

2022 Semiannual Groundwater Monitoring and Corrective Action Report

**Plant Yates – Gypsum Landfill
Permit 038-016D(CCR)
Newnan, Georgia**

February 28, 2023



2022 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates – Gypsum Landfill
Permit 038-016D(CCR)
Newman, Georgia

February 28, 2023

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Summary

This summary of the 2022 Semiannual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program July through December 2022 at Georgia Power Company’s (Georgia Power’s) Plant Yates Gypsum Landfill (the site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR material resulting from power generation have historically been transferred and stored at the site. The site is located on the northern portion of the Plant Yates property. The Gypsum Landfill was closed by removal of CCR material. The GA EPD approved Closure Permit No. 038-016D(CCR) for Plant Yates Gypsum Landfill on January 5, 2022.



Plant Yates and the site

Groundwater at the site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. A permit application package for the Gypsum Landfill was submitted in November 2018 to comply with the CCR rule and approved on January 5, 2022 (Permit 038-016D(CCR)). Routine sampling and reporting began in 2019 after the completion of eight background sampling events. Based on groundwater conditions at the site, an assessment monitoring program was established on November 13, 2019.

During the 2022 semiannual reporting period, Arcadis conducted a groundwater sampling event in August 2022. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² parameters in wells provided in the table below. There were no statistically significant levels (SSLs) for Appendix IV³ parameters⁴.

Appendix III Parameter	August 2022
Boron	GWC-2R, GWC-4R

¹ 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228.

⁴ A statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent’s MCL, if available, the USEPA RSL if no MCL is available, or the calculated background interwell prediction limit.

2022 Semiannual Groundwater Monitoring and Corrective Action Report
 PLANT YATES – GYPSUM LANDFILL

Appendix III Parameter	August 2022
Calcium	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R
Chloride	GWC-2R, GWC-4R
Sulfate	GWC-1R, GWC-2R, GWC-5R, GWC-6R
Total Dissolved Solids	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program, the site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the site. Reports will be posted to the website and provided to Georgia Environmental Protection Division (GAEPD) semiannually.

Contents

Summary	ii
Acronyms and Abbreviations.....	vi
Professional Certification	vii
1 Introduction.....	1
1.1 Site Description and Background.....	1
1.2 Site Geology and Hydrogeologic Setting.....	1
1.3 Groundwater Monitoring Well Network and CCR Unit Description.....	2
2 Groundwater Monitoring.....	2
2.1 Monitoring Well Installation and Maintenance	3
2.2 Assessment Monitoring.....	3
3 Sample Methodology and Analysis	3
3.1 Groundwater Flow Direction, Gradient, and Velocity	3
3.2 Groundwater Sampling	4
3.3 Laboratory Analysis	4
3.4 Data Quality Assurance/Quality Control and Validation	5
4 Statistical Analysis.....	5
4.1 Statistical Methods.....	5
4.1.1 Permit-Required Appendix I and II Metals.....	6
4.1.2 Appendix III Monitoring Statistics.....	6
4.1.3 Appendix IV Assessment Monitoring Statistics.....	6
4.2 Statistical Analysis Results.....	7
4.2.1 Permit-Required Appendix I and II Metals.....	7
4.2.2 Appendix III Constituents	7
4.2.3 Appendix IV Assessment Monitoring Constituents.....	8
5 Monitoring Program Status	8
6 Conclusions and Future Actions	8
7 References	8

Tables

Table 1.	Monitoring Well Network Summary
Table 2.	Groundwater Sampling Event Summary
Table 3.	Summary of Groundwater Monitoring Parameters
Table 4.	Summary of Groundwater Elevations
Table 5.	Groundwater Flow Velocity Calculations
Table 6a.	Groundwater Analytical Data
Table 6b.	Upgradient Groundwater Analytical Data
Table 7.	Background Levels and Groundwater Protection Standards

Figures

Figure 1.	Site Location Map
Figure 2.	Plant Yates CCR Removal Areas
Figure 3.	Well Location Map
Figure 4.	Sitewide Groundwater Elevation Map – August 2022
Figure 5.	Groundwater Elevation Map - August 2022

Appendices

A	Laboratory Analytical Reports and Data Validation Reports
B	Field Sampling Reports
C	Statistical Analysis Results

Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
CCR	Coal Combustion Residuals
CCR Units	the combined monitoring systems of AP-3, A, B, and B', and the R6 Landfill
CFR	Code of Federal Regulations
DO	dissolved oxygen
GAEPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
ORP	oxidation-reduction potential
QA/QC	Quality Assurance/Quality Control
SSI	Statistically Significant Increase
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Professional Certification

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates Gypsum Landfill has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual rule (40 Code of Federal Regulations 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).

Arcadis U.S., Inc.



2.28.23

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1 Introduction

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report presents groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Yates Gypsum Landfill (the site) from July 2022 through December 2022. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

The list of analytes included in the groundwater monitoring program was modified to meet the requirements of 40 CFR §§ 257.90 through 257.95 of the Federal CCR Rule through a minor modification in August 2017. A notice of assessment monitoring was placed in the operating record in November 2019 based on statistically significant increases (SSIs) documented in the Supplemental 2019 First Semiannual Groundwater Monitoring Report (ACC 2019). This report presents the results of the August semiannual monitoring events for Appendix III and IV constituents of 40 CFR Part 257, and 40 CFR Part 258 Appendix I and II metals required by the previous state permit.

1.1 Site Description and Background

Plant Yates is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line. The site is approximately 8 miles northwest of the City of Newnan and 13 miles southeast of the City of Carrollton. Plant Yates occupies approximately 2,400 acres. **Figure 1** depicts the site location relative to the surrounding area.

The site ceased accepting CCR before October 19, 2015 and is therefore not subject to federal monitoring requirements. The site was closed following the removal of all gypsum and liner material. A closure certification report was submitted to GAEPD in January 2017. A permit application to comply with GAEPD Rules was submitted in November 2018 and approved on January 5, 2022 (Permit 038-016D(CCR)). Areas where CCR Removal Reports have been submitted to GA EPD are shown in **Figure 2**.

1.2 Site Geology and Hydrogeologic Setting

Plant Yates is located in the Inner Piedmont Physiographic Province of western Georgia, immediately southeast of the Brevard Zone, a regional fault zone that separates the Piedmont from the Blue Ridge. Rock units at Plant Yates are primarily interlayered gneiss and schists. The rocks in the area have been subjected to extensive metamorphism, deformation, and igneous intrusions. Extensive fracture sets are present in the underlying bedrock. Surface expressions of these fractures are observed on topographic maps and aerial photos of the Plant Yates area (ACC 2019).

A thin layer of soil from 1 to 2 feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay and silt-rich soils that grade to sandier soils

with depth. A zone of variable thickness (approximately 5 to 20 feet) of transitionally weathered rock typically exists between the saprolite and competent bedrock. The lithology of the transition zone is highly variable and ranges from medium to coarse unconsolidated material to highly fractured and weathered rock fragments. Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) observed in saprolite may be related to historical river channel migration.

