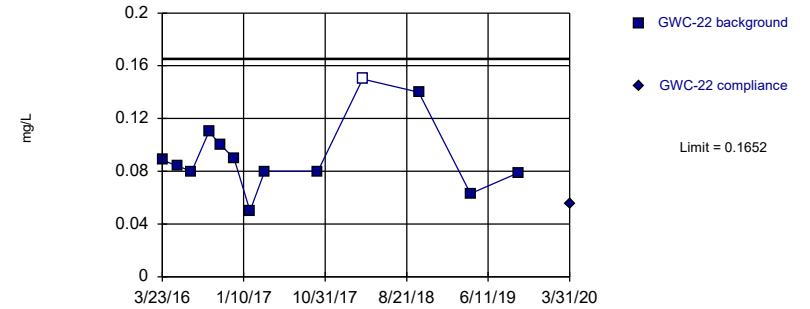


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.09554, Std. Dev.=0.05953, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9628, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

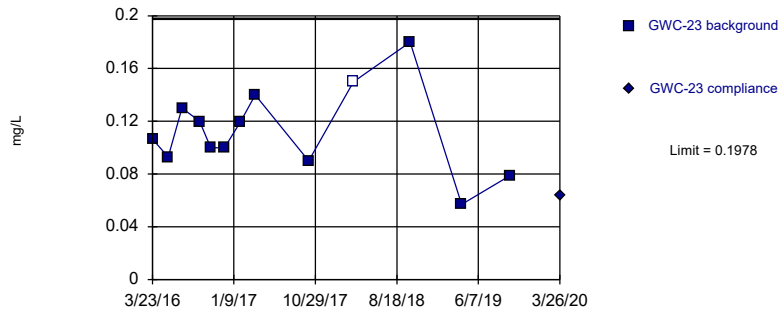


Background Data Summary: Mean=0.09188, Std. Dev.=0.0279, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.899, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

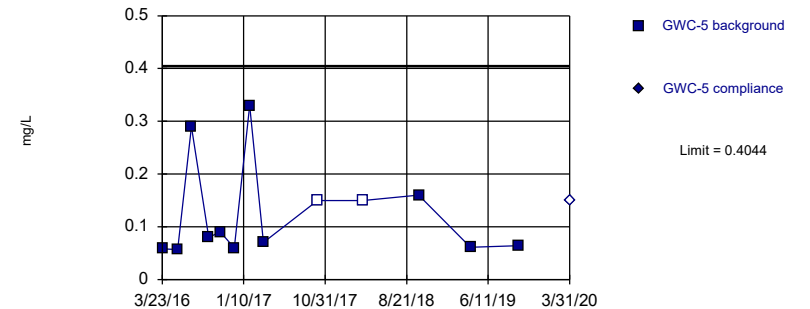


Background Data Summary: Mean=0.1127, Std. Dev.=0.03238, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9828, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

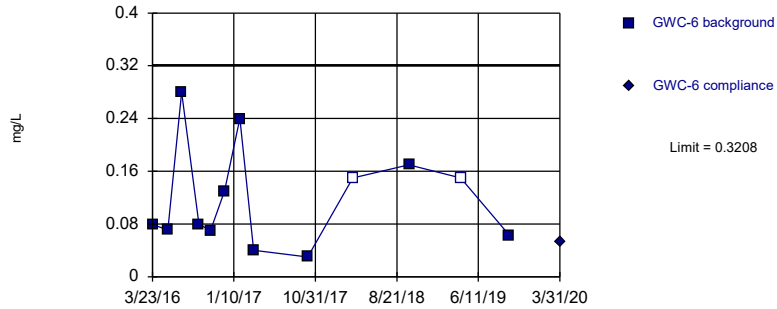


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.4643, Std. Dev.=0.1047, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8202, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

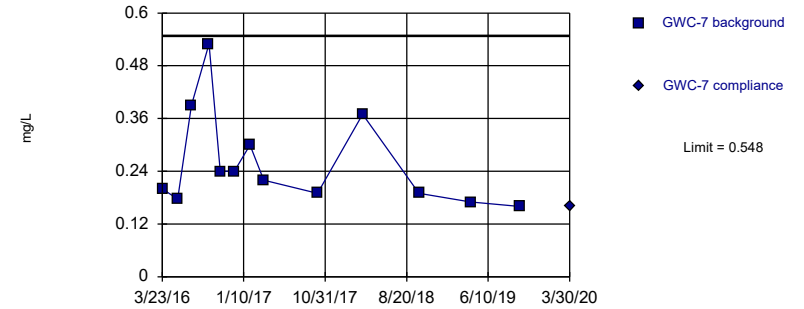


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1139, Std. Dev.=0.07868, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8986, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

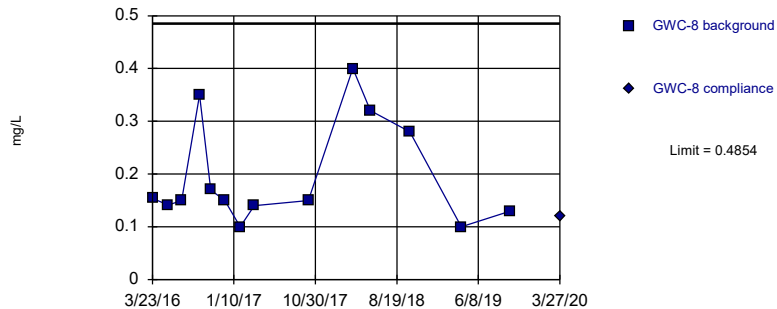


Background Data Summary: Mean=0.2598, Std. Dev.=0.1097, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8224, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

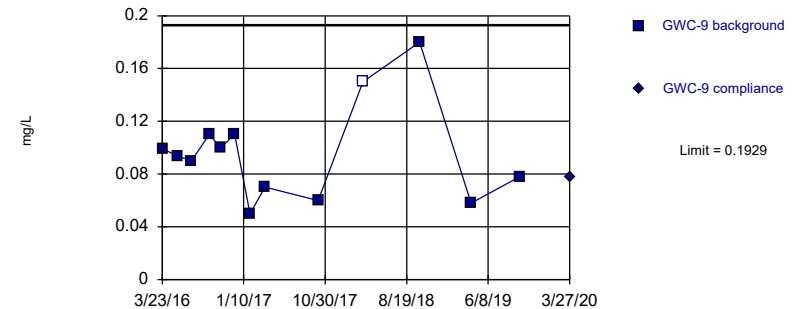


Background Data Summary (based on square root transformation): Mean=0.4306, Std. Dev.=0.1035, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.833, critical = 0.825. Kappa = 2.571 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
 Intrawell Parametric

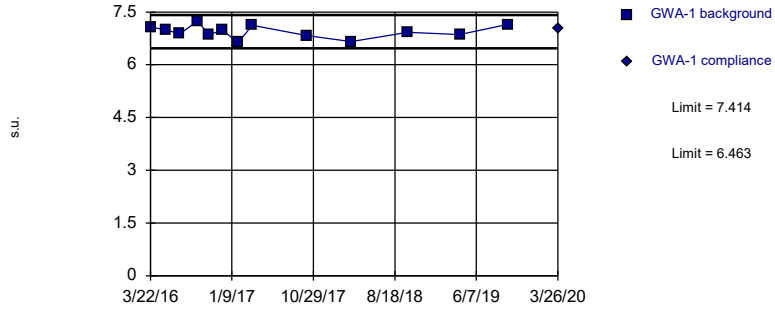


Background Data Summary: Mean=0.09607, Std. Dev.=0.03684, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9147, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

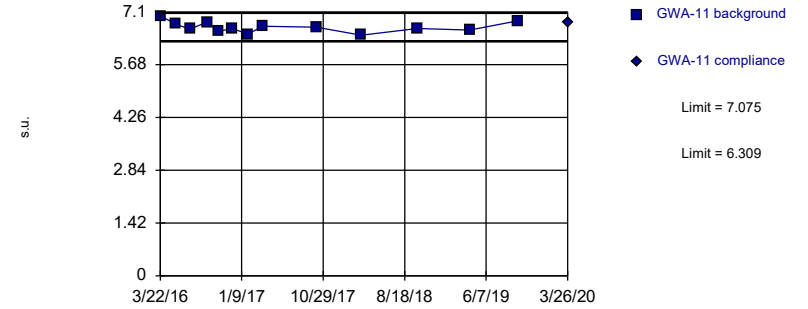


Background Data Summary: Mean=6.938, Std. Dev.=0.1807, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9693, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

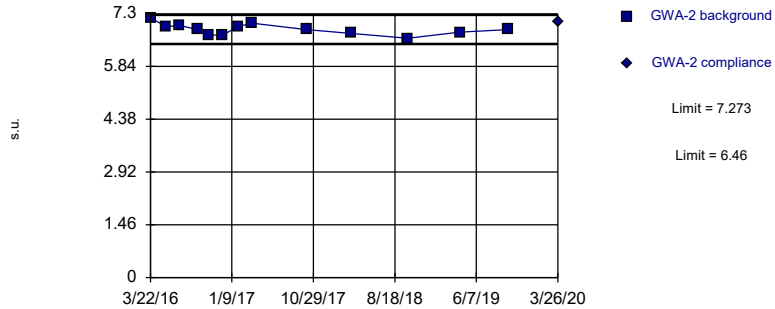


Background Data Summary: Mean=6.692, Std. Dev.=0.1457, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9669, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

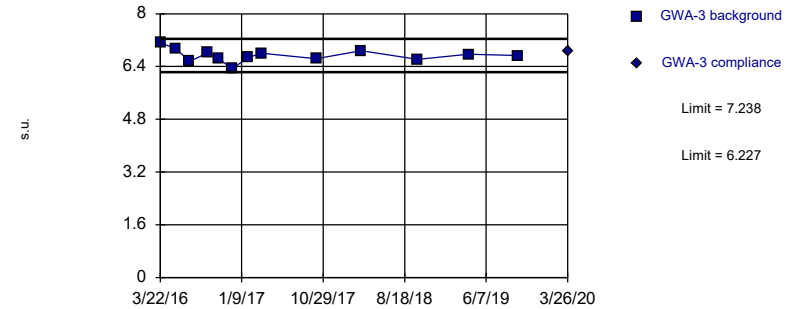


Background Data Summary: Mean=6.867, Std. Dev.=0.1547, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9756, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

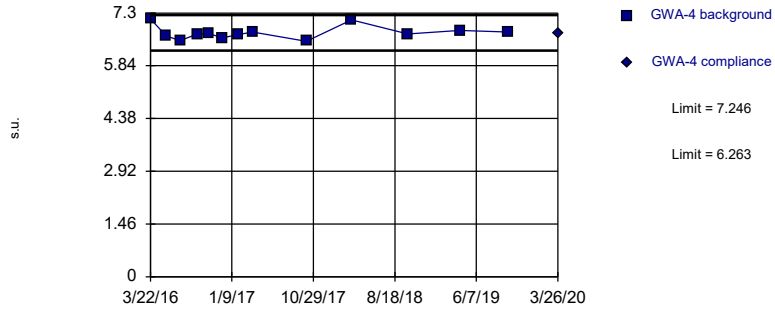


Background Data Summary: Mean=6.732, Std. Dev.=0.1922, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9818, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

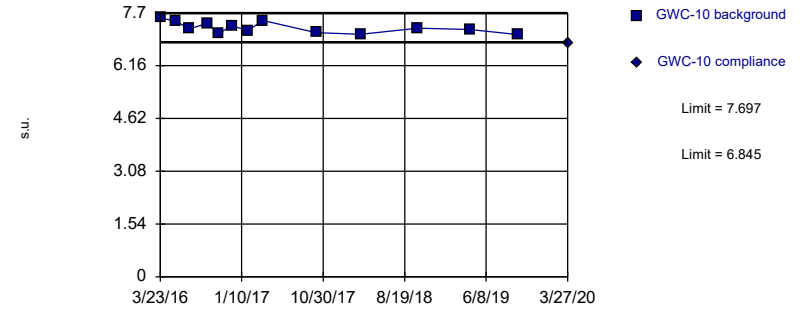


Background Data Summary: Mean=6.755, Std. Dev.=0.1869, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.862, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Exceeds Limits

Prediction Limit  
Intrawell Parametric

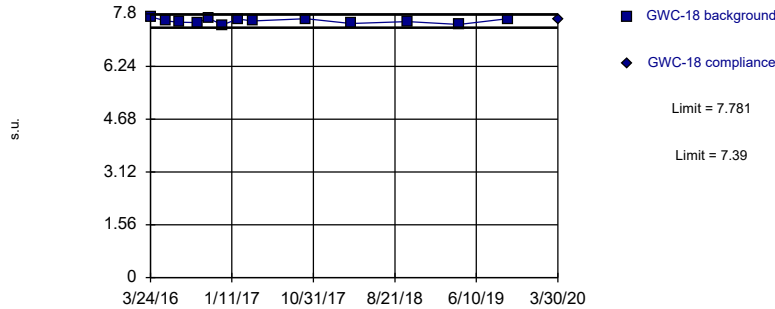


Background Data Summary: Mean=7.271, Std. Dev.=0.162, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9348, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

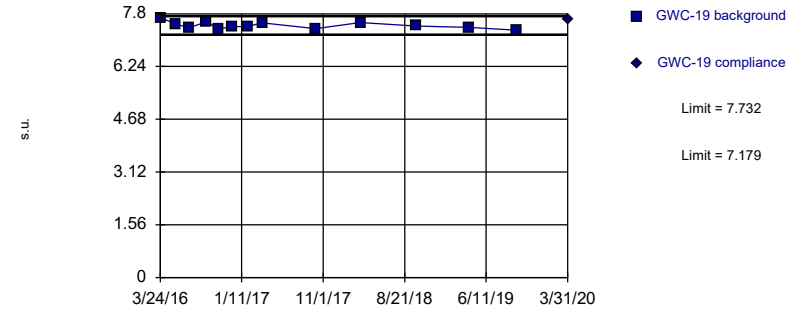


Background Data Summary: Mean=7.585, Std. Dev.=0.07423, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9602, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

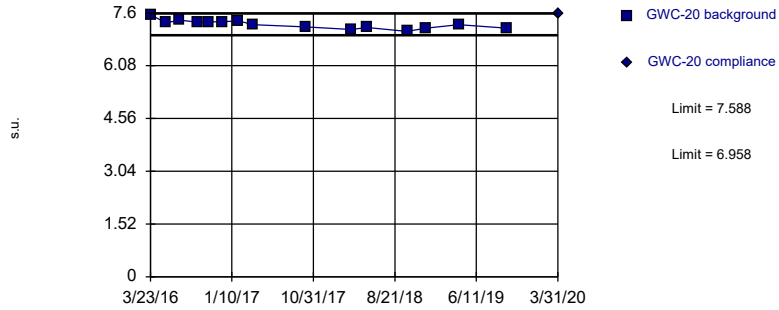


Background Data Summary: Mean=7.455, Std. Dev.=0.1052, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9485, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

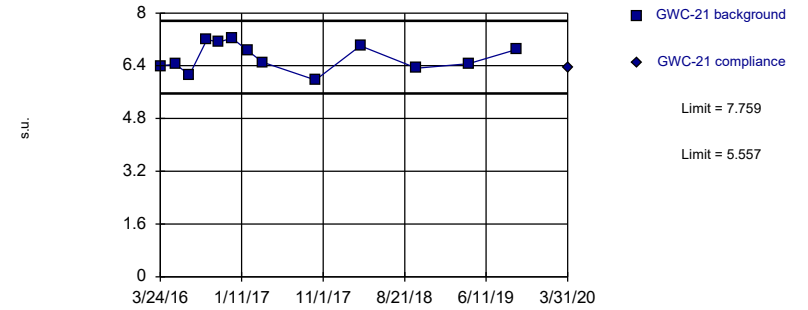


Background Data Summary: Mean=7.273, Std. Dev.=0.1253, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9587, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

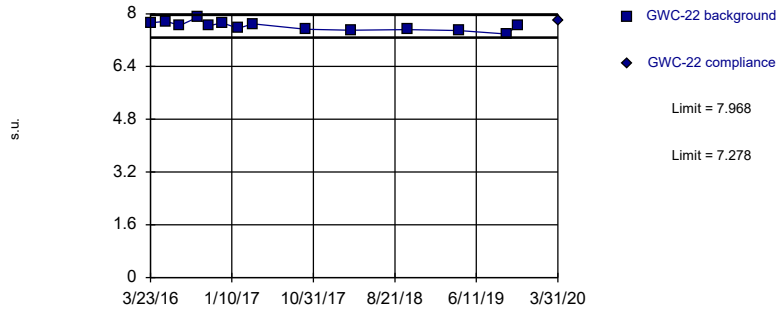


Background Data Summary: Mean=6.658, Std. Dev.=0.4189, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9363, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

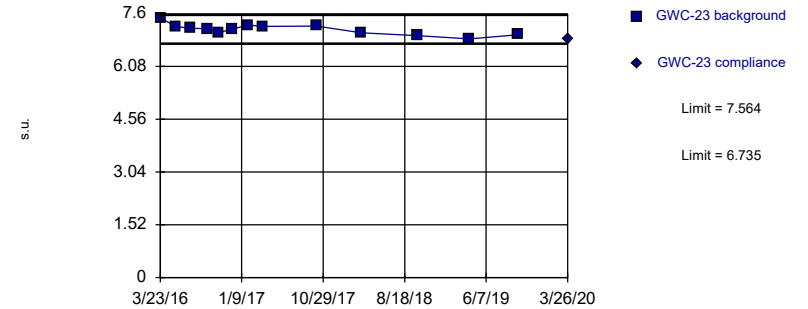


Background Data Summary: Mean=7.623, Std. Dev.=0.1341, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9786, critical = 0.825. Kappa = 2.571 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

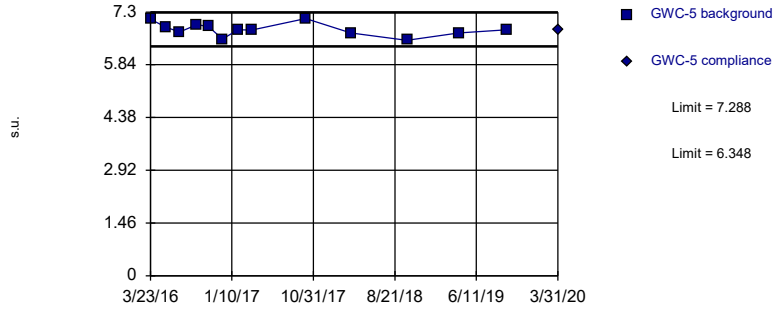


Background Data Summary: Mean=7.149, Std. Dev.=0.1578, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9618, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
 Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