At Plant Yates, groundwater is typically encountered slightly above the saprolite/weathered rock interface. Groundwater flow in the saprolite zone is through interconnected pores and relict textures and fractures. As the rock becomes increasingly competent with depth, groundwater flow occurs mainly through joints and fractures (i.e., secondary porosity). Recharge to the water-bearing zones in fractured bedrock takes place by seepage through the overlying mantle of soil/saprolite or by direct entrance through openings in outcrops. The average depth of the water table at Plant Yates varies with topography, ranging from approximately 5 to 50 feet below ground surface. The water table occurs in the saprolite and in the transitionally weathered zone, at least several feet above the top of rock.

Field hydraulic conductivity tests (i.e., slug tests) have been performed in saprolite and weathered bedrock at multiple locations on the site. The average hydraulic conductivity for the unit is 1.3×10^{-3} centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2021). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

1.3 Groundwater Monitoring Well Network and CCR Unit Description

A groundwater monitoring system was previously installed within the uppermost aquifer at the site. The monitoring system was designed to monitor groundwater passing the unit boundary within the uppermost aquifer. Wells were placed to serve as upgradient and downgradient monitoring points based on groundwater flow direction. **Table 1** presents a summary of the monitoring well network depicted on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed from July to December 2022 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on **Figure 3**.

Table 2 summarizes groundwater sampling events conducted by Arcadis at the site during the second half of 2022. During the August sampling event, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b) as well as permit-required Appendix I and II constituents. Analytical laboratory reports and data validation reports are included in **Appendix A**. Field sampling logs are provided in **Appendix B**.

2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities were limited to visual inspection of well conditions before sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling. Details regarding the wells are included in **Table 1**, and locations are presented on **Figure 3**.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). During the sampling events, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed where necessary, as documented in **Appendix B**. There were no well maintenance issues during these periods that required corrective actions.

2.2 Assessment Monitoring

SSIs of Appendix III constituents were identified in the initial detection monitoring event (June 2019). The initial assessment monitoring event was conducted in August 2020. Pursuant to 40 CFR §§ 257.95(b) and 257.95(d)(1), groundwater samples collected in August 2022 from the CCR monitoring wells were analyzed for Appendix III and IV constituents, in addition to Appendix I and II metals required by the existing state permit. **Table 3** provides a summary of the constituents monitored during the events.

3 Sample Methodology and Analysis

Groundwater monitoring methods used at the site are described in the following sections.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before the sampling event, static water levels were recorded from the wells in the well network for the Gypsum Landfill. Groundwater elevations recorded during the August 2022 monitoring event are summarized in **Table 4**. A sitewide potentiometric surface map for August 2022 is provided on **Figure 4**. A potentiometric surface map for the Gypsum Landfill is provided on **Figure 5**. The general direction of groundwater flow across the site is towards the west and is consistent with historical patterns.

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

$$v = \frac{k \left(\frac{dh}{dl} \right)}{n_e}$$

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n_e = effective porosity

The groundwater flow velocity was calculated for the site based on hydraulic gradients, average hydraulic conductivity based on updated slug test data from April 2021, and an estimated effective porosity of 0.20 (based on a review of several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979). An alternate

effective porosity of 0.48 was also used to define the range of groundwater flow velocities (SCS 1992). Groundwater flow velocity calculations are presented in **Table 5**. The calculated flow velocity ranged from 0.2 foot per day (73 feet per year) to 0.48 foot per day (175 feet per year). These calculated groundwater velocities across the site are generally consistent with expected velocities in the site-specific geology.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Monitoring wells were purged and sampled using a dedicated bladder pump until water quality parameters stabilized. For wells sampled with non-dedicated bladder pumps, the pumps were lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well locations.

An AquaTroll 600™ (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, temperature, oxidation-reduction potential [ORP], and dissolved oxygen [DO]) during well purging to verify stabilization before sampling. Turbidity was measured using a portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- ± 0.1 standard units for pH;
- $\pm 5\%$ for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units (NTU). If turbidity remains between 5 and 10 NTU after three hours of purging and all other parameters have stabilized, the well could be sampled;
- $\pm 10\%$ or ± 0.2 mg/L (whichever is greater) for DO where DO > 0.5 mg/L. If DO < 0.5 mg/L no stabilization criteria apply.

Once stabilization was achieved, samples were collected directly into laboratory-supplied sample containers with preservative (where applicable). The samples were placed on ice in an insulated cooler following collection. The samples were submitted to Pace Analytical Services, LLC following chain-of-custody protocol. Stabilization logs for each well are included in **Appendix B**.

3.3 Laboratory Analysis

Groundwater samples collected during the assessment events were analyzed for Appendix III parameters as well as Appendix IV parameters in accordance with 40 CFR §§ 257.95(b) and 257.95(d)(1), and the 40 CFR Part 258 Appendix I and II metals required by the previous state permit. **Table 3** provides a summary of the constituents monitored during the event. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**. Analytical data collected from the assessment event is summarized in **Table 6a** for the sitewide upgradient wells, and **Table 6b** for the Gypsum Landfill detection monitoring wells.

Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project. Laboratory reports and chain-of-custody records for the monitoring event are presented in **Appendix A**.

3.4 Data Quality Assurance/Quality Control and Validation

During the sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The data validation report, prepared by Arcadis and included in **Appendix A**, summarizes the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling activities, quality control samples, and data associated with the chemical analytical results. The data are considered useable for meeting project objectives, and the results are considered valid. The complete results of the data quality evaluations are provided in **Appendix A**.

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

4 Statistical Analysis

Statistical analysis of Appendix I, II, III, and IV groundwater monitoring data was performed on samples collected from the Gypsum Landfill groundwater monitoring network pursuant to § 257.93(f) in August 2022. The statistical method used at the site was developed in accordance with 40 CFR § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, US EPA 530/R-09-007 (USEPA 2009).

4.1 Statistical Methods

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 document (USEPA 2009). Although assessment monitoring has been implemented, statistical evaluation of both Appendix III constituents and permit required Appendix I and II metals is performed.

4.1.1 Permit-Required Appendix I and II Metals

A minor permit modification was submitted to GAEPD following submittal of the 2019 First Supplemental Semiannual Groundwater Monitoring Report to allow use of intrawell methods for evaluation of state metals. The statistical methodology was revised to an intrawell method following the June 2019 monitoring event.

Statistical tests used to evaluate the groundwater monitoring data consist of intrawell prediction limits (PLs) combined with a 1-of-2 verification resample plan for all permit-required metals. In an intrawell comparison, analytical results from an individual well are compared to historical analytical results from that same well. If data from a sampling event initially exceed the PL, the resampling strategy may be used to verify the result. In 1-of-2 resampling, an independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If a resample exceeds the PL, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

4.1.2 Appendix III Monitoring Statistics

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters boron, calcium, chloride, sulfate, and total dissolved solids (TDS) combined with a 1-of-2 verification resample plan. Monitoring results for fluoride and pH were evaluated using intrawell prediction limits combined with a 1-of-2 verification resample plan. Interwell prediction limits pool upgradient well data to establish a background statistical limit. The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances of background. When the most recent sample exceeds its respective background statistical limit, an SSI is identified. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes containing 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, simple substitution of one half the reporting limit was used in the statistical analysis. The reporting limit used for non-detects is the practical quantification limit reported by the laboratory.
- When data contained between 15 and 50 percent non-detects, the Kaplan-Meier non-detect adjustment was 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.
- Non-parametric PLs were used on data containing greater than 50 percent non-detects.

4.1.3 Appendix IV Assessment Monitoring Statistics

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data for the wells identified in **Table 1** for Appendix IV parameters with a target of 95 percent confidence and 95 percent coverage.

The confidence and coverage levels for non-parametric tolerance limits depend on the number of background samples. The background limits were then used when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

As described in 40 CFR § 257.95(h)(1-3), the GWPS is:

- The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66;
- For the following constituents:
 - Cobalt 0.006 milligram per liter (mg/L)
 - Lead 0.015 mg/L
 - Lithium 0.040 mg/L
 - Molybdenum 0.100 mg/L.
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

GWPS have been established for statistical comparison of Appendix IV constituents at the Gypsum Landfill. **Table 7** summarizes the background limits established at each monitoring well for the August 2022 sampling event along with the GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS. A well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, a statistically significant level (SSL) exceedance was identified.

4.2 Statistical Analysis Results

4.2.1 Permit-Required Appendix I and II Metals

Analytes required by the existing state permit were analyzed during the semiannual monitoring events. Concentrations of target metals that exceeded their respective intrawell PLs calculated from the August 2022 sampling event are listed below.

- Selenium: GWC-1R

The concentration at GWC-1R (0.030 mg/L) for selenium slightly exceeded the intrawell prediction limit of 0.019 mg/L. While a PL exceedance was noted for selenium for GWC-1R, the concentration at this well is below its respective GWPS of 0.05 mg/L.

4.2.2 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix C**, Appendix III constituents have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A

table identifying the site monitoring wells in which analytical sampling results have revealed constituents with SSIs is included in **Appendix C**.

4.2.3 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the August 2022 Appendix IV data at the Gypsum Landfill was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified.

5 Monitoring Program Status

In accordance with GAEPD rule 391-3-4-.10(6)(a) and 40 CFR §257.94(e), an assessment monitoring program was initiated in November 2019. The site will remain in assessment monitoring due to SSIs for Appendix I and III parameters.

6 Conclusions and Future Actions

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's CCR Rule 40 CFR § 257.95 and GAEPD Rule 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for the site identified SSIs of Appendix I and III constituents.

The next assessment monitoring event is scheduled for February 2023. The monitoring event will include sampling and analysis of all Appendix I, II, III and IV constituents.

7 References

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2022 Semiannual Groundwater Monitoring and Corrective Action Report
PLANT YATES – GYPSUM LANDFILL

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Tables

Table 1
Monitoring Well Network Summary
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill



Well	Installation Date	Top of Casing Elevation (ft)	Bottom Depth (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Purpose
Upgradient Wells							
GWA-2	4/12/2007	805.62	52.02	753.60	41.82	763.80	Upgradient
YGWA-4I	5/21/2014	784.21	48.81	735.40	38.51	745.70	Upgradient
YGWA-5I	5/21/2014	784.54	58.94	725.60	48.64	735.90	Upgradient
YGWA-5D	5/21/2014	784.53	129.13	655.40	78.83	706.00	Upgradient
YGWA-17S	9/10/2015	783.05	39.85	743.20	29.55	753.20	Upgradient
YGWA-18S	9/8/2015	790.57	39.97	750.60	29.97	760.90	Upgradient
YGWA-18I	9/8/2015	790.57	79.97	710.60	69.67	720.90	Upgradient
YGWA-20S	9/29/2015	767.12	29.52	737.60	19.22	747.90	Upgradient
YGWA-21I	9/28/2015	783.70	79.90	703.80	69.60	714.10	Upgradient
YGWA-39	7/7/2016	818.19	68.59	749.60	58.09	760.10	Upgradient
YGWA-40	7/7/2016	815.73	48.23	767.50	37.73	778.00	Upgradient
YGWA-1I	5/20/2014	836.60	53.60	783.00	43.30	793.30	Upgradient
YGWA-1D	5/20/2014	837.25	128.85	708.40	78.05	759.20	Upgradient
YGWA-2I	5/20/2014	866.25	63.75	802.50	53.45	812.80	Upgradient
YGWA-3I	5/20/2014	796.55	59.05	737.50	48.85	747.70	Upgradient
YGWA-3D	5/20/2014	796.78	134.18	662.60	83.88	712.90	Upgradient
YGWA-14S	5/20/2014	748.76	34.96	713.80	24.66	724.10	Upgradient
YGWA-30I	9/23/2015	762.58	59.48	703.10	49.18	713.40	Upgradient
YGWA-47	7/11/2016	758.22	59.19	696.41	48.62	709.60	Upgradient
Downgradient Wells							
GWC-1R	5/12/2011	773.27	36.37	736.90	26.07	747.20	Detection
GWC-2R	10/19/2010	769.76	44.00	725.76	33.70	736.06	Detection
GWC-3R	5/11/2011	775.25	38.45	736.80	28.15	747.10	Detection
GWC-4R	10/20/2010	757.48	30.20	727.28	19.90	737.58	Detection
GWC-5R	5/11/2011	782.45	42.35	740.10	32.05	750.40	Detection
GWC-6R	8/11/2009	788.98	55.25	733.73	41.94	747.04	Detection

Notes:

ft bTOC - feet below top of casing

Elevation in U.S. Survey Feet (NAVD88) based on June 2020 survey

Table 2
Groundwater Sampling Event Summary
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill



Well	Hydraulic Location	Semiannual Assessment
		August 2022
GWA-2	Upgradient	X
GWC-1R	Downgradient	X
GWC-2R	Downgradient	X
GWC-3R	Downgradient	X
GWC-4R	Downgradient	X
GWC-5R	Downgradient	X
GWC-6R	Downgradient	X

Notes

1. All wells analyzed for Appendix I, II, III and IV.

Appendix I = Permit specified constituents for Detection Monitoring - 40 CFR Part 258 Appendix I

Appendix II = Permit specified constituents for Assessment Monitoring - 40 CFR Part 258 Appendix II

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

Table 3
Summary of Groundwater Monitoring Parameters
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill



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

Table 4
Summary of Groundwater Elevations
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill



Well ID	Date Measured	Top of Casing Elevation (ft) ¹	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
Downgradient Wells - August 2022				
GWC-1R	8/29/2022	773.27	22.98	750.29
GWC-2R	8/29/2022	769.76	28.53	741.23
GWC-3R	8/29/2022	775.25	28.05	747.20
GWC-4R	8/29/2022	757.48	16.25	741.23
GWC-5R	8/29/2022	782.45	29.02	753.43
GWC-6R	8/29/2022	788.98	34.68	754.30
Upgradient Wells - August 2022				
YGWA-4I	8/29/2022	784.21	24.06	760.15
YGWA-5I	8/29/2022	784.54	20.63	763.91
YGWA-5D	8/29/2022	784.53	21.87	762.66
YGWA-17S	8/29/2022	783.05	13.45	769.60
YGWA-18S	8/29/2022	790.57	21.58	768.99
YGWA-18I	8/29/2022	790.57	25.58	764.99
YGWA-20S	8/29/2022	767.12	11.64	755.48
YGWA-21I	8/29/2022	783.70	31.73	756.10
YGWA-39	8/29/2022	818.19	17.72	800.47
YGWA-40	8/29/2022	815.73	23.64	792.09
YGWA-1I	8/29/2022	836.60	37.21	799.39
YGWA-1D	8/29/2022	837.25	49.37	787.88
YGWA-2I	8/29/2022	866.25	44.49	821.76
YGWA-3I	8/29/2022	796.55	53.39	743.16
YGWA-3D	8/29/2022	796.78	30.43	766.35
YGWA-14S	8/29/2022	748.76	20.18	728.58
YGWA-30I	8/29/2022	762.58	43.83	718.75
YGWA-47	8/29/2022	758.22	28.16	730.06
GWA-2	8/29/2022	805.62	36.23	769.39

Notes

ft bTOC - feet below top of casing

¹ Elevation in U.S. Survey Feet (NAVD88) based on June 2020 survey.