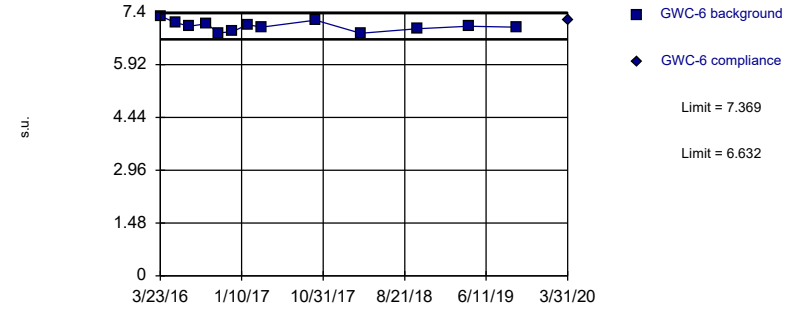


Background Data Summary: Mean=6.818, Std. Dev.=0.1788, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9555, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

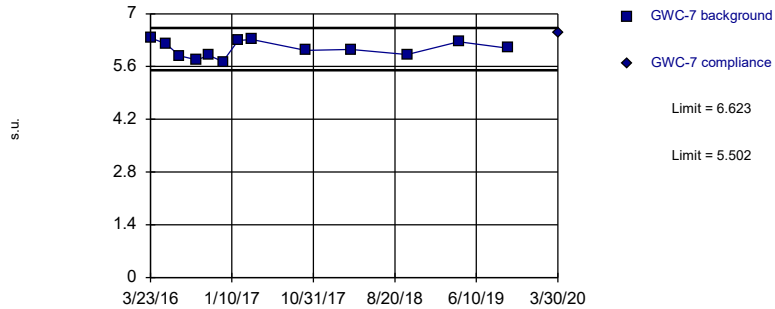


Background Data Summary: Mean=7.001, Std. Dev.=0.1401, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.965, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

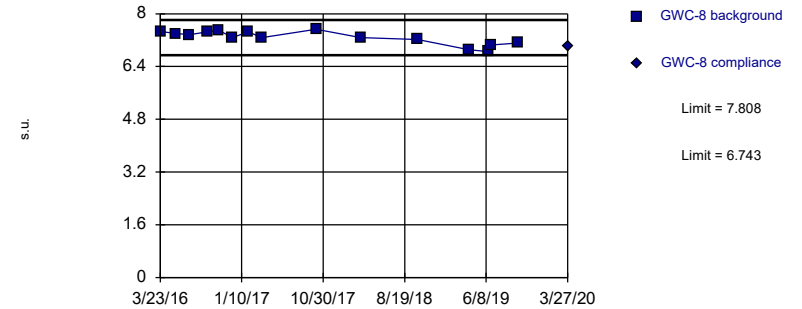


Background Data Summary: Mean=6.062, Std. Dev.=0.2132, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9398, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

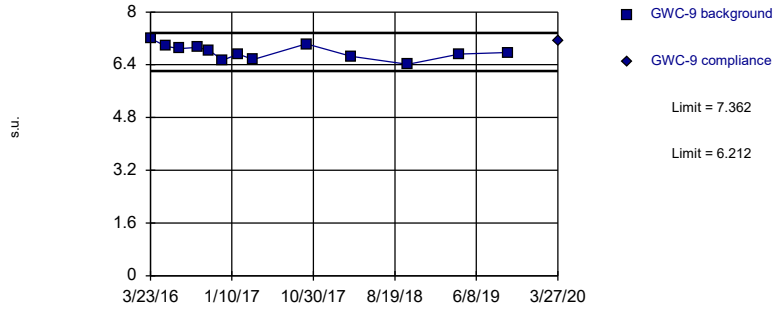


Background Data Summary: Mean=7.275, Std. Dev.=0.2119, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric

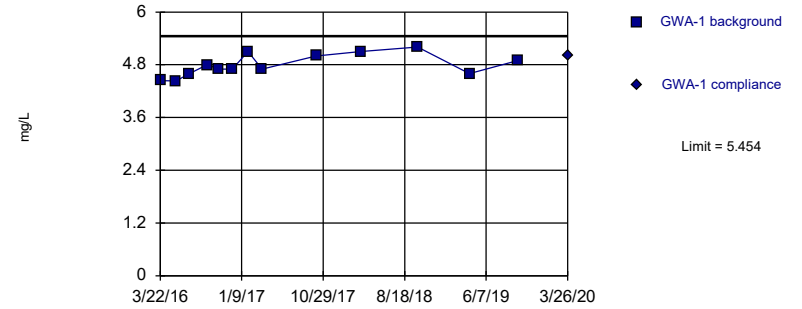


Background Data Summary: Mean=6.787, Std. Dev.=0.2186, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9914, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

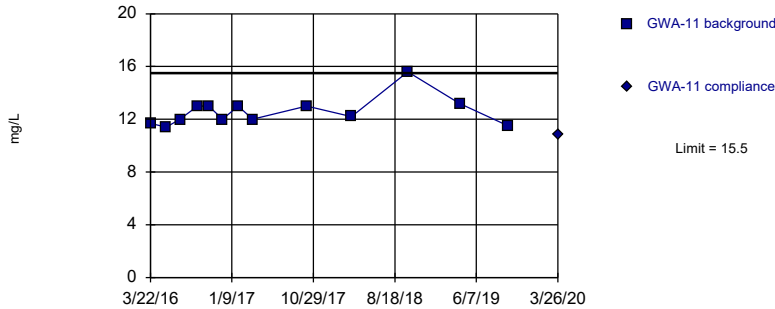


Background Data Summary: Mean=4.79, Std. Dev.=0.2524, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9406, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

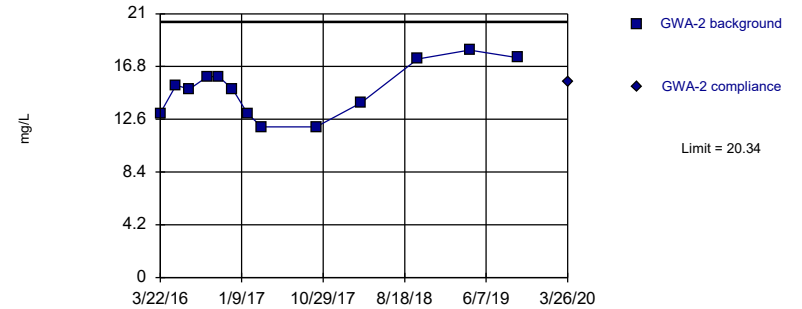


Background Data Summary: Mean=12.58, Std. Dev.=1.108, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8167, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

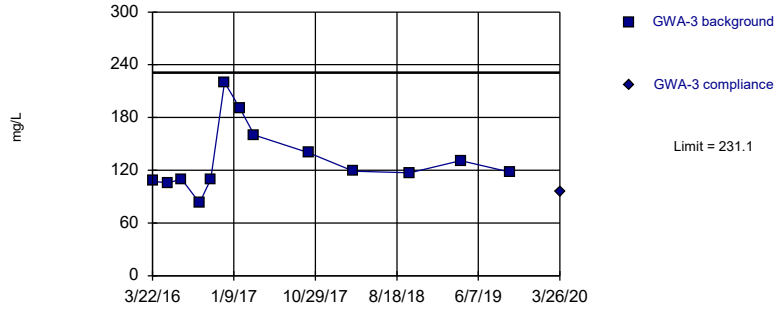
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=14.94, Std. Dev.=2.053, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9427, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

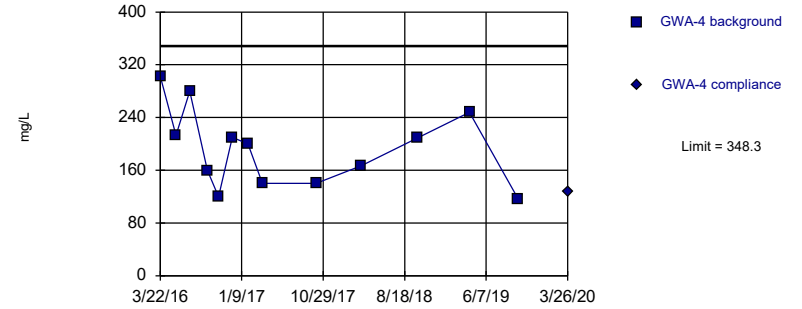
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=131.7, Std. Dev.=37.85, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8594, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

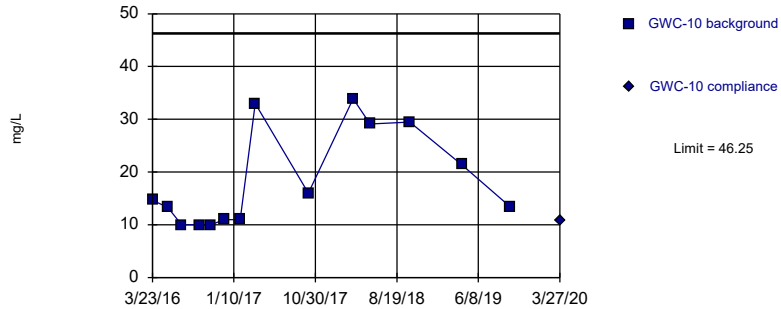
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=192.8, Std. Dev.=59.18, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9402, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

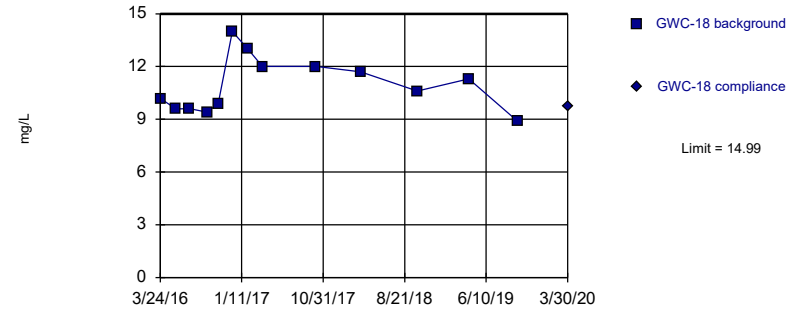
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=4.162, Std. Dev.=1.026, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8337, critical = 0.825. Kappa = 2.571 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

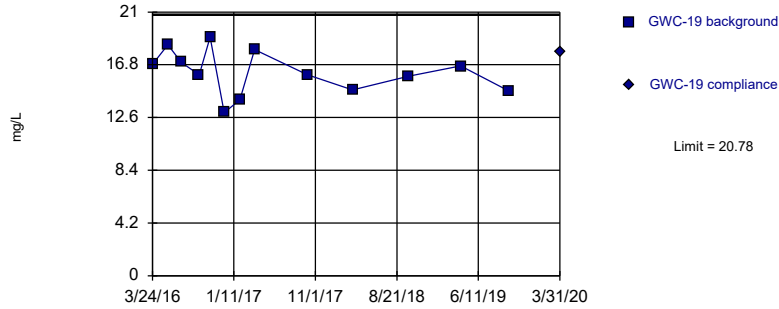


Background Data Summary: Mean=10.94, Std. Dev.=1.541, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9417, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



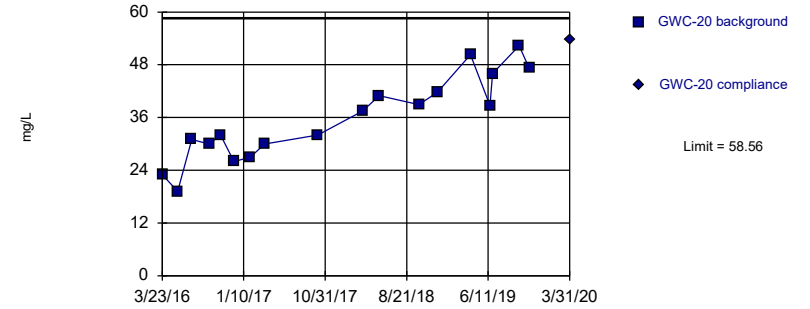
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=16.18, Std. Dev.=1.748, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9787, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

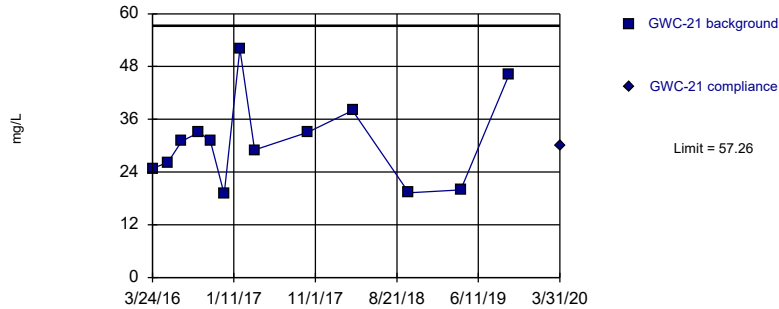
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=35.78, Std. Dev.=9.504, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9715, critical = 0.858. Kappa = 2.397 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

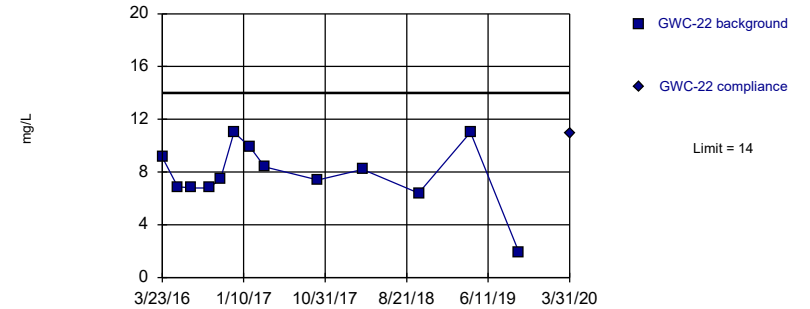
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=30.96, Std. Dev.=10.01, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

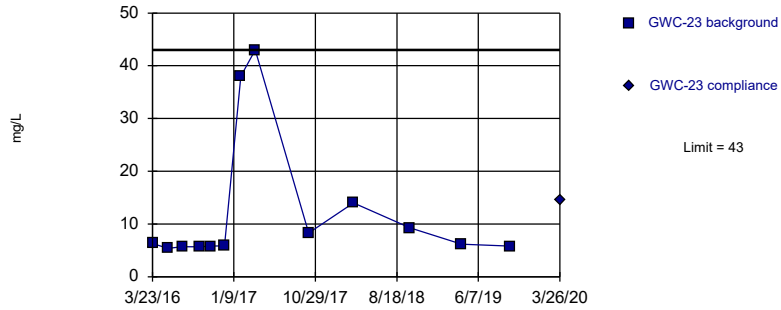
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=7.792, Std. Dev.=2.363, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8985, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

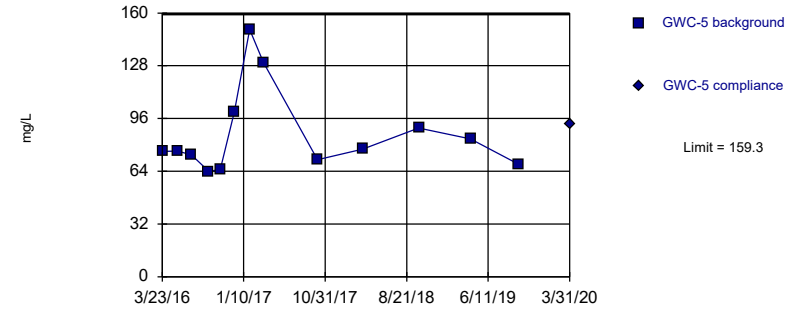
Within Limit Prediction Limit  
Intrawell Non-parametric



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 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

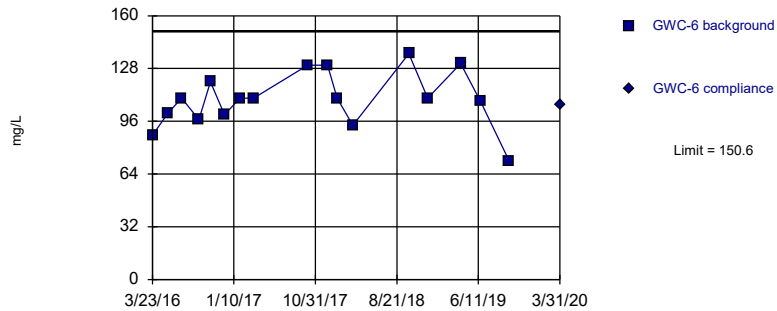
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=9.222, Std. Dev.=1.293, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8196, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

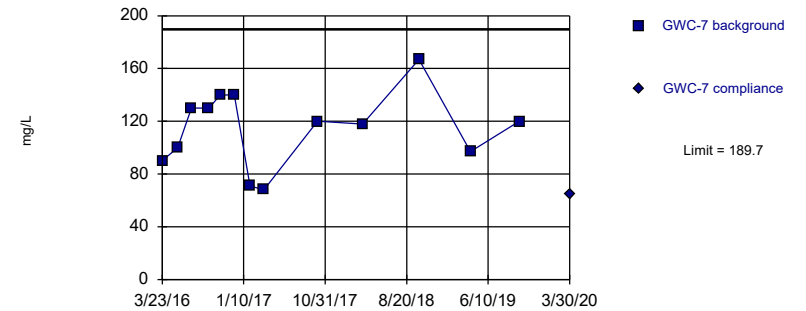
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=109.2, Std. Dev.=17.06, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.851. Kappa = 2.427 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

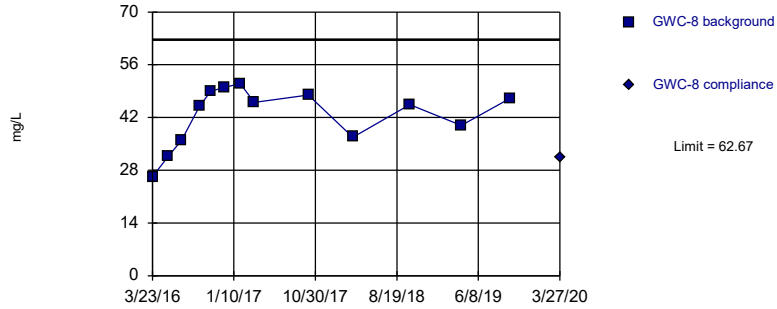
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=114.7, Std. Dev.=28.53, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9639, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