Equation

$$V = \frac{K (dh/dl)}{n_e}$$

where: V = groundwater velocity
 K = hydraulic conductivity
 dh/dl = i = hydraulic gradient
 n_e = effective porosity

Values Used in Calculation

Value	Source
K: 1.03E-03 cm/sec 2.91 ft/day	See note 1
i ₁ = 0.033 unitless	Hydraulic gradient from: GWA-2 to GWC-4R (Aug. 2022)
n _e = 0.48 unitless	See note 1
n _e = 0.20 unitless	See note 2

Site-specific groundwater linear velocity using porosity value of 0.48

Aug. 2022

$$v = \frac{(2.91) (0.033)}{0.48}$$

v = 0.2 ft/day or 73 ft/year

Groundwater linear velocity using literature porosity value of 0.20

Aug. 2022

$$v = \frac{(2.91) (0.033)}{0.20}$$

v = 0.48 ft/day or 175 ft/year

Notes

1. Groundwater Monitoring Plan, Plant Yates, Inactive CCR Landfill - Gypsum Stack (ACC 2021)
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

Analyte	Units ¹	GWA-2	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	
		8/30/2022	8/30/2022	8/31/2022	8/30/2022	8/30/2022	8/30/2022	8/30/2022	
Appendix III (40 CFR 257)									
Appendix III (40 CFR 257)	pH	SU	5.39	5.07	5.23	4.85	5.52	4.86	5.82
	Boron	mg/l	< 0.0086	0.015 J	0.19	0.014 J	4.4	0.058	0.0092 J
	Calcium	mg/l	23.5	189	46.9	17.5	55.8	135	40.6
	Chloride	mg/l	6.3	5.6	14.5	3.1	146	1.8	7.5
	Fluoride	mg/l	0.086 J	< 0.050	< 0.050	0.14	0.050 J	0.11	0.064 J
	Sulfate	mg/l	101	994	280	76.0	155	939	174
	Total Dissolved Solids	mg/l	244	1600	510	150	628	1570	400
Appendix IV (40 CFR 257)	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00094 J	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0024 J	0.0035 J	< 0.0022	< 0.0022	< 0.0022	0.0035 J	< 0.0022
	Barium	mg/l	0.031	0.058	0.026	0.010	0.022	0.010	0.028
	Beryllium	mg/l	< 0.000054	0.00037 J	0.00023 J	0.00056	0.000072 J	0.0032	< 0.000054
	Cadmium	mg/l	< 0.00011	0.00026 J	0.00012 J	0.00016 J	0.00011 J	0.00098	< 0.00011
	Chromium	mg/l	< 0.0011	0.0015 J	< 0.0011	< 0.0011	< 0.0011	0.0019 J	0.0016 J
	Cobalt	mg/l	0.075	0.00087 J	0.0036 J	0.0021 J	0.0020 J	0.00077 J	< 0.00039
	Fluoride	mg/l	0.086 J	< 0.050	< 0.050	0.14	0.050 J	0.11	0.064 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0025 J	0.0019 J	0.0042 J	< 0.00073	< 0.00073	0.0014 J	0.0013 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Radium	pci/l	1.52	0.476 U	1.55	0.884 U	0.433 U	1.36	0.861 U
	Selenium	mg/l	< 0.0014	0.030	0.0042 J	0.0068	0.0038 J	0.019	< 0.0014
Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	
Appendix I & II Metals (State Permit) ²	Copper	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Nickel	mg/l	0.015	0.0027 J	< 0.00071	< 0.00071	0.0021 J	0.00097 J	< 0.00071
	Silver	mg/l	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044
	Vanadium	mg/l	0.0026 J	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
	Zinc	mg/l	0.011	< 0.0070	< 0.0070	< 0.0070	< 0.0070	0.022	< 0.0070

Notes:

- Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
 - Appendix I and II parameters included to meet EPD Rule 391-3-4-.14 requirements that is not included in the Appendix IV parameter list
- < Analyte was not detected above the laboratory method detection limit.

Laboratory Qualifiers:

J = Estimated concentration above the method detection limit and below the reporting limit.
 U = The substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified as estimated.

	Analyte	Units	GWA-2	YGWA-1D	YGWA-1I	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I
			8/30/2022	8/30/2022	8/31/2022	8/30/2022	8/31/2022	8/31/2022	8/31/2022
Appendix III	pH	SU	5.39	7.2	5.64	7.04	7.49	7.65	5.50
	Boron	mg/l	< 0.0086	< 0.0086	< 0.043 D3	< 0.0086	< 0.0086	< 0.0086	< 0.0086
	Calcium	mg/l	23.5	14.9	1.9	25.4	23.5	28.7	8.9
	Chloride	mg/l	6.3	1.3	1.5	1.2	1.3	1.3	4.4
	Fluoride	mg/l	0.086 J	0.093 J	0.065 J	0.12	0.13	0.42	0.061 J
	Sulfate	mg/l	101	10.2	4.8	20.1	13.9	6.9	8.0
	Total Dissolved Solids	mg/l	244	105	57.0	153	137	141	92.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0024 J	< 0.0022	< 0.0022	0.0027 J	< 0.0022	0.0028 J	< 0.0022
	Barium	mg/l	0.031	0.0066	0.0074	0.0030 J	0.0030 J	0.0048 J	0.013
	Beryllium	mg/l	< 0.000054	< 0.000054	< 0.00027	< 0.000054	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	0.0011 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.075	< 0.00039	0.00085 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0025 J	0.013 J	< 0.0036	0.0044 J	0.022 J	0.021 J	0.013 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	0.0094 J	0.0055 J	0.0068 J	0.0068 J	0.011	< 0.00074
	Combined Radium - 226/228	pCi/l	1.52	0.827	0.490 U	0.699 U	1.33	2.12	0.962
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

< Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

	Analyte	Units	YGWA-5D	YGWA-5I	YGWA-14S	YGWA-17S	YGWA-18I	YGWA-18S
			8/30/2022	8/30/2022	8/31/2022	8/30/2022	8/30/2022	8/30/2022
Appendix III	pH	SU	7.40	5.00	5.15	4.68	5.82	5.18
	Boron	mg/l	0.0098 J	< 0.0086	0.015 J	0.013 J	< 0.0086	0.014 J
	Calcium	mg/l	24.8	2.5	1.3	3.0	5.7	0.77 J
	Chloride	mg/l	3.5	4.4	4.6	12.0	7.9	7.0
	Fluoride	mg/l	0.085 J	< 0.050	0.053 J	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	5.7	2.4	5.8	4.7	0.78 J	1.3
	Total Dissolved Solids	mg/l	148	86.0	51.0	81.0	100	52.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0031 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.0079	0.017	0.0075	0.017	0.017	0.012
	Beryllium	mg/l	< 0.000054	< 0.000054	0.00020 J	0.00010 J	< 0.000054	0.000082 J
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0015 J
	Cobalt	mg/l	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0068 J	0.0035 J	< 0.00073	< 0.00073	0.0036 J	0.0014 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	0.00089 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	5.34	0.720 U	0.421 U	1.08	1.01	0.611 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

< Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

	Analyte	Units	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39	YGWA-40	YGWA-47
			8/31/2022	8/30/2022	8/31/2022	8/31/2022	8/31/2022	8/31/2022
Appendix III	pH	SU	5.38	6.58	5.87	5.30	4.53	5.32
	Boron	mg/l	< 0.043 D3	0.012 J	< 0.0086	0.14	0.062	0.0091 J
	Calcium	mg/l	2.4	7.3	1.3	16.3	6.2	9.6
	Chloride	mg/l	2.9	2.4	1.8	6.7	6.3	3.5
	Fluoride	mg/l	< 0.050	0.10	0.060 J	0.065 J	0.050 J	0.065 J
	Sulfate	mg/l	< 0.50	3.2	1.1	10.9	17.9	48.0
	Total Dissolved Solids	mg/l	62.0	122	33.0 D6	248	92.0	116
Appendix IV	Antimony	mg/l	< 0.00078	0.0046	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0022	0.0022 J	< 0.0022	0.0029 J	< 0.0022	< 0.0022
	Barium	mg/l	0.011	0.0085	0.0068	0.035	0.035	0.029
	Beryllium	mg/l	< 0.00027	< 0.000054	< 0.000054	< 0.000054	0.00025 J	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	0.00044 J	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	0.0066	0.0040 J	0.00085 J	< 0.00039	0.00096 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	< 0.00073	0.0079 J	0.0012 J	0.0065 J	< 0.00073	0.0037 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00064	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	0.0036 J	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.184 U	1.27	0.506 U	0.937	0.513 U	0.714 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

< Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

**Table 7 - Background Levels and Groundwater Protection Standards
2022 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill**



Constituent	Units	Background	GWPS
August 2022			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.0005	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035 ¹	0.035 ¹
Fluoride	mg/L	0.68	4
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.03	0.040
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.014	0.1
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92 ¹	6.92 ¹

Notes

GWPS - Groundwater Protection Standard per 40 CFR §257.95(h).

Site background - Tolerance limits calculated from pooled upgradient well data.

1. Background concentration is higher than the federally promulgated value (0.006 mg/L for Co). Background is higher than radium MCL (5 mg/L). Therefore background is the GWPS.

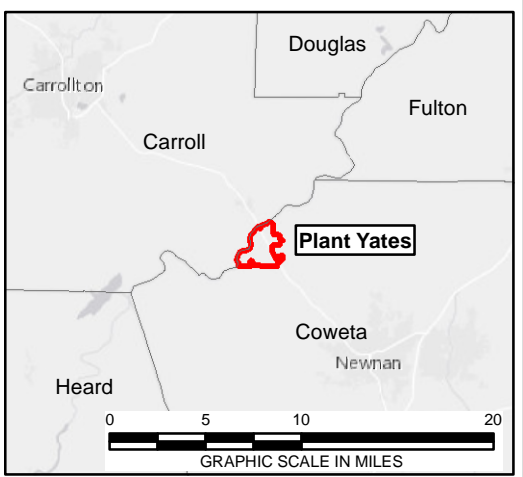
Acronyms and Abbreviations:

GWPS - Groundwater Protection Standard

mg/L - milligrams per liter

pCi/L - picocuries per liter

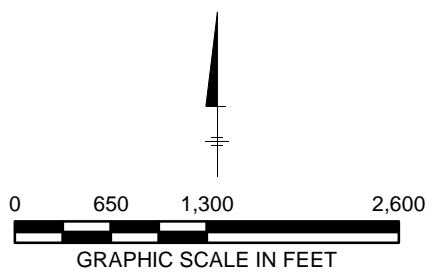
Figures



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

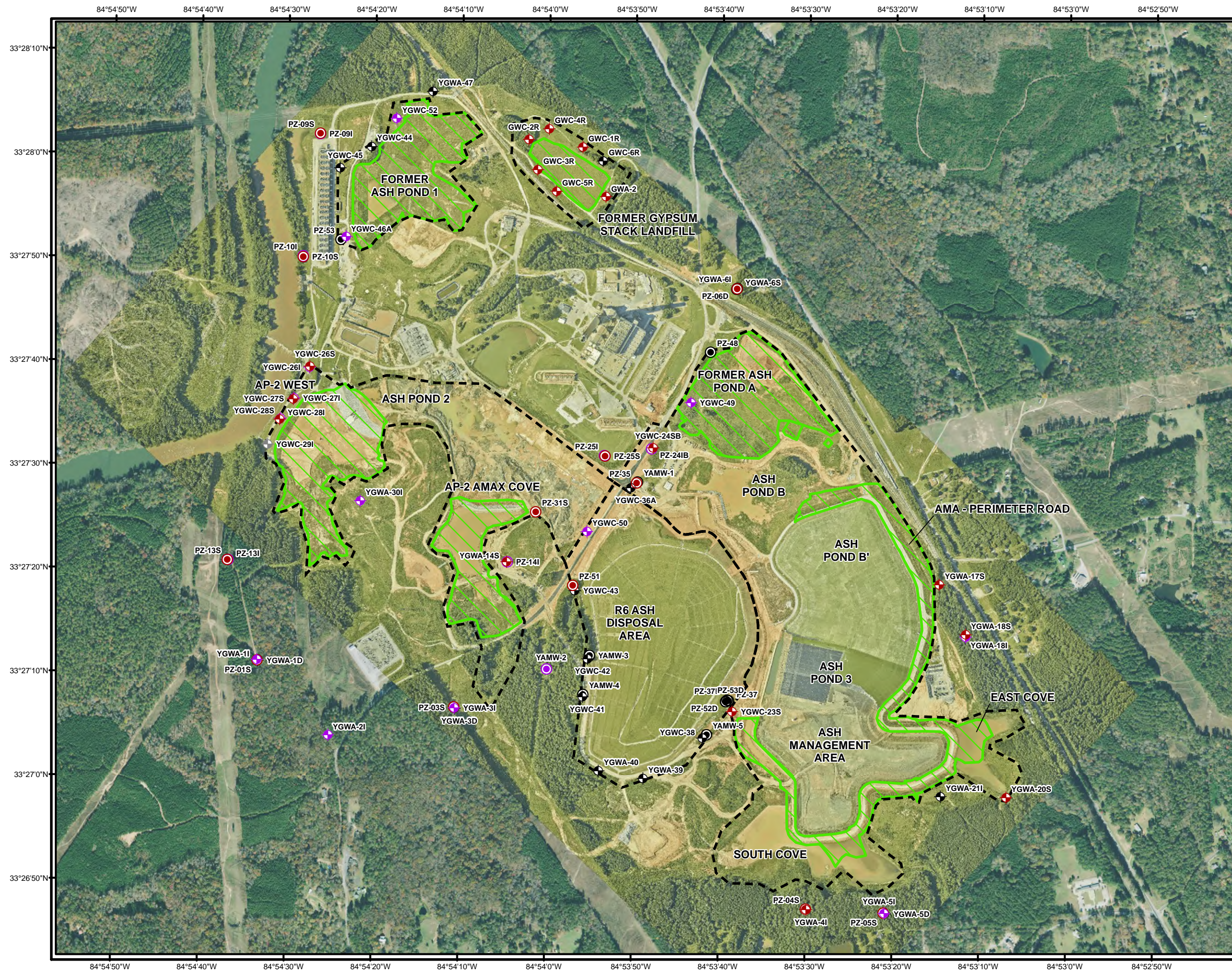


COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES GYPSUM LANDFILL
 NEWNAN, GA
 2022 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

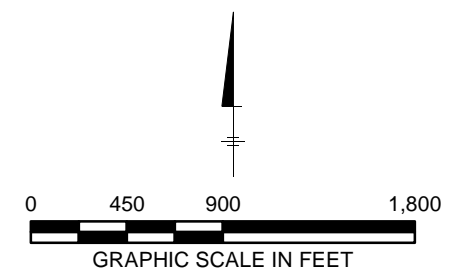
ARCADIS | FIGURE **1**



LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- ABANDONED DETECTION MONITORING WELL LOCATION
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 1/31/2023

NOTE:
 AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.






COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES GYPSUM LANDFILL
 NEWNAN, GA
 2022 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

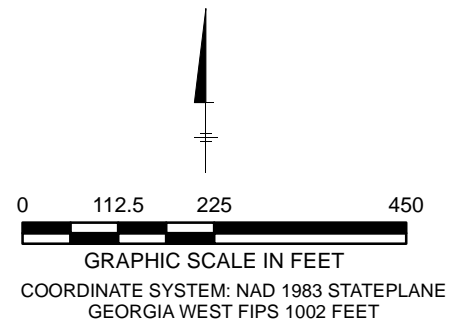
PLANT YATES CCR REMOVAL AREAS




LEGEND

-  SAPROLITE DETECTION MONITORING
-  BEDROCK DETECTION MONITORING
-  PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: AUGUST 30, 2022
 IMAGERY FLOWN AND PROCESSED BY SAM LLC;
 NATIONAL AGRICULTURE IMAGERY PROGRAM
 (NAIP) 2021 IMAGERY.

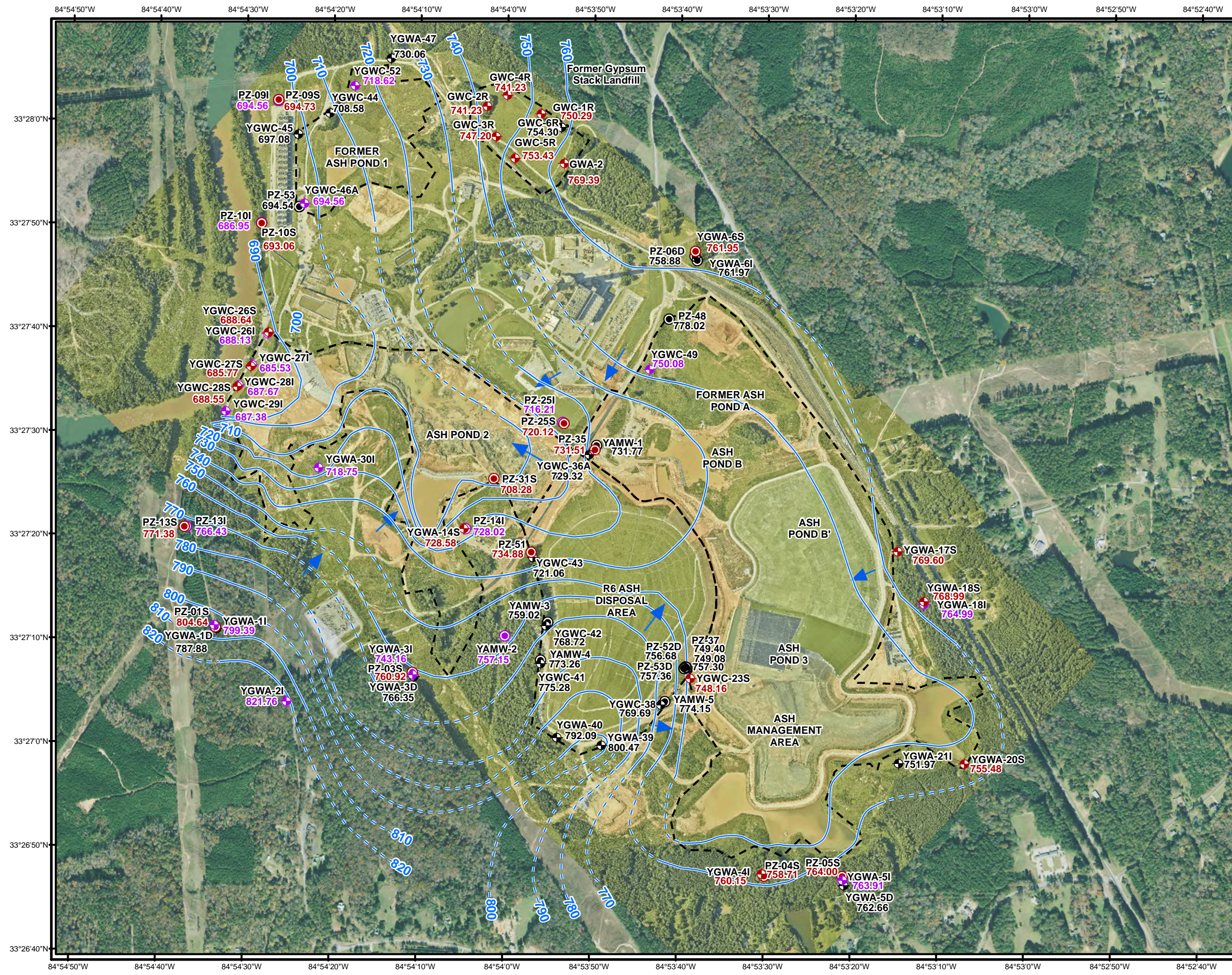


 **Georgia Power**
 PLANT YATES GYPSUM LANDFILL
 NEWNAN, GA
 2022 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

 **ARCADIS**

FIGURE
3

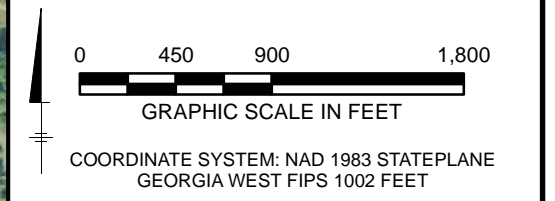


LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

757.11 GROUNDWATER ELEVATION (FEET)

- ### NOTES:
1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.
 2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWA-41, YGWA-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.
 3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
 4. AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.
 5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
 6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 29, 2022.