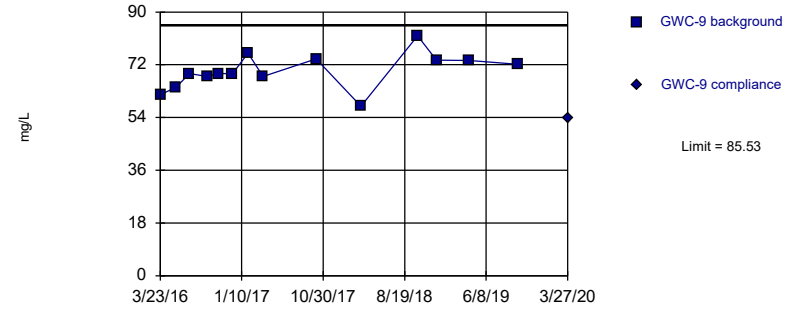
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=42.48, Std. Dev.=7.682, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.896, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

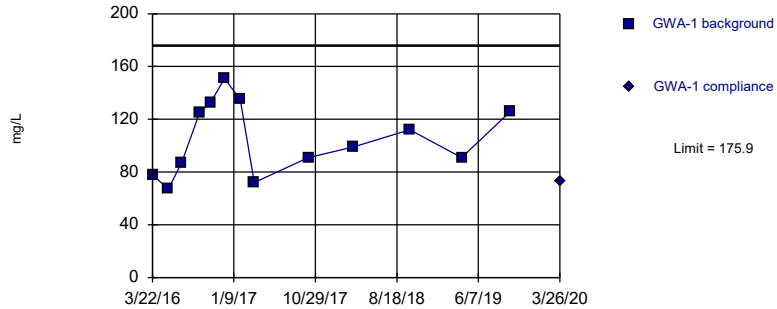
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=69.87, Std. Dev.=6.092, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.973, critical = 0.825. Kappa = 2.571 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

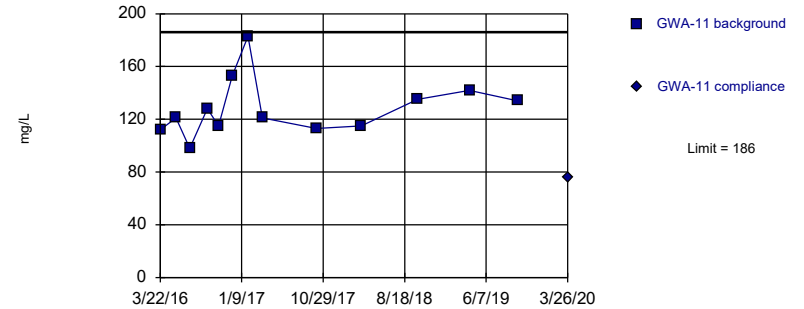
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=105.2, Std. Dev.=26.93, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9463, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

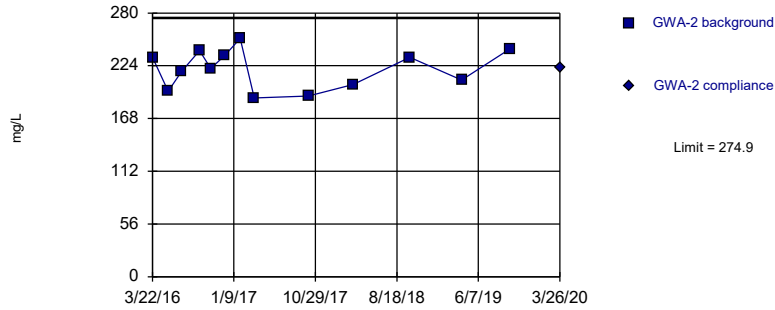
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=128.5, Std. Dev.=21.88, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9038, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

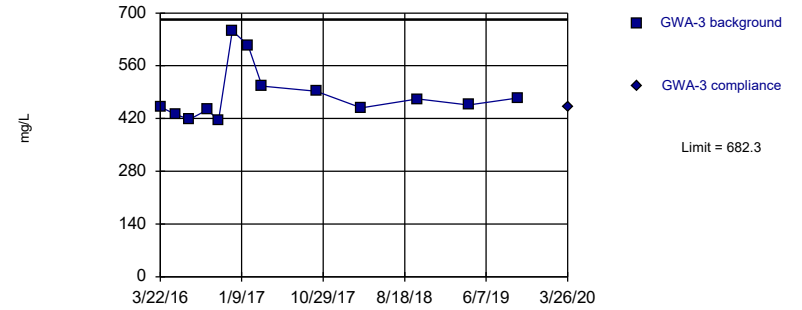
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=220.5, Std. Dev.=20.67, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.942, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

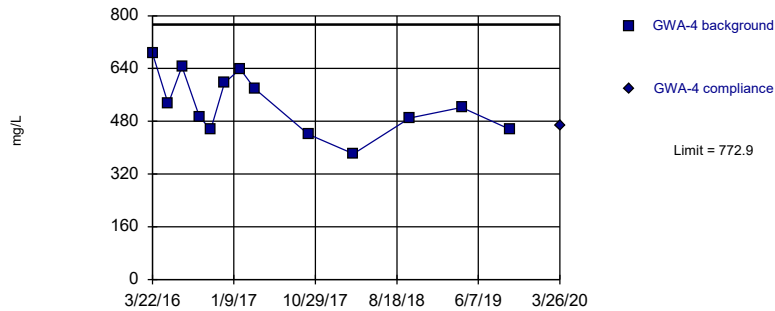
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=7.827, Std. Dev.=0.3714, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8186, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 1:59 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

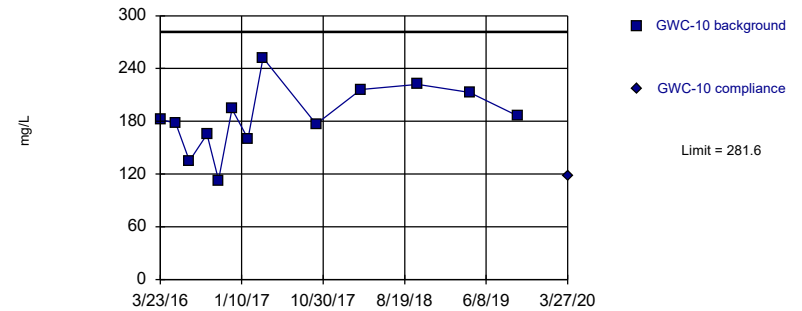
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=531.9, Std. Dev.=91.69, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9665, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

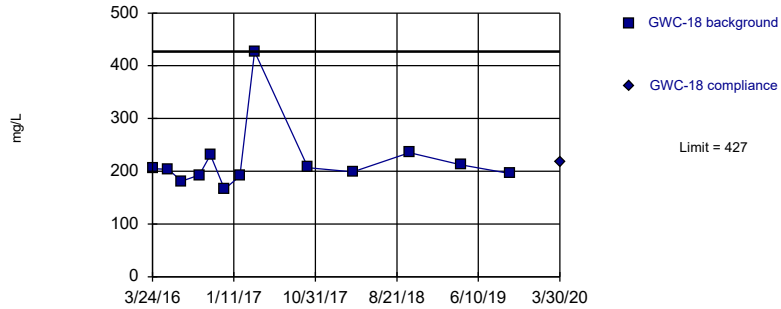
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=184.1, Std. Dev.=37.09, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9837, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

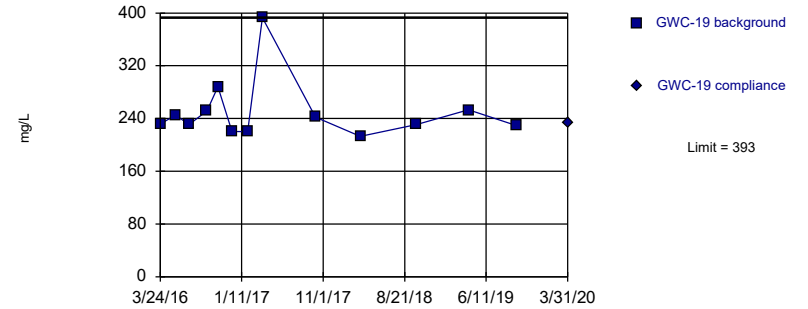
Within Limit Prediction Limit  
Intrawell Non-parametric



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 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

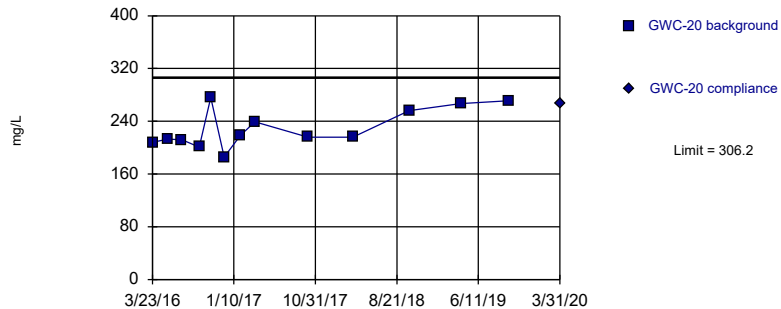
Within Limit Prediction Limit  
Intrawell Non-parametric



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 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

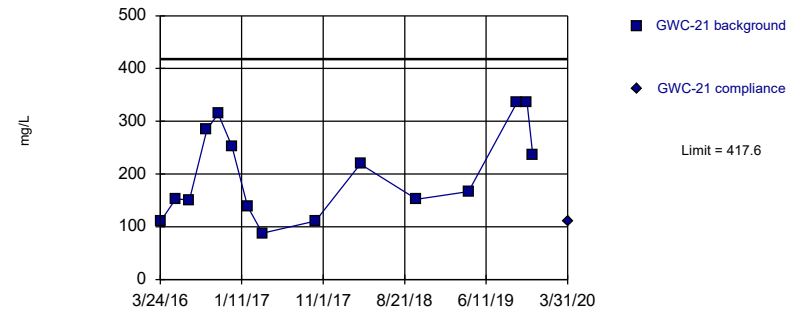
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=229.2, Std. Dev.=29.3, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8995, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

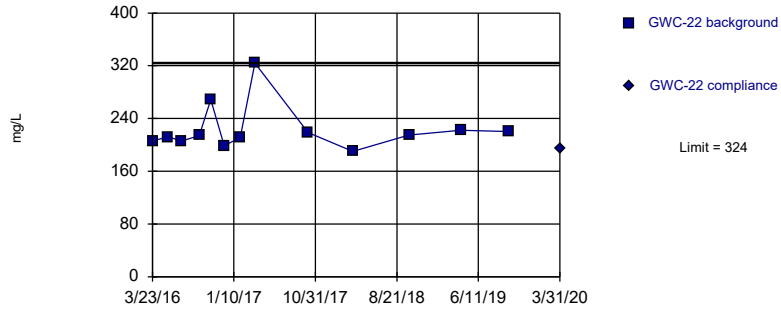
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=203.2, Std. Dev.=85.29, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9112, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

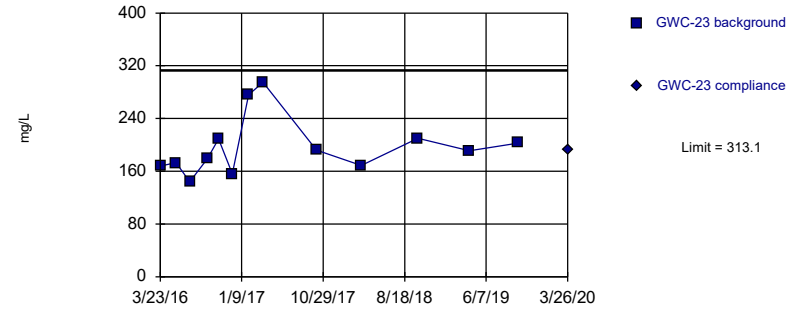
Within Limit Prediction Limit  
Intrawell Non-parametric



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 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

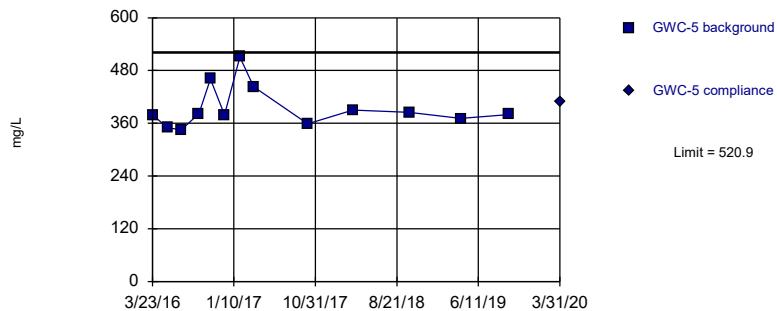
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=197.3, Std. Dev.=44.03, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8638, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

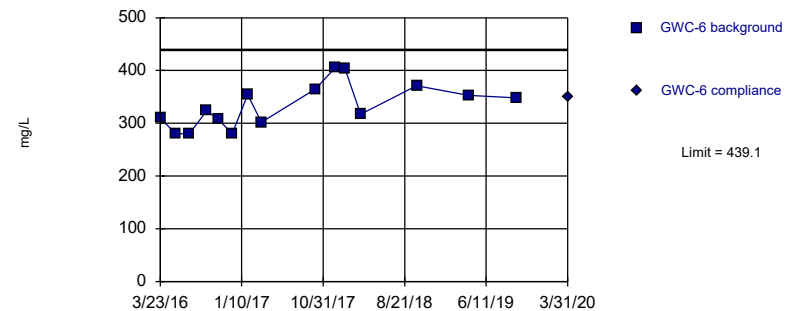
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=395, Std. Dev.=47.9, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.817, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

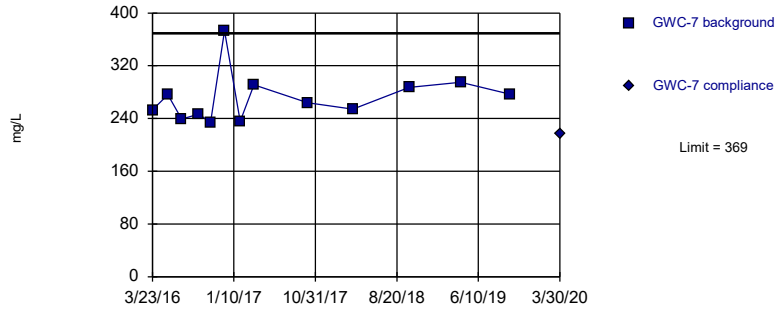


Background Data Summary: Mean=333.5, Std. Dev.=42.03, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9302, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

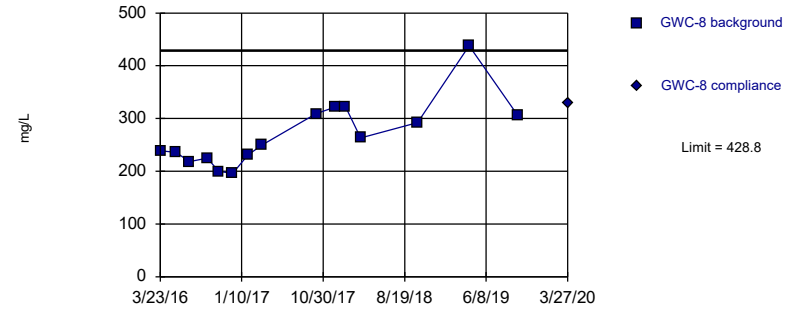


Background Data Summary: Mean=271.2, Std. Dev.=37.22, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8351, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

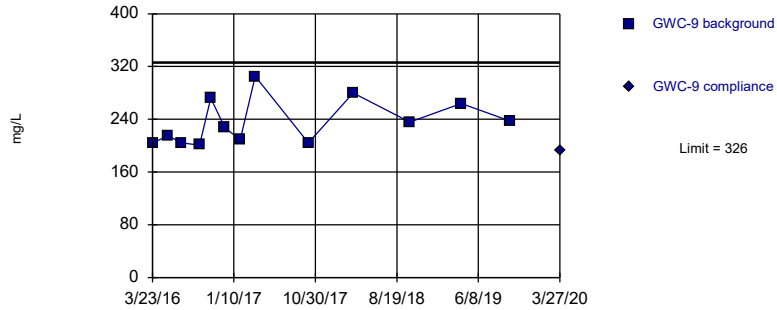


Background Data Summary: Mean=269.7, Std. Dev.=63.28, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8845, critical = 0.835. Kappa = 2.514 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=235.2, Std. Dev.=34.54, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8738, critical = 0.814. Kappa = 2.629 (c=7, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/12/2020 2:00 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/22/2016	<0.1	
5/17/2016	<0.1	
7/5/2016	0.0419 (J)	
9/7/2016	0.0174 (J)	
10/18/2016	0.0192 (J)	
12/6/2016	0.0182 (J)	
1/31/2017	0.0193 (J)	
3/23/2017	0.0192 (J)	
10/4/2017	0.0199 (J)	
3/14/2018	0.019 (J)	
10/4/2018	0.021 (J)	
4/8/2019	0.019 (J)	
9/30/2019	0.025 (J)	
3/26/2020		0.022 (J)



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/22/2016	0.04 (J)	
5/17/2016	0.0358 (J)	
7/6/2016	0.0373 (J)	
9/7/2016	0.0352 (J)	
10/18/2016	0.0332 (J)	
12/6/2016	0.033 (J)	
2/1/2017	0.0365 (J)	
3/24/2017	0.0343 (J)	
10/5/2017	0.0325 (J)	
3/15/2018	0.037 (J)	
10/4/2018	0.035 (J)	
4/8/2019	0.034 (J)	
9/30/2019	0.039 (J)	
3/26/2020		0.041 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/22/2016	0.0828 (J)	
5/17/2016	0.0844 (J)	
7/5/2016	0.0962 (J)	
9/7/2016	0.0884 (J)	
10/18/2016	0.0889 (J)	
12/7/2016	0.0954	
1/31/2017	0.0939	
3/23/2017	0.0869	
10/4/2017	0.0914	
3/14/2018	0.075	
10/4/2018	0.082	
4/8/2019	0.071 (J)	
9/30/2019	0.084	
3/26/2020		0.092 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/22/2016	0.135	
5/17/2016	0.132	
7/5/2016	0.161	
9/7/2016	0.163	
10/18/2016	0.154	
12/6/2016	0.142	
2/1/2017	0.143	
3/23/2017	0.15	
10/4/2017	0.182	
3/15/2018	0.14	
10/4/2018	0.16	
4/5/2019	0.12	
9/30/2019	0.17	
3/26/2020		0.14

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/22/2016	0.0815 (J)	
5/17/2016	0.0838 (J)	
7/6/2016	0.111	
9/7/2016	0.107	
10/18/2016	0.118	
12/6/2016	0.106	
2/1/2017	0.0949	
3/24/2017	0.0887	
10/4/2017	0.105	
3/15/2018	0.043	
10/4/2018	0.1	
4/8/2019	0.057 (J)	
9/30/2019	0.11	
3/26/2020		0.086 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	0.0354 (J)	
5/17/2016	0.0349 (J)	
7/6/2016	0.0308 (J)	
9/7/2016	0.0283 (J)	
10/18/2016	0.0292 (J)	
12/6/2016	0.0287 (J)	
2/2/2017	0.0334 (J)	
3/27/2017	0.0396 (J)	
10/5/2017	0.0294 (J)	
3/15/2018	0.038 (J)	
10/4/2018	0.038 (J)	
4/9/2019	0.035 (J)	
10/1/2019	0.031 (J)	
3/27/2020		0.04 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	0.122	
5/18/2016	0.139	
7/7/2016	0.12	
9/8/2016	0.126	
10/19/2016	0.133	
12/8/2016	0.119	
2/2/2017	0.132	
3/27/2017	0.134	
10/5/2017	0.125	
3/16/2018	0.12	
10/5/2018	0.15	
4/9/2019	0.12	
10/1/2019	0.14	
3/30/2020		0.13

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	0.173	
5/18/2016	0.186	
7/6/2016	0.184	
9/8/2016	0.173	
10/18/2016	0.171	
12/7/2016	0.203	
2/2/2017	0.187	
3/27/2017	0.182	
10/5/2017	0.166	
3/15/2018	0.17	
10/4/2018	0.17	
4/9/2019	0.17	
10/1/2019	0.17	
3/31/2020		0.18

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	<0.1	
5/18/2016	0.0229 (J)	
7/7/2016	0.0169 (J)	
9/8/2016	0.0178 (J)	
10/19/2016	0.018 (J)	
12/7/2016	0.0248 (J)	
2/3/2017	0.0171 (J)	
3/27/2017	0.0181 (J)	
10/5/2017	0.0178 (J)	
3/16/2018	0.016 (J)	
10/5/2018	0.017 (J)	
4/9/2019	0.011 (J)	
10/1/2019	0.019 (J)	
3/31/2020		0.024 (J)



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	0.0232 (J)	
5/18/2016	0.0289 (J)	
7/7/2016	0.0313 (J)	
9/8/2016	0.0593 (J)	
10/19/2016	0.087 (J)	
12/7/2016	0.127	
2/2/2017	0.0318 (J)	
3/27/2017	0.0225 (J)	
10/5/2017	0.0304 (J)	
3/15/2018	0.025 (J)	
10/4/2018	0.029 (J)	
4/9/2019	0.014 (J)	
10/1/2019	0.059	
3/31/2020		0.022 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	0.0649 (J)	
5/18/2016	0.0781 (J)	
7/7/2016	0.0621 (J)	
9/8/2016	0.0607 (J)	
10/19/2016	0.0733 (J)	
12/7/2016	0.0758	
2/2/2017	0.0729	
3/27/2017	0.0698	
10/5/2017	0.0677	
3/15/2018	0.07	
10/4/2018	0.065	
4/9/2019	0.063	
10/1/2019	0.066	
3/31/2020		0.067 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	<0.1	
5/19/2016	0.0212 (J)	
7/7/2016	0.0183 (J)	
9/8/2016	0.017 (J)	
10/19/2016	0.0203 (J)	
12/7/2016	0.0215 (J)	
2/3/2017	0.0812	
3/27/2017	0.125	
10/5/2017	0.0375 (J)	
3/15/2018	0.051	
10/5/2018	0.039 (J)	
4/8/2019	0.022 (J)	
10/1/2019	0.024 (J)	
3/26/2020		0.042 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	0.0509 (J)	
5/17/2016	0.0565 (J)	
7/6/2016	0.0628 (J)	
9/7/2016	0.0648 (J)	
10/18/2016	0.0666 (J)	
12/8/2016	0.062	
2/1/2017	0.0516	
3/23/2017	0.0597	
10/4/2017	0.0658	
3/16/2018	0.047	
10/4/2018	0.066	
4/9/2019	0.048	
10/1/2019	0.071	
3/31/2020		0.057 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	0.0379 (J)	
5/17/2016	0.0395 (J)	
7/6/2016	0.0393 (J)	
9/7/2016	0.04 (J)	
10/18/2016	0.0366 (J)	
12/8/2016	0.0397 (J)	
2/1/2017	0.0381 (J)	
3/23/2017	0.0416	
10/4/2017	0.0382 (J)	
3/16/2018	0.044	
5/16/2018	0.042	
10/4/2018	0.038 (J)	
4/8/2019	0.036 (J)	
10/1/2019	0.042 (J)	
3/31/2020		0.091 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	0.0574 (J)	
5/18/2016	0.0686 (J)	
7/6/2016	0.0675 (J)	
9/7/2016	0.0582 (J)	
10/18/2016	0.0577 (J)	
12/8/2016	0.0572	
2/2/2017	0.0534	
3/24/2017	0.0532	
10/4/2017	0.0563	
3/15/2018	0.053	
10/4/2018	0.048	
4/8/2019	0.049 (J)	
10/1/2019	0.05	
3/30/2020		0.049 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	0.0213 (J)	
5/18/2016	0.028 (J)	
7/6/2016	0.0231 (J)	
9/8/2016	0.0234 (J)	
10/18/2016	0.0228 (J)	
12/8/2016	0.0251 (J)	
2/2/2017	0.0238 (J)	
3/24/2017	0.0234 (J)	
10/5/2017	0.0329 (J)	
3/14/2018	0.024 (J)	
10/4/2018	0.047 (J)	
4/8/2019	0.055 (J)	
10/1/2019	0.046 (J)	
3/27/2020		0.056 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	<0.1	
5/18/2016	0.0202 (J)	
7/6/2016	0.0171 (J)	
9/8/2016	0.0157 (J)	
10/19/2016	0.0152 (J)	
12/8/2016	0.0178 (J)	
2/2/2017	0.0151 (J)	
3/27/2017	0.0203 (J)	
10/5/2017	0.0157 (J)	
3/15/2018	0.013 (J)	
10/5/2018	0.017 (J)	
4/8/2019	0.015 (J)	
10/1/2019	0.018 (J)	
3/27/2020		0.018 (J)



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/22/2016	13.9	
5/17/2016	15.6	
7/5/2016	15.7	
9/7/2016	18.2	
10/18/2016	17.7	
12/6/2016	16.9	
1/31/2017	17.9	
3/23/2017	13.9	
10/4/2017	15.9	
3/14/2018	<25	
10/4/2018	15.9 (J)	
4/8/2019	15.7	
9/30/2019	17.6	
3/26/2020		14

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/22/2016	23.8	
5/17/2016	21.5	
7/6/2016	20.6	
9/7/2016	16.7	
10/18/2016	20.3	
12/6/2016	19.7	
2/1/2017	18.1	
3/24/2017	21.1	
10/5/2017	20.1	
3/15/2018	<25	
10/4/2018	21.3 (J)	
4/8/2019	22.4	
9/30/2019	19.6	
3/26/2020		22.4

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/22/2016	47.4	
5/17/2016	45.5	
7/5/2016	40.5	
9/7/2016	37.3	
10/18/2016	46.6	
12/7/2016	43.5	
1/31/2017	39.2	
3/23/2017	38.7	
10/4/2017	36.5	
3/14/2018	39.5	
10/4/2018	41.7	
4/8/2019	44.1	
9/30/2019	44.6	
3/26/2020		43.2

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/22/2016	79.3	
5/17/2016	75.8	
7/5/2016	65.3	
9/7/2016	59.8	
10/18/2016	72.4	
12/6/2016	78.6	
2/1/2017	85	
3/23/2017	81.2	
10/4/2017	78.8	
3/15/2018	83.5	
10/4/2018	75.2	
4/5/2019	76.5	
9/30/2019	74.7	
3/26/2020		78.7

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/22/2016	123	
5/17/2016	99.2	
7/6/2016	109	
9/7/2016	67.2	
10/18/2016	77.9	
12/6/2016	93.3	
2/1/2017	92.8	
3/24/2017	96.3	
10/4/2017	75.1	
3/15/2018	69.9	
10/4/2018	77.8	
4/8/2019	86.6	
9/30/2019	78.3	
3/26/2020		87.4

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	43.9	
5/17/2016	40.1	
7/6/2016	32.3	
9/7/2016	28.9	
10/18/2016	35.4	
12/6/2016	34.3	
2/2/2017	38.1	
3/27/2017	45.4	
10/5/2017	35.8	
3/15/2018	52.4	
5/15/2018	48.4	
10/4/2018	51.2	
12/11/2018	49.3	
4/9/2019	48.8	
10/1/2019	36.8	
3/27/2020		22.9

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	40.7	
5/18/2016	41.9	
7/7/2016	36.8	
9/8/2016	35.9	
10/19/2016	38.7	
12/8/2016	39.4	
2/2/2017	41.5	
3/27/2017	39.1	
10/5/2017	41.6	
3/16/2018	45.9	
5/16/2018	40	
10/5/2018	39.6	
4/9/2019	41.4	
10/1/2019	38.7	
3/30/2020		45.7

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	43.9	
5/18/2016	48.2	
7/6/2016	45.8	
9/8/2016	40.9	
10/18/2016	45.5	
12/7/2016	40.6	
2/2/2017	42.4	
3/27/2017	45.5	
10/5/2017	42.9	
3/15/2018	43.3	
10/4/2018	43.7	
4/9/2019	45.8	
10/1/2019	42.3	
3/31/2020		52.3



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	56.3	
5/18/2016	59	
7/7/2016	50.9	
9/8/2016	48	
10/19/2016	49.7	
12/7/2016	46.4	
2/3/2017	49	
3/27/2017	50.7	
10/5/2017	52	
3/16/2018	53.4	
10/5/2018	52.7	
4/9/2019	57.1	
10/1/2019	59.1	
3/31/2020		63.6

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	31.4	
5/18/2016	39.2	
7/7/2016	36	
9/8/2016	70	
10/19/2016	63	
12/7/2016	54.7	
2/2/2017	37.4	
3/27/2017	20.9	
10/5/2017	26.8	
3/15/2018	62.8	
10/4/2018	48.6	
4/9/2019	35.4	
10/1/2019	82.8	
11/6/2019	74.9	
11/26/2019	45.8	
3/31/2020		25.6

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	49.9	
5/18/2016	50.7	
7/7/2016	45.5	
9/8/2016	46.8	
10/19/2016	47.3	
12/7/2016	45.3	
2/2/2017	49.9	
3/27/2017	45.8	
10/5/2017	47.3	
3/15/2018	46.8	
10/4/2018	50.4	
4/9/2019	47.3	
10/1/2019	46.9	
3/31/2020		51.5

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	36.4	
5/19/2016	41.5	
7/7/2016	33.5	
9/8/2016	34.7	
10/19/2016	33.4	
12/7/2016	35.5	
2/3/2017	31.7	
3/27/2017	32	
10/5/2017	41	
3/15/2018	39.8	
10/5/2018	39.3	
4/8/2019	39.8	
10/1/2019	39.1	
3/26/2020		44.7

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	79	
5/17/2016	74.6	
7/6/2016	66.9	
9/7/2016	61.6	
10/18/2016	71.6	
12/8/2016	67.6	
2/1/2017	82.5	
3/23/2017	84.4	
10/4/2017	70.8	
3/16/2018	78.1	
10/4/2018	73	
4/9/2019	73.9	
10/1/2019	70.6	
3/31/2020		84.2

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	64.1	
5/17/2016	62.8	
7/6/2016	59.5	
9/7/2016	53.7	
10/18/2016	62.3	
12/8/2016	58.8	
2/1/2017	59.6	
3/23/2017	62.9	
10/4/2017	62.4	
3/16/2018	66.9	
10/4/2018	65.5	
4/8/2019	67	
10/1/2019	64.2	
3/31/2020		70.6

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	45.2	
5/18/2016	46.5	
7/6/2016	29.1	
9/7/2016	19.2	
10/18/2016	22.6	
12/8/2016	17.5	
2/2/2017	54.4	
3/24/2017	56.8	
10/4/2017	30.5	
3/15/2018	43.4	
10/4/2018	26.1	
4/8/2019	56.1	
10/1/2019	28.5	
3/30/2020		47.8

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	69.1	
5/18/2016	63.7	
7/6/2016	56.8	
9/8/2016	51.3	
10/18/2016	52.6	
12/8/2016	43.7	
2/2/2017	56.5	
3/24/2017	64.4	
10/5/2017	59.9	
3/14/2018	58.8	
10/4/2018	264 (o)	
12/11/2018	64.3	
4/8/2019	81.5	
6/18/2019	83.7	
6/27/2019	75.9	
10/1/2019	64	
3/27/2020		87.3



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	36	
5/18/2016	37.3	
7/6/2016	32.8	
9/8/2016	32.1	
10/19/2016	35	
12/8/2016	33.4	
2/2/2017	34.3	
3/27/2017	34.9	
10/5/2017	34.7	
3/15/2018	35.3	
10/5/2018	37.8	
4/8/2019	36.3	
10/1/2019	37.2	
3/27/2020		34.3

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/22/2016	1.1933	
5/17/2016	1.14	
7/5/2016	1.4	
9/7/2016	1	
10/18/2016	1.1	
12/6/2016	1	
1/31/2017	1.2	
3/23/2017	1.1	
10/4/2017	1.1	
3/14/2018	1.2	
10/4/2018	1.4	
4/8/2019	1.1	
9/30/2019	1.4	
3/26/2020		1.1

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/22/2016	1.3137	
5/17/2016	1.29	
7/6/2016	1.6	
9/7/2016	1.5	
10/18/2016	1.6	
12/6/2016	1.2	
2/1/2017	2.1	
3/24/2017	1.3	
10/5/2017	1.3	
3/15/2018	1.6	
10/4/2018	1.8	
4/8/2019	1.3	
9/30/2019	1.5	
3/26/2020		1.4

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/22/2016	2.0975	
5/17/2016	2.1	
7/5/2016	2.4	
9/7/2016	2.5	
10/18/2016	2.7	
12/7/2016	2.6	
1/31/2017	2.5	
3/23/2017	2	
10/4/2017	2.2	
3/14/2018	2.4	
10/4/2018	2.5	
4/8/2019	2.6	
9/30/2019	3	
3/26/2020		2

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/22/2016	4.0352	
5/17/2016	3.81	
7/5/2016	4	
9/7/2016	4.2	
10/18/2016	4.4	
12/6/2016	4.6	
2/1/2017	3.7	
3/23/2017	3.5	
10/4/2017	3.6	
3/15/2018	3.8	
10/4/2018	3.4	
4/5/2019	4.2	
9/30/2019	4.1	
3/26/2020		2.6

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/22/2016	5.549	
5/17/2016	6.74	
7/6/2016	5.2	
9/7/2016	7.2	
10/18/2016	7.4	
12/6/2016	7.6	
2/1/2017	8.5	
3/24/2017	7	
10/4/2017	7.4	
3/15/2018	1.7	
10/4/2018	6.1	
4/8/2019	3.6	
9/30/2019	7.5	
3/26/2020		5.4

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	1.3507	
5/17/2016	1.28	
7/6/2016	1.5	
9/7/2016	1.5	
10/18/2016	1.4	
12/6/2016	1.3	
2/2/2017	1.8	
3/27/2017	1.7	
10/5/2017	1.5	
3/15/2018	2	
5/15/2018	1.4	
10/4/2018	2.1	
12/11/2018	1.9	
4/9/2019	1.9	
10/1/2019	1.5	
3/27/2020		1.2

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	1.1313	
5/19/2016	1.13	
7/7/2016	1.5	
9/8/2016	1.4	
10/19/2016	1.4	
12/8/2016	1.4	
2/2/2017	1.6	
3/27/2017	1.5	
10/5/2017	1.4	
3/16/2018	1.5	
10/5/2018	1.5	
4/9/2019	1.6	
10/1/2019	0.94 (J)	
3/30/2020		1



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	1.6497	
5/18/2016	1.74	
7/6/2016	2.1	
9/8/2016	1.9	
10/18/2016	2.1	
12/7/2016	2	
2/2/2017	2.3	
3/27/2017	2.1	
10/5/2017	1.9	
3/15/2018	1.9	
10/4/2018	2	
4/9/2019	1.9	
10/1/2019	1.3	
3/31/2020		1.3

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	1.4238	
5/18/2016	1.57	
7/7/2016	1.7	
9/8/2016	1.5	
10/19/2016	1.7	
12/7/2016	1.8	
2/3/2017	2	
3/27/2017	1.8	
10/5/2017	5.5 (o)	
12/14/2017	1.5	
3/16/2018	1.9	
10/5/2018	2.2	
12/11/2018	1.8	
4/9/2019	1.8	
10/1/2019	1.1	
3/31/2020		1.1

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	2.461	
5/18/2016	2.61	
7/7/2016	2.8	
9/8/2016	2.3	
10/19/2016	2.4	
12/7/2016	2.2	
2/2/2017	3.4	
3/27/2017	2.7	
10/5/2017	3.3	
3/15/2018	3.6	
5/15/2018	3.2	
10/4/2018	2.4	
4/9/2019	2.6	
10/1/2019	2	
3/31/2020		1.5

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	1.2595	
5/18/2016	1.25	
7/7/2016	1.7	
9/8/2016	1.5	
10/19/2016	1.6	
12/7/2016	1.5	
2/2/2017	1.8	
3/27/2017	1.5	
10/5/2017	1.6	
3/15/2018	1.7	
10/4/2018	1.7	
4/9/2019	1.7	
10/1/2019	1.4	
3/31/2020		1

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	1.5409	
5/19/2016	1.23	
7/7/2016	1.7	
9/8/2016	1.6	
10/19/2016	1.6	
12/7/2016	1.7	
2/3/2017	1.9	
3/27/2017	1.7	
10/5/2017	1.4	
3/15/2018	1.6	
10/5/2018	1.6	
4/8/2019	1.5	
10/1/2019	1.1	
3/26/2020		0.63 (J)

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	2.5045	
5/17/2016	2.47	
7/6/2016	2.9	
9/7/2016	2.8	
10/18/2016	2.8	
12/8/2016	3.1	
2/1/2017	3.8	
3/23/2017	3.4	
10/4/2017	3.7	
3/16/2018	3.2	
10/4/2018	3.2	
4/9/2019	3.3	
10/1/2019	2.2	
3/31/2020		2