PLANT YATES GYPSUM STACK LANDFILL, NEWNAN, GA
 2022 G9A ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

**SITEWIDE
 GROUNDWATER ELEVATION MAP
 AUGUST 2022**

FIGURE



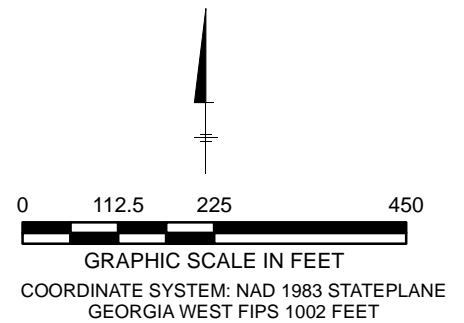
LEGEND

- SAPROLITE DETECTION MONITORING
- BEDROCK DETECTION MONITORING
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- 741.23** GROUNDWATER ELEVATION (FEET)

NOTES:

1. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



Georgia Power
PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2022 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

**GROUNDWATER ELEVATION MAP
AUGUST 2022**

ARCADIS

FIGURE
5

Appendix A

Laboratory Analytical and Data Validation Reports

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623290 and 92623294

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #47081R

Review Level: Tier II

Project: 30143622.3

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623290 and 92623294 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
GWC-6R	92623290001 92623294001	Water	8/30/2022		X	X	X
GWC-1R	92623290002 92623294002	Water	8/30/2022		X	X	X
GWC-4R	92623290003 92623294003	Water	8/30/2022		X	X	X
GLF-DUP-1	92623290004 92623294004	Water	8/30/2022	GWC-4R	X	X	X
GWC-5R	92623290005 92623294005	Water	8/30/2022		X	X	X
GWC-3R	92623290006 92623294006	Water	8/30/2022		X	X	X
GLF-EB-1	92623290007 92623294007	Water	8/30/2022		X	X	X
GLF-FB-1	92623290008 92623294008	Water	8/30/2022		X	X	X
GWC-2R	92623290009 92623294009	Water	8/31/2022		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Data Review Report

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis was performed using sample GWC-6R in association with SW-846 6010D and 7470A. The concentration of calcium in the unspiked sample was greater than four-times the spike concentration, hence, the

SW-846 6010D MS/MSD sample results were not evaluated. The SW-846 7470A MS/MSD analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample GWC-1R in association with SW-846 6020B analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWC-4R / GLF-DUP-1	Calcium	55.8	57.8	3.5%
	Boron	4.4	4.2	4.7%
	Antimony	0.00094 J	0.0030 U	AC
	Barium	0.022	0.021	
	Beryllium	0.000072 J	0.000062 J	
	Cadmium	0.00011 J	0.00050 U	
	Cobalt	0.0020 J	0.0020 J	
	Nickel	0.0021 J	0.0019 J	
	Selenium	0.0038 J	0.0040 J	
Mercury	0.00014 J	0.00020 U		

Note:

AC = Acceptable

The differences in the results between the parent sample GWC-4R and field duplicate sample GLF-DUP-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using sample GWC-2R in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using sample GWC-4R in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWC-4R / GLF-DUP-1	TDS	628	608	3.2%
	Chloride	146	134	8.6%
	Fluoride	0.050 J	0.070 J	AC
	Sulfate	155	139	10.9%

Note:

AC = Acceptable

The differences in the results between the parent sample GWC-4R and field duplicate sample GLF-DUP-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (± 2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:

* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 and Radium-228 were detected in the field blank GLF-FB-1 at activities greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-226 result in samples GWC-1R was qualified as “J” since the NAD were less than 1.96. The Radium-228 result in samples GWC-5R and GWC-2R were qualified as “J” since the NAD were less than 1.96. No qualifiers were assigned to the Radium-226 and Radium-228 results in the other field samples since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte’s concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(c) = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1), u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The laboratory duplicate analysis performed on sample location GLF-DUP-1 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWC-4R / GLF-DUP-1	Radium-226	0.127 ± 0.105	0.0761 ± 0.0881	AC
	Radium-228	0.306 ± 0.557	0.458 ± 0.517	
	Total Radium	0.433 ± 0.662	0.534 ± 0.605	

Note:

AC = Acceptable

The differences in the results between the parent sample GWC-4R and field duplicate sample GLF-DUP-1 were acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- GWC-5R, GWC-2R – Radium-226
- GWC-1R – Radium-228 and total Radium
- GWC-6R, GWC-4R, GLF-DUP-1, GWC-3R, GLF-EB-1 – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: November 9, 2022

PEER REVIEW: Dennis Capria

DATE: November 9, 2022

Chain of Custody / Data Qualifier Summary Table

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92623529	GWC-1R	SW846 9315	Radium-226	0.369 +/- 0.155	pCi/L	J	Blank contamination
	GWC-5R	SW846 9320	Radium-228	1.36 +/- 0.647	pCi/L	J	Blank contamination
	GWC-2R	SW846 9320	Radium-228	1.38 +/- 0.664	pCi/L	J	Blank contamination
92623294	No qualifiers assigned						

Abbreviations:

pCi/L = picoCuries per liter

Qualifiers:

J = estimated result

November 03, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

Revision 1: Issued on 11/3/22 to include Radium QC Sheets.

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis

Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Pace Analytical Services Pennsylvania

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

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623290001	GWC-6R	Water	08/30/22 11:10	08/31/22 11:03
92623290002	GWC-1R	Water	08/30/22 12:40	08/31/22 11:03
92623290003	GWC-4R	Water	08/30/22 15:40	08/31/22 11:03
92623290004	GLF-DUP-1	Water	08/30/22 15:40	08/31/22 11:03
92623290005	GWC-5R	Water	08/30/22 12:40	08/31/22 11:03
92623290006	GWC-3R	Water	08/30/22 15:35	08/31/22 11:03
92623290007	GLF-EB-1	Water	08/30/22 16:00	08/31/22 11:03
92623290008	GLF-FB-1	Water	08/30/22 15:50	08/31/22 11:03
92623290009	GWC-2R	Water	08/31/22 09:25	09/01/22 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623290001	GWC-6R	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290002	GWC-1R	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290003	GWC-4R	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290004	GLF-DUP-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290005	GWC-5R	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290006	GWC-3R	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290007	GLF-EB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290008	GLF-FB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290009	GWC-2R	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290001	GWC-6R					
EPA 9315	Radium-226	0.0705 ± 0.0916 (0.191) C:92% T:NA	pCi/L		09/23/22 09:01	
EPA 9320	Radium-228	0.790 ± 0.489 (0.940) C:76% T:88%	pCi/L		09/21/22 12:29	
Total Radium Calculation	Total Radium	0.861 ± 0.581 (1.13)	pCi/L		09/26/22 14:22	
92623290002	GWC-1R					
EPA 9315	Radium-226	0.369 ± 0.155 (0.140) C:94% T:NA	pCi/L		09/23/22 09:01	
EPA 9320	Radium-228	0.107 ± 0.493 (1.11) C:76% T:82%	pCi/L		09/21/22 12:29	
Total Radium Calculation	Total Radium	0.476 ± 0.648 (1.25)	pCi/L		09/26/22 14:22	
92623290003	GWC-4R					
EPA 9315	Radium-226	0.127 ± 0.105 (0.180) C:88% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.306 ± 0.557 (1.22) C:70% T:88%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	0.433 ± 0.662 (1.40)	pCi/L		09/26/22 14:22	
92623290004	GLF-DUP-1					
EPA 9315	Radium-226	0.0761 ± 0.0881 (0.174) C:93% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.458 ± 0.517 (1.08) C:72% T:89%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	0.534 ± 0.605 (1.25)	pCi/L		09/26/22 14:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290005	GWC-5R					
EPA 9315	Radium-226	-0.0206 ± 0.0469 (0.164) C:96% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	1.36 ± 0.647 (1.10) C:74% T:82%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	1.36 ± 0.694 (1.26)	pCi/L		09/26/22 14:22	
92623290006	GWC-3R					
EPA 9315	Radium-226	0.0792 ± 0.0902 (0.177) C:85% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.805 ± 0.626 (1.25) C:70% T:88%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	0.884 ± 0.716 (1.43)	pCi/L		09/26/22 14:22	
92623290007	GLF-EB-1					
EPA 9315	Radium-226	0.100 ± 0.0918 (0.160) C:89% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.640 ± 0.529 (1.06) C:73% T:95%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	0.740 ± 0.621 (1.22)	pCi/L		09/26/22 14:22	
92623290008	GLF-FB-1					
EPA 9315	Radium-226	0.272 ± 0.133 (0.147) C:98% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	1.14 ± 0.562 (0.977) C:77% T:90%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	1.41 ± 0.695 (1.12)	pCi/L		09/26/22 14:22	