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	1.7709	
5/17/2016	1.75	
7/6/2016	2	
9/7/2016	2	
10/18/2016	2	
12/8/2016	2	
2/1/2017	2.2	
3/23/2017	2	
10/4/2017	1.7	
3/16/2018	2.1	
10/4/2018	2.2	
4/8/2019	2.1	
10/1/2019	1.6	
3/31/2020		1.5

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	1.1569	
5/18/2016	1.35	
7/6/2016	1.9	
9/7/2016	1.7	
10/18/2016	1.8	
12/8/2016	1.6	
2/2/2017	2	
3/24/2017	1.3	
10/4/2017	1.7	
3/15/2018	1.9	
10/4/2018	2	
4/8/2019	1.9	
10/1/2019	1.2	
3/30/2020		9.2



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	1.4936	
5/19/2016	1.35	
7/6/2016	1.6	
9/8/2016	1.4	
10/18/2016	1.4	
12/8/2016	1.5	
2/2/2017	1.7	
3/24/2017	2.1	
10/5/2017	2	
3/14/2018	2.1	
10/4/2018	2.3	
12/11/2018	2.3	
1/11/2019	2.8	
4/8/2019	3.2	
10/1/2019	1.8	
3/27/2020		2.5

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	0.9561	
5/19/2016	0.972	
7/6/2016	1.3	
9/8/2016	1	
10/19/2016	1.1	
12/8/2016	1.3	
2/2/2017	1.6	
3/27/2017	1.4	
10/5/2017	1.1	
3/15/2018	1.3	
10/5/2018	1.6	
4/8/2019	1	
10/1/2019	0.91 (J)	
3/27/2020		0.74 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/22/2016	0.119 (J)	
5/17/2016	0.1049 (J)	
7/5/2016	0.1 (J)	
9/7/2016	0.13 (J)	
10/18/2016	0.15 (J)	
12/6/2016	0.11 (J)	
1/31/2017	0.02 (J)	
3/23/2017	0.08 (J)	
10/4/2017	0.07 (J)	
3/14/2018	<0.3	
10/4/2018	0.17 (J)	
4/8/2019	0.057 (J)	
9/30/2019	0.11 (J)	
3/26/2020		0.082 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/22/2016	0.0811 (J)	
5/17/2016	0.0706 (J)	
7/6/2016	0.09 (J)	
9/7/2016	0.04 (J)	
10/18/2016	0.07 (J)	
12/6/2016	0.13 (J)	
2/1/2017	<0.3	
3/24/2017	0.01 (J)	
10/5/2017	<0.3	
3/15/2018	<0.3	
10/4/2018	0.15 (J)	
4/8/2019	0.035 (J)	
9/30/2019	0.099 (J)	
3/26/2020		0.057 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/22/2016	0.1252 (J)	
5/17/2016	0.1091 (J)	
7/5/2016	0.16 (J)	
9/7/2016	0.18 (J)	
10/18/2016	0.13 (J)	
12/7/2016	0.13 (J)	
1/31/2017	0.04 (J)	
3/23/2017	0.08 (J)	
10/4/2017	0.11 (J)	
3/14/2018	<0.3	
10/4/2018	0.25 (J)	
4/8/2019	0.072 (J)	
9/30/2019	0.14 (J)	
3/26/2020		0.12 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/22/2016	0.1415 (J)	
5/17/2016	0.1293 (J)	
7/5/2016	0.21 (J)	
9/7/2016	0.21 (J)	
10/18/2016	0.15 (J)	
12/6/2016	0.19 (J)	
2/1/2017	0.35	
3/23/2017	0.39	
10/4/2017	0.49	
3/15/2018	<0.3	
10/4/2018	0.24 (J)	
4/5/2019	0.31	
9/30/2019	0.15 (J)	
3/26/2020		0.09 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/22/2016	0.1754 (J)	
5/17/2016	0.1385 (J)	
7/6/2016	0.22 (J)	
9/7/2016	0.2 (J)	
10/18/2016	0.16 (J)	
12/6/2016	0.29 (J)	
2/1/2017	0.48	
3/24/2017	0.12 (J)	
10/4/2017	0.2 (J)	
3/15/2018	0.4	
10/4/2018	0.24 (J)	
4/8/2019	0.12 (J)	
9/30/2019	0.17 (J)	
3/26/2020		0.089 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	0.1069 (J)	
5/17/2016	0.0991 (J)	
7/6/2016	0.09 (J)	
9/7/2016	0.13 (J)	
10/18/2016	0.16 (J)	
12/6/2016	0.12 (J)	
2/2/2017	0.07 (J)	
3/27/2017	0.05 (J)	
10/5/2017	0.11 (J)	
3/15/2018	<0.3	
10/4/2018	0.16 (J)	
4/9/2019	0.067 (J)	
10/1/2019	0.07 (J)	
3/27/2020		<0.3



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	0.1459 (J)	
5/19/2016	0.1408 (J)	
7/7/2016	0.2 (J)	
9/8/2016	0.14 (J)	
10/19/2016	0.14 (J)	
12/8/2016	0.16 (J)	
2/2/2017	0.17 (J)	
3/27/2017	0.11 (J)	
10/5/2017	0.13 (J)	
3/16/2018	<0.3	
10/5/2018	0.21 (J)	
4/9/2019	0.1 (J)	
10/1/2019	0.11 (J)	
3/30/2020		0.1 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	0.1652 (J)	
5/18/2016	0.1459 (J)	
7/6/2016	0.21 (J)	
9/8/2016	0.15 (J)	
10/18/2016	0.19 (J)	
12/7/2016	0.24 (J)	
2/2/2017	0.1 (J)	
3/27/2017	0.11 (J)	
10/5/2017	0.13 (J)	
3/15/2018	<0.3	
10/4/2018	0.21 (J)	
4/9/2019	0.1 (J)	
10/1/2019	0.11 (J)	
3/31/2020		0.099 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	0.0905 (J)	
5/18/2016	0.0864 (J)	
7/7/2016	0.16 (J)	
9/8/2016	0.08 (J)	
10/19/2016	0.09 (J)	
12/7/2016	0.11 (J)	
2/3/2017	0.06 (J)	
3/27/2017	0.04 (J)	
10/5/2017	0.05 (J)	
3/16/2018	<0.3	
10/5/2018	0.17 (J)	
4/9/2019	0.056 (J)	
10/1/2019	0.069 (J)	
3/31/2020		0.054 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	0.0445 (J)	
5/18/2016	0.0476 (J)	
7/7/2016	0.12 (J)	
9/8/2016	0.11 (J)	
10/19/2016	0.13 (J)	
12/7/2016	0.23 (J)	
2/2/2017	0.11 (J)	
3/27/2017	0.01 (J)	
10/5/2017	<0.3	
3/15/2018	<0.3	
10/4/2018	0.15 (J)	
4/9/2019	0.063 (J)	
10/1/2019	0.094 (J)	
3/31/2020		<0.3

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	0.0886 (J)	
5/18/2016	0.0839 (J)	
7/7/2016	0.08 (J)	
9/8/2016	0.11 (J)	
10/19/2016	0.1 (J)	
12/7/2016	0.09 (J)	
2/2/2017	0.05 (J)	
3/27/2017	0.08 (J)	
10/5/2017	0.08 (J)	
3/15/2018	<0.3	
10/4/2018	0.14 (J)	
4/9/2019	0.063 (J)	
10/1/2019	0.079 (J)	
3/31/2020		0.055 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	0.1064 (J)	
5/19/2016	0.0928 (J)	
7/7/2016	0.13 (J)	
9/8/2016	0.12 (J)	
10/19/2016	0.1 (J)	
12/7/2016	0.1 (J)	
2/3/2017	0.12 (J)	
3/27/2017	0.14 (J)	
10/5/2017	0.09 (J)	
3/15/2018	<0.3	
10/5/2018	0.18 (J)	
4/8/2019	0.057 (J)	
10/1/2019	0.079 (J)	
3/26/2020		0.064 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	0.0582 (J)	
5/17/2016	0.0571 (J)	
7/6/2016	0.29 (J)	
9/7/2016	0.08 (J)	
10/18/2016	0.09 (J)	
12/8/2016	0.06 (J)	
2/1/2017	0.33	
3/23/2017	0.07 (J)	
10/4/2017	<0.3	
3/16/2018	<0.3	
10/4/2018	0.16 (J)	
4/9/2019	0.061 (J)	
10/1/2019	0.064 (J)	
3/31/2020		<0.3

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	0.0791 (J)	
5/17/2016	0.0712 (J)	
7/6/2016	0.28 (J)	
9/7/2016	0.08 (J)	
10/18/2016	0.07 (J)	
12/8/2016	0.13 (J)	
2/1/2017	0.24 (J)	
3/23/2017	0.04 (J)	
10/4/2017	0.03 (J)	
3/16/2018	<0.3	
10/4/2018	0.17 (J)	
4/8/2019	<0.3	
10/1/2019	0.063 (J)	
3/31/2020		0.053 (J)



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	0.2004 (J)	
5/18/2016	0.1766 (J)	
7/6/2016	0.39	
9/7/2016	0.53	
10/18/2016	0.24 (J)	
12/8/2016	0.24 (J)	
2/2/2017	0.3 (J)	
3/24/2017	0.22 (J)	
10/4/2017	0.19 (J)	
3/15/2018	0.37	
10/4/2018	0.19 (J)	
4/8/2019	0.17 (J)	
10/1/2019	0.16 (J)	
3/30/2020		0.16 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	0.1537 (J)	
5/19/2016	0.1414 (J)	
7/6/2016	0.15 (J)	
9/8/2016	0.35	
10/18/2016	0.17 (J)	
12/8/2016	0.15 (J)	
2/2/2017	0.1 (J)	
3/24/2017	0.14 (J)	
10/5/2017	0.15 (J)	
3/14/2018	0.4	
5/16/2018	0.32	
10/4/2018	0.28 (J)	
4/8/2019	0.1 (J)	
10/1/2019	0.13 (J)	
3/27/2020		0.12 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	0.0993 (J)	
5/19/2016	0.0936 (J)	
7/6/2016	0.09 (J)	
9/8/2016	0.11 (J)	
10/19/2016	0.1 (J)	
12/8/2016	0.11 (J)	
2/2/2017	0.05 (J)	
3/27/2017	0.07 (J)	
10/5/2017	0.06 (J)	
3/15/2018	<0.3	
10/5/2018	0.18 (J)	
4/8/2019	0.058 (J)	
10/1/2019	0.078 (J)	
3/27/2020		0.078 (J)

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:09 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/22/2016	7.07	
5/17/2016	7	
7/5/2016	6.88	
9/7/2016	7.24	
10/18/2016	6.86	
12/6/2016	6.98	
1/31/2017	6.63	
3/23/2017	7.12	
10/4/2017	6.83	
3/14/2018	6.66	
10/4/2018	6.92	
4/8/2019	6.86	
9/30/2019	7.15	
3/26/2020		7.02

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/22/2016	7	
5/17/2016	6.77	
7/6/2016	6.64	
9/7/2016	6.83	
10/18/2016	6.58	
12/6/2016	6.66	
2/1/2017	6.5	
3/24/2017	6.72	
10/5/2017	6.69	
3/15/2018	6.48	
10/4/2018	6.66	
4/8/2019	6.61	
9/30/2019	6.86	
3/26/2020		6.83

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/22/2016	7.19	
5/17/2016	6.94	
7/5/2016	6.98	
9/7/2016	6.86	
10/18/2016	6.71	
12/7/2016	6.71	
1/31/2017	6.95	
3/23/2017	7.04	
10/4/2017	6.86	
3/14/2018	6.76	
10/4/2018	6.62	
4/8/2019	6.79	
9/30/2019	6.86	
3/26/2020		7.07

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/22/2016	7.11	
5/17/2016	6.95	
7/5/2016	6.55	
9/7/2016	6.81	
10/18/2016	6.64	
12/6/2016	6.34	
2/1/2017	6.68	
3/23/2017	6.8	
10/4/2017	6.64	
3/15/2018	6.88	
10/4/2018	6.62	
4/5/2019	6.77	
9/30/2019	6.73	
3/26/2020		6.87

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/22/2016	7.14	
5/17/2016	6.67	
7/6/2016	6.53	
9/7/2016	6.72	
10/18/2016	6.73	
12/6/2016	6.61	
2/1/2017	6.7	
3/24/2017	6.77	
10/4/2017	6.52	
3/15/2018	7.11	
10/4/2018	6.72	
4/8/2019	6.82	
9/30/2019	6.77	
3/26/2020		6.74



# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	7.56	
5/17/2016	7.46	
7/6/2016	7.24	
9/7/2016	7.4	
10/18/2016	7.11	
12/6/2016	7.32	
2/2/2017	7.19	
3/27/2017	7.48	
10/5/2017	7.13	
3/15/2018	7.08	
10/4/2018	7.26	
4/9/2019	7.22	
10/1/2019	7.07	
3/27/2020		6.82

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	7.71	
5/18/2016	7.59	
7/7/2016	7.55	
9/8/2016	7.54	
10/19/2016	7.66	
12/8/2016	7.47	
2/2/2017	7.64	
3/27/2017	7.59	
10/5/2017	7.65	
3/16/2018	7.51	
10/5/2018	7.57	
4/9/2019	7.48	
10/1/2019	7.65	
3/30/2020		7.65

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	7.69	
5/18/2016	7.49	
7/6/2016	7.39	
9/8/2016	7.57	
10/18/2016	7.35	
12/7/2016	7.42	
2/2/2017	7.43	
3/27/2017	7.53	
10/5/2017	7.36	
3/15/2018	7.54	
10/4/2018	7.44	
4/9/2019	7.4	
10/1/2019	7.31	
3/31/2020		7.62

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	7.55	
5/18/2016	7.32	
7/7/2016	7.39	
9/8/2016	7.34	
10/19/2016	7.35	
12/7/2016	7.35	
2/3/2017	7.37	
3/27/2017	7.26	
10/5/2017	7.2	
3/16/2018	7.13	
5/15/2018	7.18	
10/5/2018	7.07	
12/11/2018	7.16	
4/9/2019	7.26	
10/1/2019	7.16	
3/31/2020		7.57

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	6.4	
5/18/2016	6.44	
7/7/2016	6.12	
9/8/2016	7.2	
10/19/2016	7.11	
12/7/2016	7.24	
2/2/2017	6.86	
3/27/2017	6.51	
10/5/2017	5.97	
3/15/2018	7.01	
10/4/2018	6.33	
4/9/2019	6.46	
10/1/2019	6.9	
3/31/2020		6.33

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	7.72	
5/18/2016	7.77	
7/7/2016	7.65	
9/8/2016	7.89	
10/19/2016	7.64	
12/7/2016	7.72	
2/2/2017	7.56	
3/27/2017	7.69	
10/5/2017	7.53	
3/15/2018	7.5	
10/4/2018	7.52	
4/9/2019	7.49	
10/1/2019	7.38	
11/6/2019	7.66	
3/31/2020		7.8

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	7.48	
5/19/2016	7.24	
7/7/2016	7.18	
9/8/2016	7.17	
10/19/2016	7.05	
12/7/2016	7.16	
2/3/2017	7.27	
3/27/2017	7.24	
10/5/2017	7.25	
3/15/2018	7.05	
10/5/2018	6.97	
4/8/2019	6.88	
10/1/2019	7	
3/26/2020		6.88

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	7.1	
5/17/2016	6.88	
7/6/2016	6.75	
9/7/2016	6.95	
10/18/2016	6.9	
12/8/2016	6.55	
2/1/2017	6.81	
3/23/2017	6.8	
10/4/2017	7.12	
3/16/2018	6.72	
10/4/2018	6.52	
4/9/2019	6.72	
10/1/2019	6.81	
3/31/2020		6.82



# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	7.29	
5/17/2016	7.1	
7/6/2016	7	
9/7/2016	7.07	
10/18/2016	6.81	
12/8/2016	6.85	
2/1/2017	7.05	
3/23/2017	6.97	
10/4/2017	7.17	
3/16/2018	6.8	
10/4/2018	6.93	
4/8/2019	7	
10/1/2019	6.97	
3/31/2020		7.17

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	6.36	
5/18/2016	6.21	
7/6/2016	5.88	
9/7/2016	5.77	
10/18/2016	5.9	
12/9/2016	5.73	
2/2/2017	6.29	
3/24/2017	6.32	
10/4/2017	6.03	
3/15/2018	6.05	
10/4/2018	5.92	
4/8/2019	6.26	
10/1/2019	6.09	
3/30/2020		6.48

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	7.46	
5/18/2016	7.4	
7/6/2016	7.36	
9/8/2016	7.45	
10/18/2016	7.5	
12/8/2016	7.28	
2/2/2017	7.45	
3/24/2017	7.28	
10/5/2017	7.53	
3/14/2018	7.28	
10/4/2018	7.22	
4/8/2019	6.91	
6/18/2019	6.85	
6/27/2019	7.05	
10/1/2019	7.11	
3/27/2020		7.01

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	7.2	
5/18/2016	6.96	
7/6/2016	6.89	
9/8/2016	6.93	
10/19/2016	6.84	
12/8/2016	6.54	
2/2/2017	6.72	
3/27/2017	6.56	
10/5/2017	7.03	
3/15/2018	6.66	
10/5/2018	6.41	
4/8/2019	6.72	
10/1/2019	6.77	
3/27/2020		7.11

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/22/2016	4.4409	
5/17/2016	4.43	
7/5/2016	4.6	
9/7/2016	4.8	
10/18/2016	4.7	
12/6/2016	4.7	
1/31/2017	5.1	
3/23/2017	4.7	
10/4/2017	5	
3/14/2018	5.1	
10/4/2018	5.2	
4/8/2019	4.6	
9/30/2019	4.9	
3/26/2020		5

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/22/2016	11.6823	
5/17/2016	11.4	
7/6/2016	12	
9/7/2016	13	
10/18/2016	13	
12/6/2016	12	
2/1/2017	13	
3/24/2017	12	
10/5/2017	13	
3/15/2018	12.2	
10/4/2018	15.6	
4/8/2019	13.2	
9/30/2019	11.5	
3/26/2020		10.8

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/22/2016	13.0789	
5/17/2016	15.3	
7/5/2016	15	
9/7/2016	16	
10/18/2016	16	
12/7/2016	15	
1/31/2017	13	
3/23/2017	12	
10/4/2017	12	
3/14/2018	13.9	
10/4/2018	17.4	
4/8/2019	18.1	
9/30/2019	17.5	
3/26/2020		15.6

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/22/2016	107.476	
5/17/2016	106	
7/5/2016	110	
9/7/2016	83	
10/18/2016	110	
12/6/2016	220	
2/1/2017	190	
3/23/2017	160	
10/4/2017	140	
3/15/2018	119	
10/4/2018	117	
4/5/2019	131	
9/30/2019	118	
3/26/2020		95.8



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/22/2016	302.2975	
5/17/2016	213	
7/6/2016	280	
9/7/2016	160	
10/18/2016	120	
12/6/2016	210	
2/1/2017	200	
3/24/2017	140	
10/4/2017	140	
3/15/2018	167	
10/4/2018	209	
4/8/2019	248	
9/30/2019	117	
3/26/2020		128

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	14.6529	
5/17/2016	13.3	
7/6/2016	10	
9/7/2016	10	
10/18/2016	10	
12/6/2016	11	
2/2/2017	11	
3/27/2017	33	
10/5/2017	16	
3/15/2018	33.9	
5/15/2018	29.1	
10/4/2018	29.5	
4/9/2019	21.4	
10/1/2019	13.4	
3/27/2020		10.8

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	10.1818	
5/19/2016	9.58	
7/7/2016	9.6	
9/8/2016	9.4	
10/19/2016	9.9	
12/8/2016	14	
2/2/2017	13	
3/27/2017	12	
10/5/2017	12	
3/16/2018	11.7	
10/5/2018	10.6	
4/9/2019	11.3	
10/1/2019	8.9	
3/30/2020		9.7

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	16.8473	
5/18/2016	18.4	
7/6/2016	17	
9/8/2016	16	
10/18/2016	19	
12/7/2016	13	
2/2/2017	14	
3/27/2017	18	
10/5/2017	16	
3/15/2018	14.8	
10/4/2018	15.9	
4/9/2019	16.7	
10/1/2019	14.7	
3/31/2020		17.8

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	22.9683	
5/18/2016	19.2	
7/7/2016	31	
9/8/2016	30	
10/19/2016	32	
12/7/2016	26	
2/3/2017	27	
3/27/2017	30	
10/5/2017	32	
3/16/2018	37.5	
5/15/2018	41	
10/5/2018	38.9	
12/11/2018	41.8	
4/9/2019	50.3	
6/18/2019	38.7	
6/27/2019	46	
10/1/2019	52.3	
11/6/2019	47.3	
3/31/2020		53.6

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	24.8075	
5/18/2016	26.2	
7/7/2016	31	
9/8/2016	33	
10/19/2016	31	
12/7/2016	19	
2/2/2017	52	
3/27/2017	29	
10/5/2017	33	
3/15/2018	38	
10/4/2018	19.3	
4/9/2019	19.9	
10/1/2019	46.3	
3/31/2020		29.9

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	9.1183	
5/18/2016	6.88	
7/7/2016	6.8	
9/8/2016	6.8	
10/19/2016	7.5	
12/7/2016	11	
2/2/2017	9.9	
3/27/2017	8.4	
10/5/2017	7.4	
3/15/2018	8.2	
10/4/2018	6.4	
4/9/2019	11	
10/1/2019	1.9	
3/31/2020		10.9

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	6.2867	
5/19/2016	5.42	
7/7/2016	5.7	
9/8/2016	5.7	
10/19/2016	5.8	
12/7/2016	5.9	
2/3/2017	38	
3/27/2017	43	
10/5/2017	8.3	
3/15/2018	14	
10/5/2018	9.3	
4/8/2019	6.2	
10/1/2019	5.8	
3/26/2020		14.5



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	76.011	
5/17/2016	76.2	
7/6/2016	74	
9/7/2016	64	
10/18/2016	65	
12/8/2016	100	
2/1/2017	150	
3/23/2017	130	
10/4/2017	71	
3/16/2018	77.4	
10/4/2018	90.3	
4/9/2019	83.6	
10/1/2019	68.1	
3/31/2020		92.6

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	87.512	
5/17/2016	101	
7/6/2016	110	
9/7/2016	97	
10/18/2016	120	
12/8/2016	100	
2/1/2017	110	
3/23/2017	110	
10/4/2017	130	
12/14/2017	130	
1/18/2018	110	
3/16/2018	93.6	
10/4/2018	137	
12/11/2018	110	
4/8/2019	131	
6/19/2019	108	
10/1/2019	71.7	
3/31/2020		106

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	90.229	
5/18/2016	100	
7/6/2016	130	
9/7/2016	130	
10/18/2016	140	
12/8/2016	140	
2/2/2017	71	
3/24/2017	68	
10/4/2017	120	
3/15/2018	118	
10/4/2018	167	
4/8/2019	97.1	
10/1/2019	120	
3/30/2020		64.6

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	26.3455	
5/19/2016	31.7	
7/6/2016	36	
9/8/2016	45	
10/18/2016	49	
12/8/2016	50	
2/2/2017	51	
3/24/2017	46	
10/5/2017	48	
3/14/2018	36.8	
10/4/2018	45.4	
4/8/2019	39.9	
10/1/2019	47.1	
3/27/2020		31.5

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	61.8335	
5/19/2016	64.3	
7/6/2016	69	
9/8/2016	68	
10/19/2016	69	
12/8/2016	69	
2/2/2017	76	
3/27/2017	68	
10/5/2017	74	
3/15/2018	57.8	
10/5/2018	81.9	
12/11/2018	73.6	
4/8/2019	73.5	
10/1/2019	72.2	
3/27/2020		54

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-1	GWA-1
3/22/2016	78	
5/17/2016	67	
7/5/2016	87	
9/7/2016	125	
10/18/2016	133	
12/6/2016	151	
1/31/2017	135	
3/23/2017	72	
10/4/2017	91	
3/14/2018	99	
10/4/2018	112	
4/8/2019	91	
9/30/2019	126	
3/26/2020		73

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-11	GWA-11
3/22/2016	112	
5/17/2016	121	
7/6/2016	98	
9/7/2016	128	
10/18/2016	115	
12/6/2016	153	
2/1/2017	183	
3/24/2017	121	
10/5/2017	113	
3/15/2018	115	
10/4/2018	135	
4/8/2019	142	
9/30/2019	134	
3/26/2020		76

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-2	GWA-2
3/22/2016	233	
5/17/2016	197	
7/5/2016	218	
9/7/2016	240	
10/18/2016	221	
12/7/2016	235	
1/31/2017	253	
3/23/2017	190	
10/4/2017	192	
3/14/2018	204	
10/4/2018	233	
4/8/2019	209	
9/30/2019	242	
3/26/2020		222



# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-3	GWA-3
3/22/2016	451	
5/17/2016	430	
7/5/2016	418	
9/7/2016	443	
10/18/2016	415	
12/6/2016	653	
2/1/2017	615	
3/23/2017	506	
10/4/2017	492	
3/15/2018	448	
10/4/2018	472	
4/5/2019	456	
9/30/2019	475	
3/26/2020		450

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWA-4	GWA-4
3/22/2016	686	
5/17/2016	533	
7/6/2016	646	
9/7/2016	493	
10/18/2016	455	
12/6/2016	597	
2/1/2017	638	
3/24/2017	579	
10/4/2017	440	
3/15/2018	381	
10/4/2018	490	
4/8/2019	522	
9/30/2019	455	
3/26/2020		466

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	182	
5/17/2016	178	
7/6/2016	135	
9/7/2016	165	
10/18/2016	113	
12/6/2016	194	
2/2/2017	160	
3/27/2017	252	
10/5/2017	177	
3/15/2018	216	
10/4/2018	222	
4/9/2019	213	
10/1/2019	186	
3/27/2020		118

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	205	
5/19/2016	204	
7/7/2016	181	
9/8/2016	193	
10/19/2016	231	
12/8/2016	166	
2/2/2017	191	
3/27/2017	427	
10/5/2017	207	
3/16/2018	199	
10/5/2018	235	
4/9/2019	212	
10/1/2019	196	
3/30/2020		217

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	232	
5/18/2016	245	
7/6/2016	231	
9/8/2016	252	
10/18/2016	288	
12/7/2016	220	
2/2/2017	220	
3/27/2017	393	
10/5/2017	242	
3/15/2018	213	
10/4/2018	231	
4/9/2019	253	
10/1/2019	229	
3/31/2020		233

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	208	
5/18/2016	213	
7/7/2016	212	
9/8/2016	201	
10/19/2016	276	
12/7/2016	186	
2/3/2017	219	
3/27/2017	239	
10/5/2017	216	
3/16/2018	216	
10/5/2018	256	
4/9/2019	267	
10/1/2019	271	
3/31/2020		267

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	110	
5/18/2016	153	
7/7/2016	151	
9/8/2016	285	
10/19/2016	314	
12/7/2016	252	
2/2/2017	138	
3/27/2017	88	
10/5/2017	111	
3/15/2018	219	
10/4/2018	152	
4/9/2019	167	
10/1/2019	336	
11/6/2019	336	
11/26/2019	236	
3/31/2020		111

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	206	
5/18/2016	212	
7/7/2016	206	
9/8/2016	214	
10/19/2016	269	
12/7/2016	199	
2/2/2017	211	
3/27/2017	324	
10/5/2017	219	
3/15/2018	190	
10/4/2018	215	
4/9/2019	222	
10/1/2019	220	
3/31/2020		195



# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	168	
5/19/2016	173	
7/7/2016	144	
9/8/2016	179	
10/19/2016	209	
12/7/2016	156	
2/3/2017	276	
3/27/2017	295	
10/5/2017	192	
3/15/2018	169	
10/5/2018	210	
4/8/2019	191	
10/1/2019	203	
3/26/2020		193

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	379	
5/17/2016	349	
7/6/2016	346	
9/7/2016	382	
10/18/2016	461	
12/8/2016	379	
2/1/2017	511	
3/23/2017	443	
10/4/2017	359	
3/16/2018	390	
10/4/2018	385	
4/9/2019	371	
10/1/2019	380	
3/31/2020		408

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	310	
5/17/2016	280	
7/6/2016	280	
9/7/2016	324	
10/18/2016	307	
12/8/2016	281	
2/1/2017	354	
3/23/2017	302	
10/4/2017	365	
12/14/2017	406	
1/18/2018	404	
3/16/2018	317	
10/4/2018	371	
4/8/2019	353	
10/1/2019	348	
3/31/2020		349

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	253	
5/18/2016	276	
7/6/2016	239	
9/7/2016	247	
10/18/2016	233	
12/8/2016	373	
2/2/2017	236	
3/24/2017	291	
10/4/2017	264	
3/15/2018	254	
10/4/2018	287	
4/8/2019	295	
10/1/2019	277	
3/30/2020		216

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	239	
5/19/2016	236	
7/6/2016	218	
9/8/2016	225	
10/18/2016	200	
12/8/2016	196	
2/2/2017	231	
3/24/2017	250	
10/5/2017	309	
12/14/2017	322	
1/18/2018	322	
3/14/2018	263	
10/4/2018	292	
4/8/2019	438	
10/1/2019	305	
3/27/2020		329

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/12/2020 2:10 PM View: PL's - Federal  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	204	
5/19/2016	215	
7/6/2016	204	
9/8/2016	201	
10/19/2016	272	
12/8/2016	227	
2/2/2017	209	
3/27/2017	305	
10/5/2017	204	
3/15/2018	280	
10/5/2018	236	
4/8/2019	264	
10/1/2019	237	
3/27/2020		192

FIGURE G.

# Trend Test Summary (Federal) - Significant Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 8:30 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
<b>Boron (mg/L)</b>	<b>GWC-8</b>	<b>0.007378</b>	<b>58</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (s.u.)</b>	<b>GWC-10</b>	<b>-0.1134</b>	<b>-51</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>



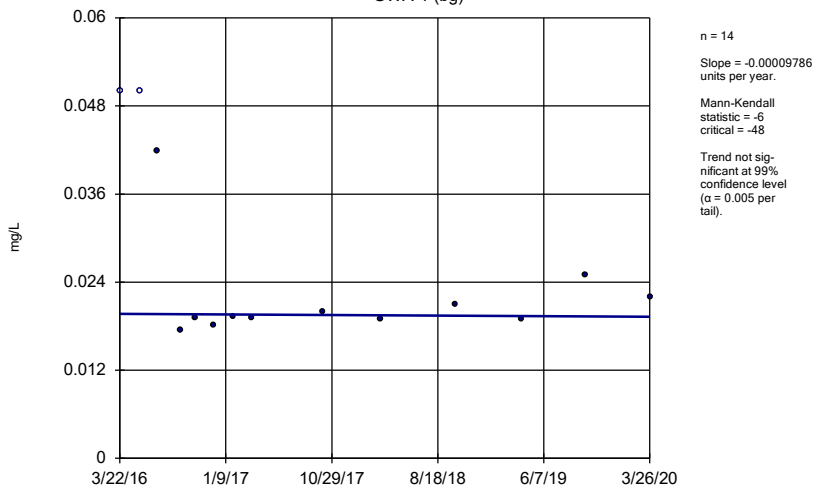
# Trend Test Summary (Federal) - All Results

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 8:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-1 (bg)	-0.00009786	-6	-48	No	14	14.29	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-11 (bg)	-0.00009643	-1	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	-0.001436	-15	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-3 (bg)	0.002072	4	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-4 (bg)	-0.003283	-13	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-6	0.001163	28	53	No	15	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GWC-8</b>	<b>0.007378</b>	<b>58</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GWA-1 (bg)	-0.03389	-4	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-11 (bg)	-0.08391	-4	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	-0.5958	-9	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-3 (bg)	0.7795	9	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-4 (bg)	-5.451	-27	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-19	0.1213	3	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	2.471	35	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-1 (bg)	0	8	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-11 (bg)	0.003456	8	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.07228	17	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-3 (bg)	-0.1718	-24	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-4 (bg)	-0.03551	-2	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-7	0.173	30	48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-1 (bg)	-0.0312	-8	-48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-11 (bg)	-0.03008	-9	-48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-2 (bg)	-0.04588	-15	-48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-3 (bg)	-0.01474	-6	-48	No	14	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-4 (bg)	0.01813	17	48	No	14	0	n/a	n/a	0.01	NP
<b>pH (s.u.)</b>	<b>GWC-10</b>	<b>-0.1134</b>	<b>-51</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

### Sen's Slope Estimator

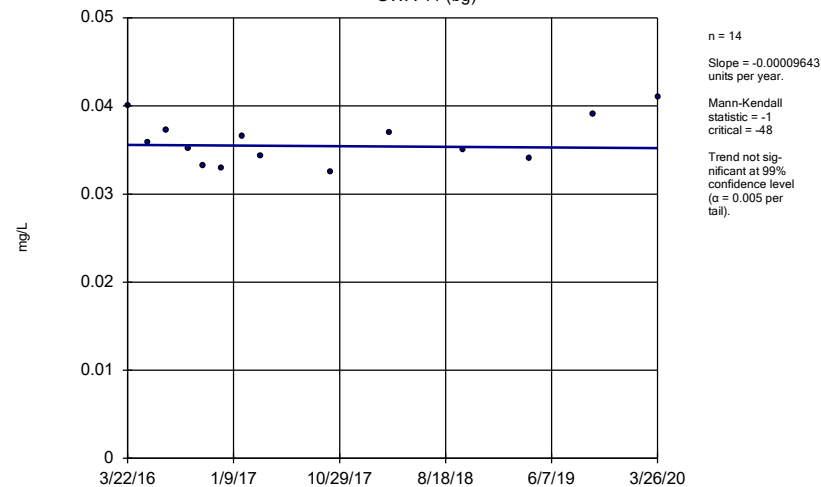
GWA-1 (bg)



Constituent: Boron Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

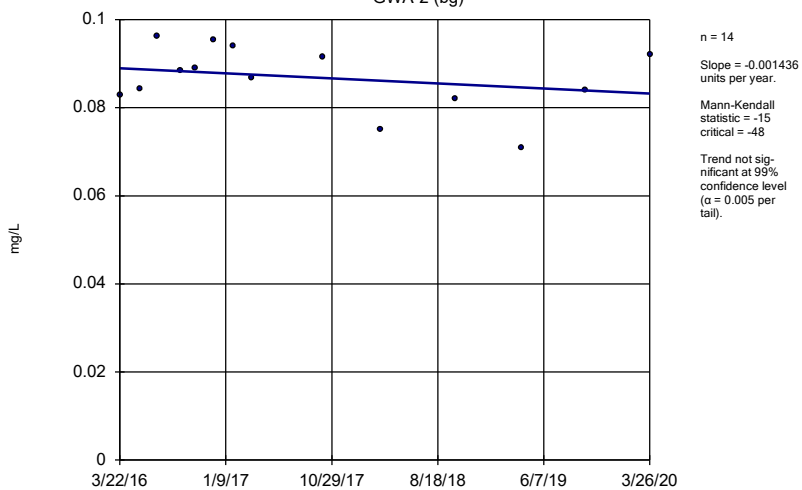
GWA-11 (bg)



Constituent: Boron Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

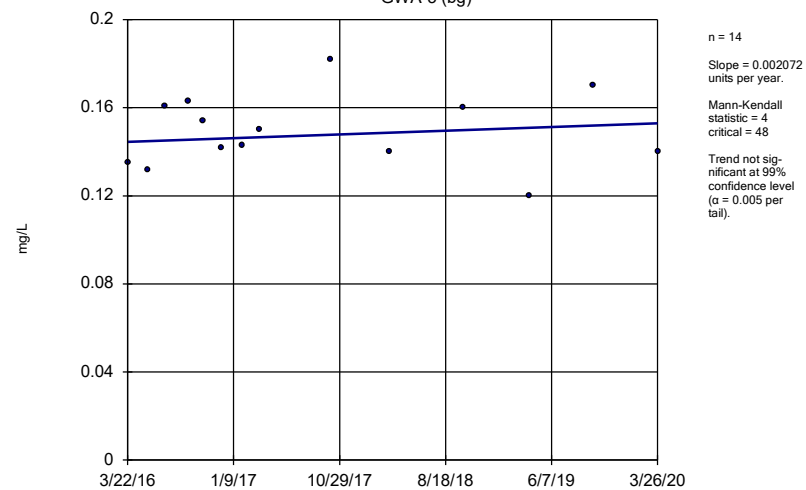
GWA-2 (bg)



Constituent: Boron Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

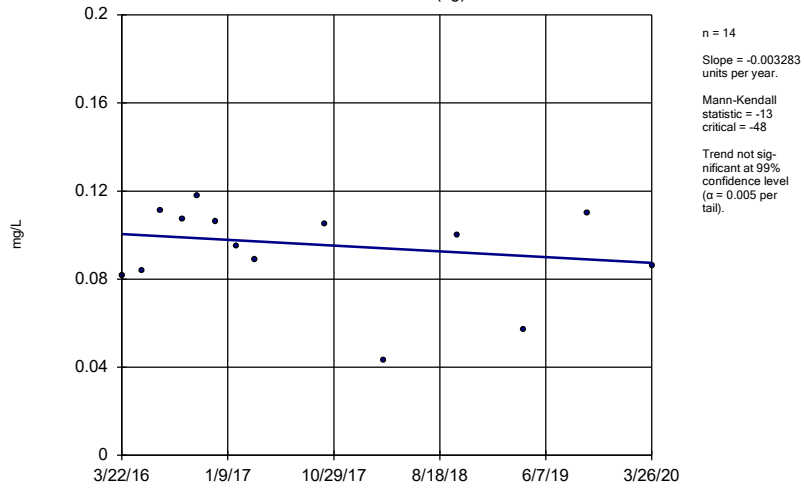
### Sen's Slope Estimator

GWA-3 (bg)



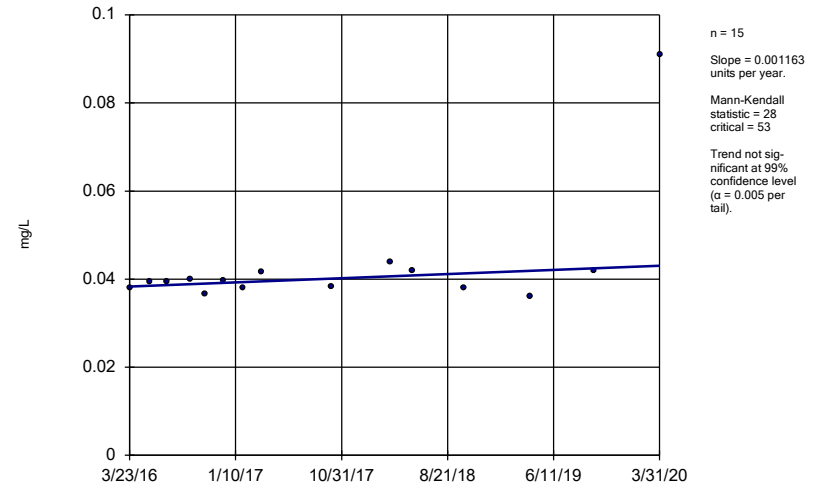
Constituent: Boron Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Sen's Slope Estimator  
GWA-4 (bg)



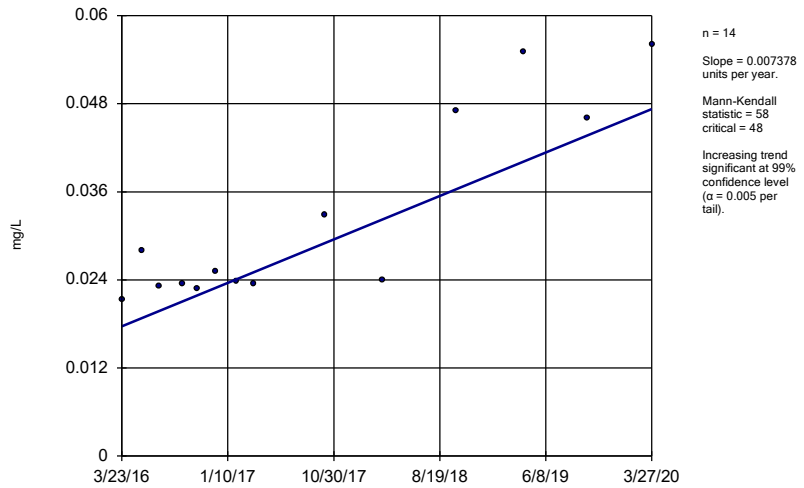
Constituent: Boron Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Sen's Slope Estimator  
GWC-6



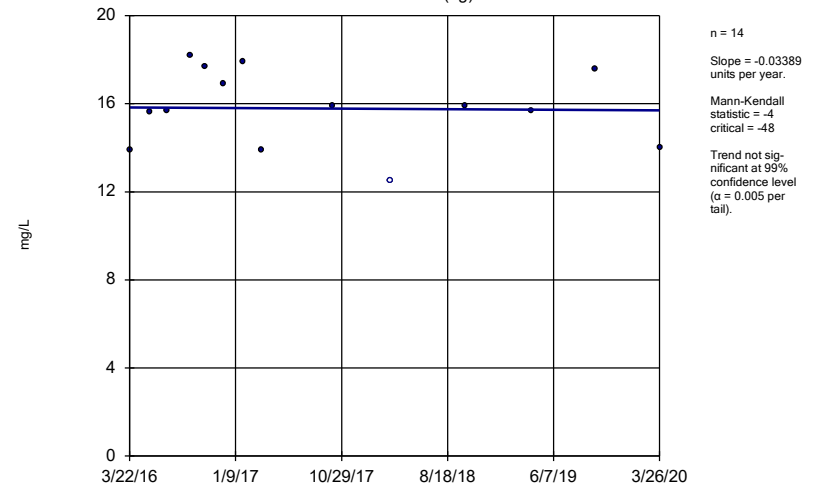
Constituent: Boron Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Sen's Slope Estimator  
GWC-8



Constituent: Boron Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

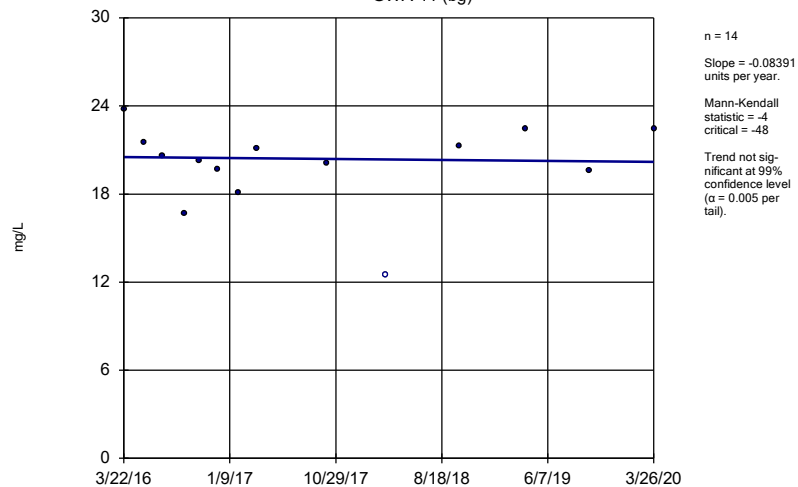
Sen's Slope Estimator  
GWA-1 (bg)



Constituent: Calcium Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

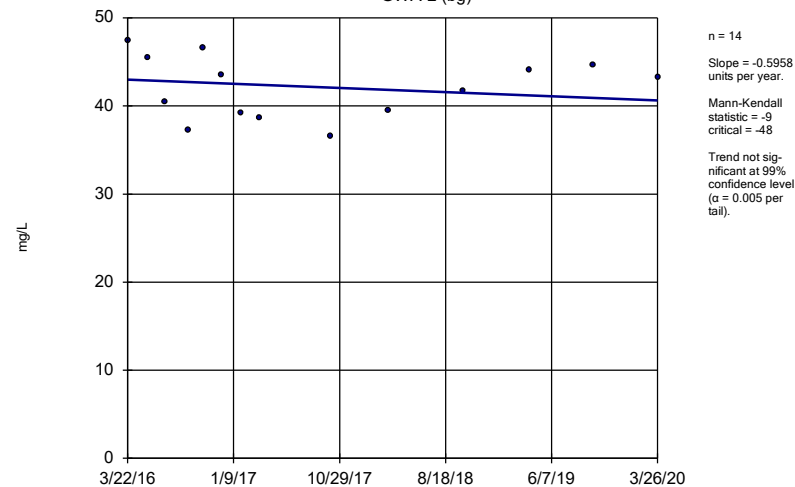
GWA-11 (bg)



Constituent: Calcium Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

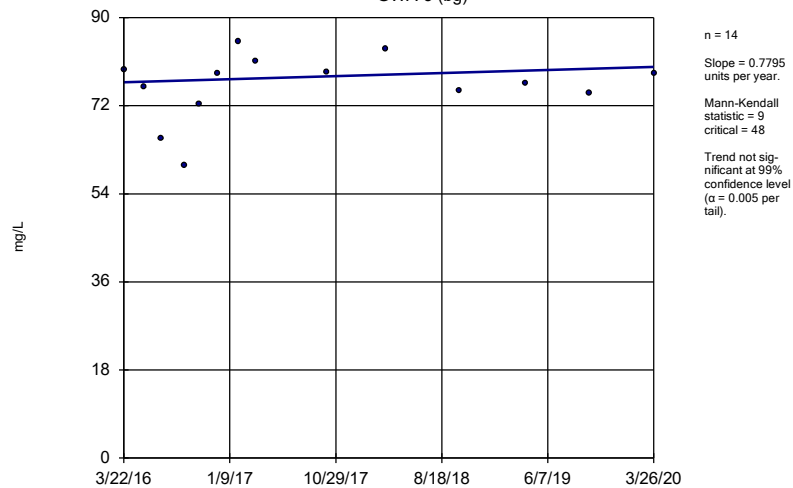
GWA-2 (bg)



Constituent: Calcium Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

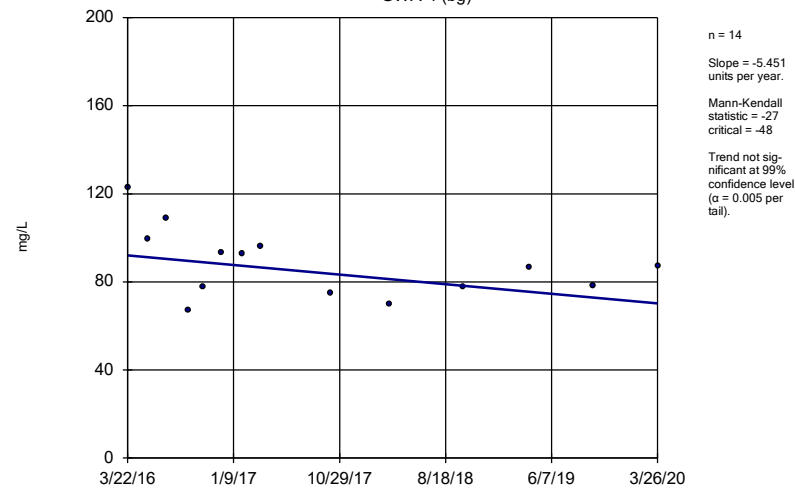
GWA-3 (bg)



Constituent: Calcium Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

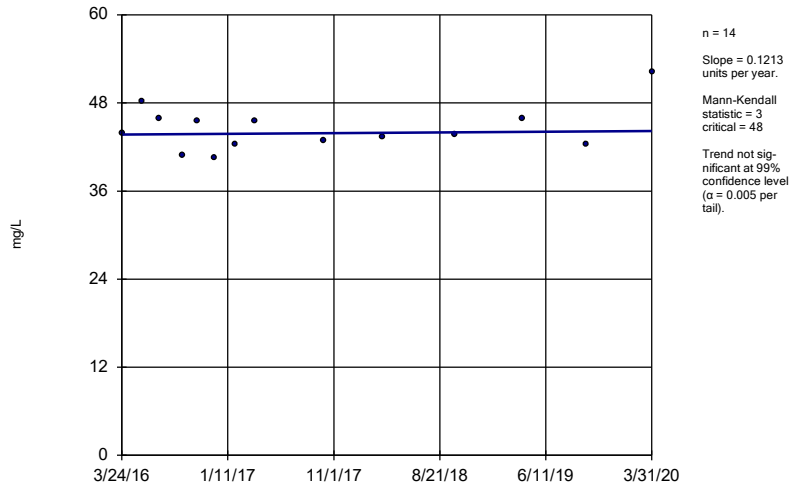
### Sen's Slope Estimator

GWA-4 (bg)



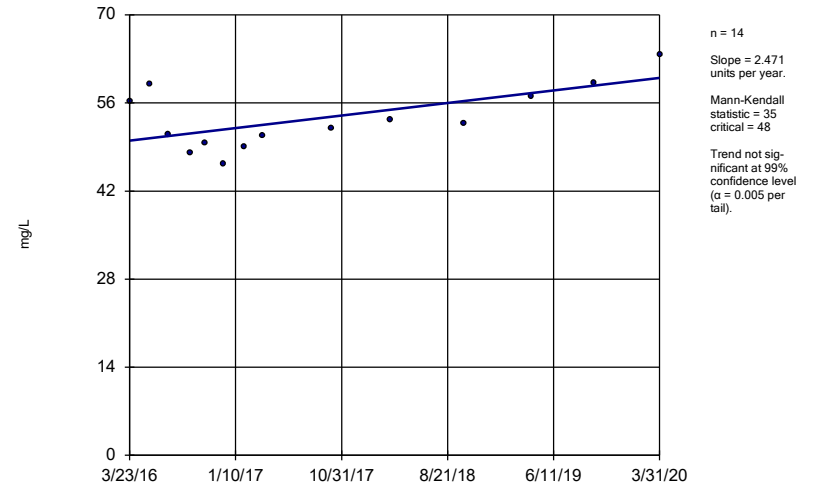
Constituent: Calcium Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Sen's Slope Estimator  
GWC-19



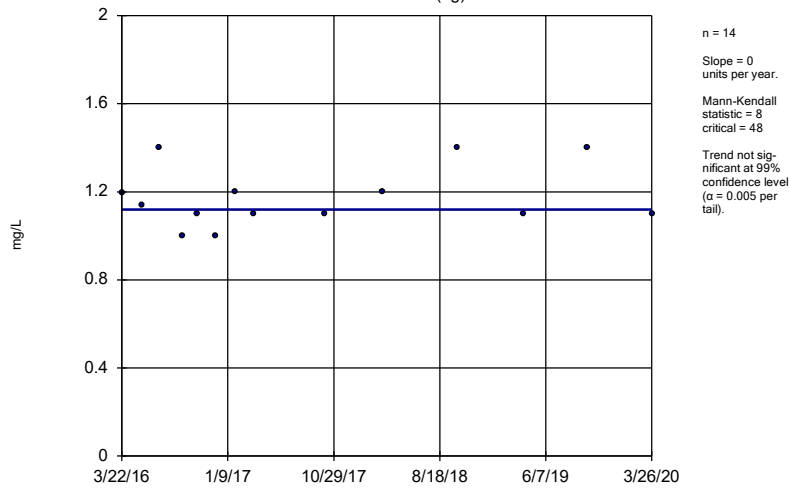
Constituent: Calcium Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Sen's Slope Estimator  
GWC-20



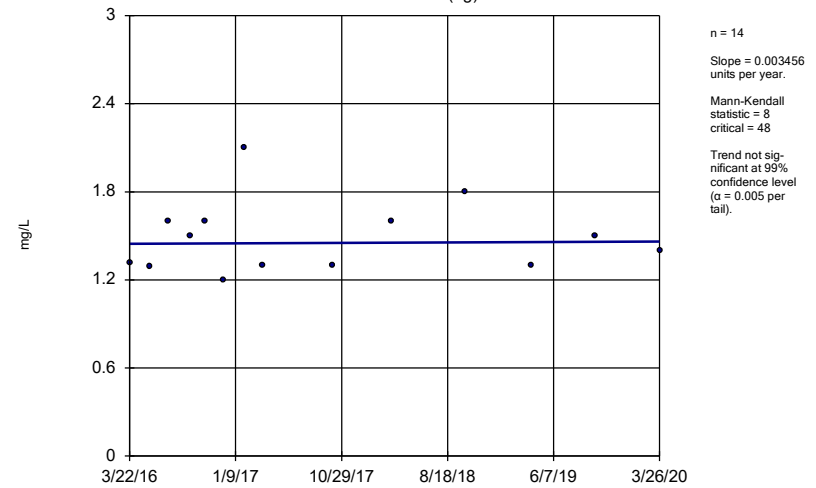
Constituent: Calcium Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

Sen's Slope Estimator  
GWA-1 (bg)



Constituent: Chloride Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

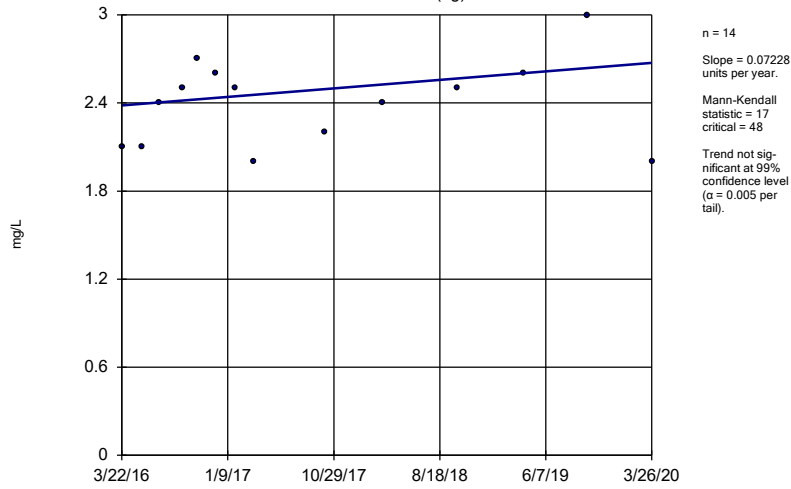
Sen's Slope Estimator  
GWA-11 (bg)



Constituent: Chloride Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

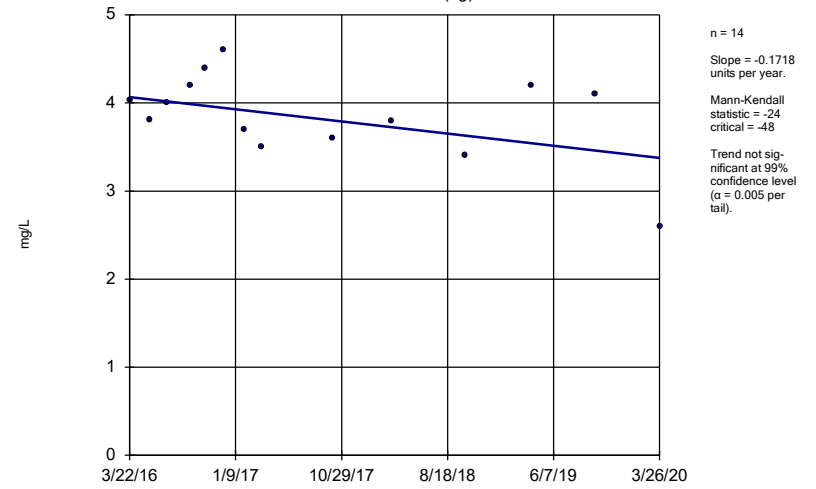
GWA-2 (bg)



Constituent: Chloride Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

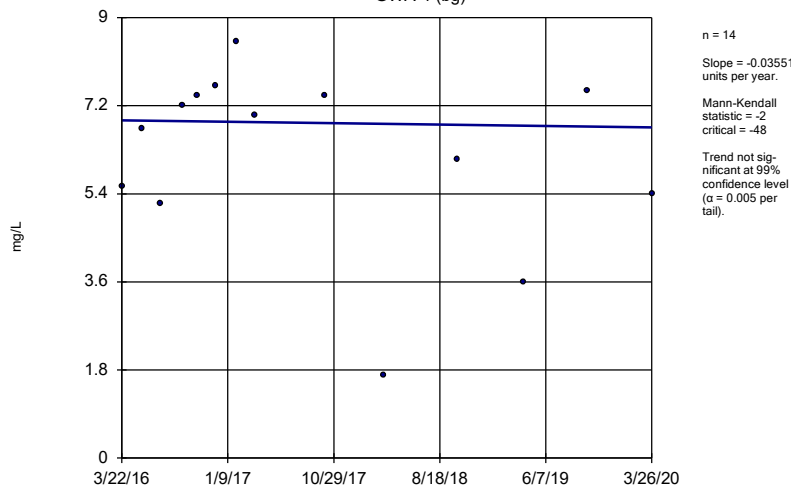
GWA-3 (bg)



Constituent: Chloride Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

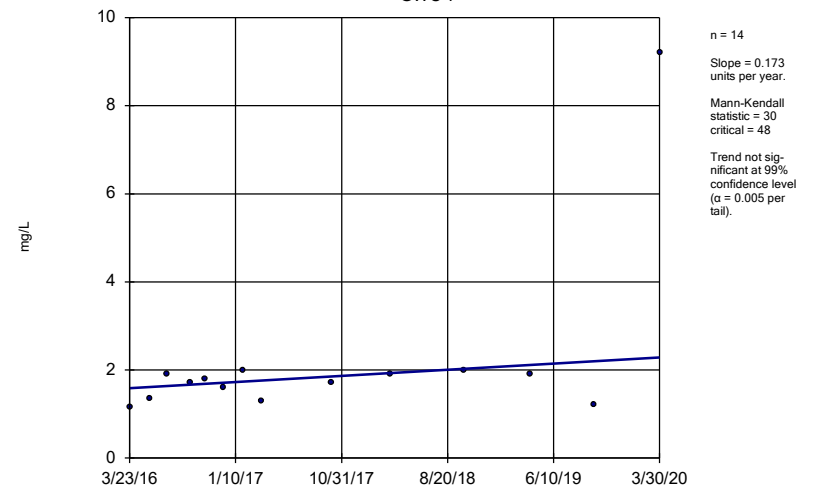
GWA-4 (bg)



Constituent: Chloride Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

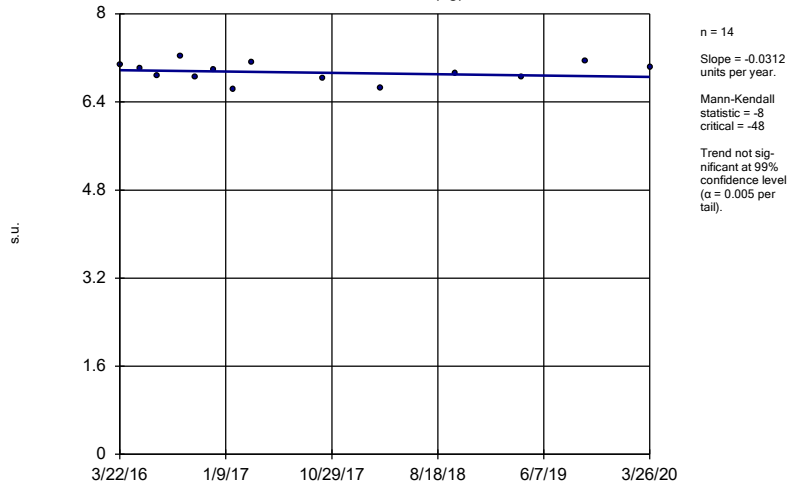
GWC-7



Constituent: Chloride Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

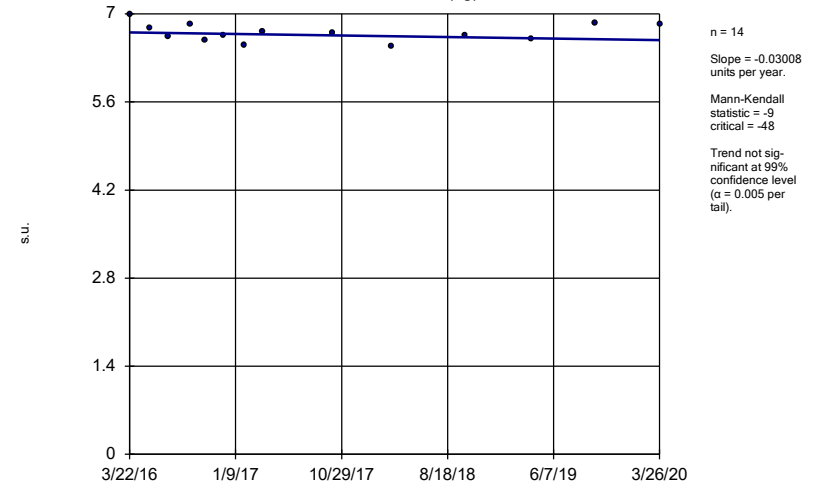
GWA-1 (bg)



Constituent: pH Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

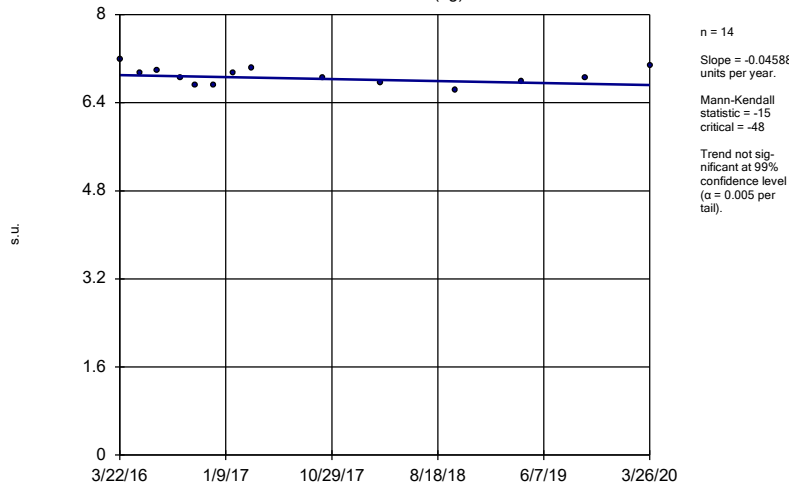
GWA-11 (bg)



Constituent: pH Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

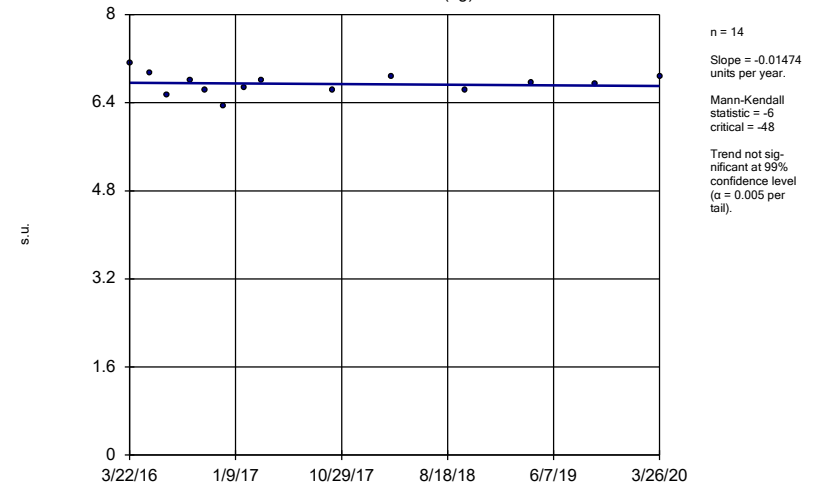
GWA-2 (bg)



Constituent: pH Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

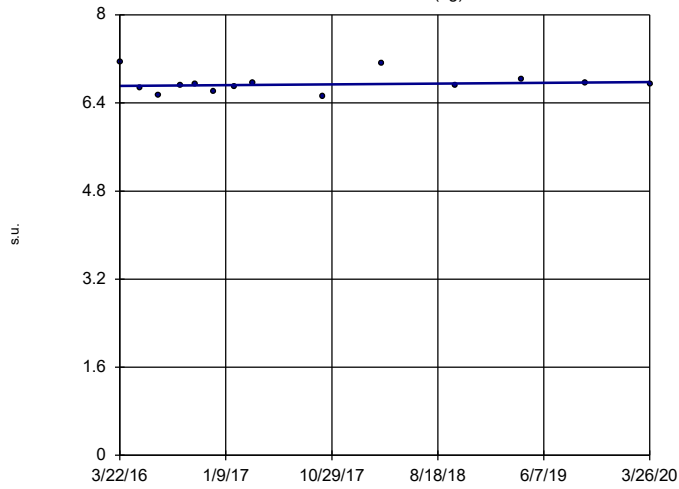
GWA-3 (bg)



Constituent: pH Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-4 (bg)

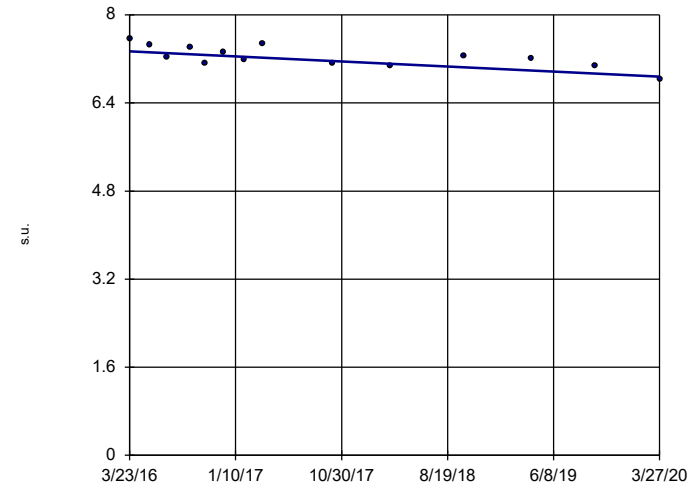


n = 14  
Slope = 0.01813  
units per year.  
Mann-Kendall  
statistic = 17  
critical = 48  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: pH Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWC-10



n = 14  
Slope = -0.1134  
units per year.  
Mann-Kendall  
statistic = -51  
critical = -48  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: pH Analysis Run 8/13/2020 8:26 AM View: Trend Tests - Federal PLs  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill



# ADDENDUM REPORT

# State Prediction Limits

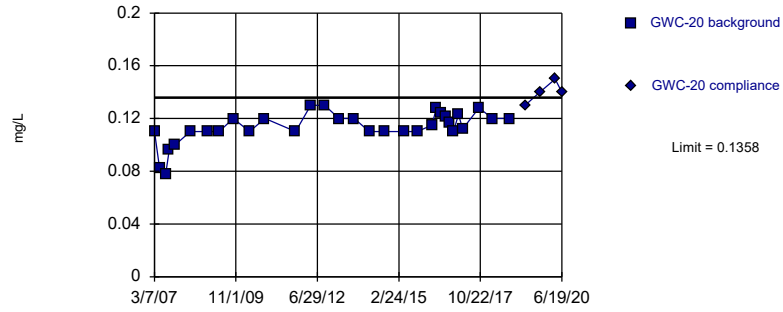
# State Intrawell Prediction Limit Summary - All Resample Results (No Significant)

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/12/2020, 3:05 PM

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-20	0.1358	n/a	6/19/2020	0.14	Yes	31	0.001502	0.0004195	0	None	x^3	0.0002926	Param Intra 1 of 2

Exceeds Limit

### Prediction Limit Intrawell Parametric



# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/12/2020 3:04 PM View: PL's State resample

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	0.11	
5/9/2007	0.082	
7/17/2007	0.078	
8/29/2007	0.096	
11/7/2007	0.1	
5/7/2008	0.11	
12/5/2008	0.11	
4/14/2009	0.11	
9/30/2009	0.12	
4/13/2010	0.11	
10/12/2010	0.12	
10/12/2011	0.11	
4/9/2012	0.13	
9/25/2012	0.13	
3/13/2013	0.12	
9/11/2013	0.12	
3/10/2014	0.11	
9/9/2014	0.11	
4/23/2015	0.11	
9/30/2015	0.11	
3/23/2016	0.115	
5/18/2016	0.128	
7/7/2016	0.124	
9/8/2016	0.121	
10/19/2016	0.117	
12/7/2016	0.11	
2/3/2017	0.123	
3/27/2017	0.112	
10/5/2017	0.128	
3/16/2018	0.12	
10/5/2018	0.12	
4/9/2019		0.13
10/1/2019		0.14
3/31/2020		0.15
6/19/2020		0.14

# Federal Prediction Limits

# Federal Interwell Prediction Limit Summary - All Resample Results (No Significant)

Plant Hammond Client: Southern Company Data: Huffaker Road Landfill Printed 8/13/2020, 4:01 PM

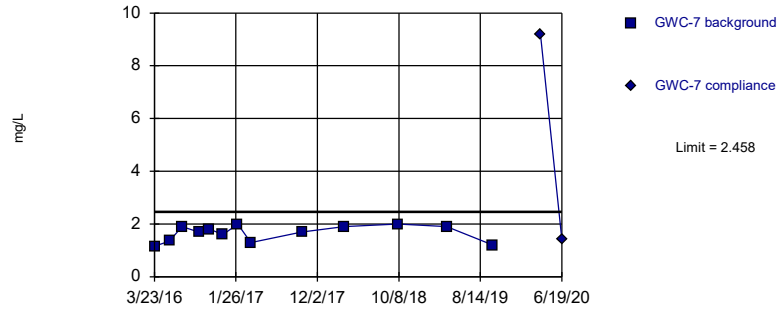
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-6	0.04531	n/a	6/18/2020	0.045J	No	14	0.03949	0.002264	0	None	No	0.0006269	Param Intra 1 of 2
Boron (mg/L)	GWC-8	0.055	n/a	6/19/2020	0.086J	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Calcium (mg/L)	GWC-19	49.63	n/a	6/19/2020	41.3	No	13	43.91	2.178	0	None	No	0.0006269	Param Intra 1 of 2
Calcium (mg/L)	GWC-20	63.52	n/a	6/19/2020	61.4	No	13	52.64	4.139	0	None	No	0.0006269	Param Intra 1 of 2
Chloride (mg/L)	GWC-7	2.458	n/a	6/19/2020	1.4	No	13	1.654	0.3056	0	None	No	0.0006269	Param Intra 1 of 2
pH (s.u.)	GWC-10	7.697	6.845	6/19/2020	7.4	No	13	7.271	0.162	0	None	No	0.0003135	Param Intra 1 of 2





Within Limit

Prediction Limit  
Intrawell Parametric



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/13/2020 4:55 PM View: PL's resampled  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	0.0379 (J)	
5/17/2016	0.0395 (J)	
7/6/2016	0.0393 (J)	
9/7/2016	0.04 (J)	
10/18/2016	0.0366 (J)	
12/8/2016	0.0397 (J)	
2/1/2017	0.0381 (J)	
3/23/2017	0.0416	
10/4/2017	0.0382 (J)	
3/16/2018	0.044	
5/16/2018	0.042	
10/4/2018	0.038 (J)	
4/8/2019	0.036 (J)	
10/1/2019	0.042	
3/31/2020		0.091 (J)
6/18/2020		0.045 (JR)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/13/2020 4:55 PM View: PL's resampled  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	0.0213 (J)	
5/18/2016	0.028 (J)	
7/6/2016	0.0231 (J)	
9/8/2016	0.0234 (J)	
10/18/2016	0.0228 (J)	
12/8/2016	0.0251 (J)	
2/2/2017	0.0238 (J)	
3/24/2017	0.0234 (J)	
10/5/2017	0.0329 (J)	
3/14/2018	0.024 (J)	
10/4/2018	0.047 (J)	
4/8/2019	0.055 (J)	
10/1/2019	0.046	
3/27/2020		0.056 (J)
6/19/2020		0.086 (JR)

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/13/2020 4:01 PM View: PL's resampled  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	43.9	
5/18/2016	48.2	
7/6/2016	45.8	
9/8/2016	40.9	
10/18/2016	45.5	
12/7/2016	40.6	
2/2/2017	42.4	
3/27/2017	45.5	
10/5/2017	42.9	
3/15/2018	43.3	
10/4/2018	43.7	
4/9/2019	45.8	
10/1/2019	42.3	
3/31/2020		52.3
6/19/2020		41.3 (R)

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/13/2020 4:01 PM View: PL's resampled  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	56.3	
5/18/2016	59	
7/7/2016	50.9	
9/8/2016	48	
10/19/2016	49.7	
12/7/2016	46.4	
2/3/2017	49	
3/27/2017	50.7	
10/5/2017	52	
3/16/2018	53.4	
10/5/2018	52.7	
4/9/2019	57.1	
10/1/2019	59.1	
3/31/2020		63.6
6/19/2020		61.4 (R)

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/13/2020 4:01 PM View: PL's resampled  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	1.1569	
5/18/2016	1.35	
7/6/2016	1.9	
9/7/2016	1.7	
10/18/2016	1.8	
12/8/2016	1.6	
2/2/2017	2	
3/24/2017	1.3	
10/4/2017	1.7	
3/15/2018	1.9	
10/4/2018	2	
4/8/2019	1.9	
10/1/2019	1.2	
3/30/2020		9.2
6/19/2020		1.4 (R)

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/13/2020 4:01 PM View: PL's resampled  
Plant Hammond Client: Southern Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	7.56	
5/17/2016	7.46	
7/6/2016	7.24	
9/7/2016	7.4	
10/18/2016	7.11	
12/6/2016	7.32	
2/2/2017	7.19	
3/27/2017	7.48	
10/5/2017	7.13	
3/15/2018	7.08	
10/4/2018	7.26	
4/9/2019	7.22	
10/1/2019	7.07	
3/27/2020		6.82
6/19/2020		7.4 (R)