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290009	GWC-2R					
EPA 9315	Radium-226	0.166 ± 0.113 (0.174)	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	C:92% T:NA 1.38 ± 0.664 (1.14)	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	C:67% T:89% 1.55 ± 0.777 (1.31)	pCi/L		09/26/22 14:22	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: GWC-6R Lab ID: 92623290001 Collected: 08/30/22 11:10 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0705 ± 0.0916 (0.191) C:92% T:NA	pCi/L	09/23/22 09:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.790 ± 0.489 (0.940) C:76% T:88%	pCi/L	09/21/22 12:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.861 ± 0.581 (1.13)	pCi/L	09/26/22 14:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Sample: GWC-1R **Lab ID: 92623290002** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.369 ± 0.155 (0.140) C:94% T:NA	pCi/L	09/23/22 09:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.107 ± 0.493 (1.11) C:76% T:82%	pCi/L	09/21/22 12:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.476 ± 0.648 (1.25)	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Sample: GWC-4R **Lab ID: 92623290003** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.127 ± 0.105 (0.180) C:88% T:NA	pCi/L	09/23/22 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.306 ± 0.557 (1.22) C:70% T:88%	pCi/L	09/21/22 15:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.433 ± 0.662 (1.40)	pCi/L	09/26/22 14:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: GLF-DUP-1 Lab ID: 92623290004 Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0761 ± 0.0881 (0.174) C:93% T:NA	pCi/L	09/23/22 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.458 ± 0.517 (1.08) C:72% T:89%	pCi/L	09/21/22 15:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.534 ± 0.605 (1.25)	pCi/L	09/26/22 14:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Sample: GWC-5R **Lab ID: 92623290005** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0206 ± 0.0469 (0.164) C:96% T:NA	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.36 ± 0.647 (1.10) C:74% T:82%	pCi/L	09/21/22 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.36 ± 0.694 (1.26)	pCi/L	09/26/22 14:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Sample: GWC-3R **Lab ID: 92623290006** Collected: 08/30/22 15:35 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0792 ± 0.0902 (0.177) C:85% T:NA	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.805 ± 0.626 (1.25) C:70% T:88%	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.884 ± 0.716 (1.43)	pCi/L	09/26/22 14:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Sample: GLF-EB-1 **Lab ID: 92623290007** Collected: 08/30/22 16:00 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.100 ± 0.0918 (0.160) C:89% T:NA	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.640 ± 0.529 (1.06) C:73% T:95%	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.740 ± 0.621 (1.22)	pCi/L	09/26/22 14:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Sample: GLF-FB-1 **Lab ID: 92623290008** Collected: 08/30/22 15:50 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.272 ± 0.133 (0.147) C:98% T:NA	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.14 ± 0.562 (0.977) C:77% T:90%	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.41 ± 0.695 (1.12)	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

Sample: GWC-2R **Lab ID: 92623290009** Collected: 08/31/22 09:25 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.166 ± 0.113 (0.174) C:92% T:NA	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.38 ± 0.664 (1.14) C:67% T:89%	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.55 ± 0.777 (1.31)	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

QC Batch:	531033	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

METHOD BLANK: 2575664 Matrix: Water

Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0196 ± 0.0818 (0.206) C:100% T:NA	pCi/L	09/23/22 08:42	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Gypsum LF RAD-Revised Report

Pace Project No.: 92623290

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623290001	GWC-6R	EPA 9315	531033		
92623290002	GWC-1R	EPA 9315	531033		
92623290003	GWC-4R	EPA 9315	531033		
92623290004	GLF-DUP-1	EPA 9315	531033		
92623290005	GWC-5R	EPA 9315	531033		
92623290006	GWC-3R	EPA 9315	531033		
92623290007	GLF-EB-1	EPA 9315	531033		
92623290008	GLF-FB-1	EPA 9315	531033		
92623290009	GWC-2R	EPA 9315	531033		
92623290001	GWC-6R	EPA 9320	531032		
92623290002	GWC-1R	EPA 9320	531032		
92623290003	GWC-4R	EPA 9320	531032		
92623290004	GLF-DUP-1	EPA 9320	531032		
92623290005	GWC-5R	EPA 9320	531032		
92623290006	GWC-3R	EPA 9320	531032		
92623290007	GLF-EB-1	EPA 9320	531032		
92623290008	GLF-FB-1	EPA 9320	531032		
92623290009	GWC-2R	EPA 9320	531032		
92623290001	GWC-6R	Total Radium Calculation	535443		
92623290002	GWC-1R	Total Radium Calculation	535443		
92623290003	GWC-4R	Total Radium Calculation	535443		
92623290004	GLF-DUP-1	Total Radium Calculation	535443		
92623290005	GWC-5R	Total Radium Calculation	535443		
92623290006	GWC-3R	Total Radium Calculation	535443		
92623290007	GLF-EB-1	Total Radium Calculation	535443		
92623290008	GLF-FB-1	Total Radium Calculation	535443		
92623290009	GWC-2R	Total Radium Calculation	535443		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: WO#: 92623290



Courier: FedEx UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/31/22 JM

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C Samples out of temp criteria Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92623290

Project

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, L.Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG9U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92623290

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/1/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet Blue None

Cooler Temp:

2.5

Correction Factor:

Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

Samples out of temp criteria Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

2.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: W			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92623290

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TQC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9-7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

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	
Required Client Information: Company: GA Power Address: Atlanta, GA		Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts		Invoice Information: Attention: Southern Co. Company Name: Address:	
Email To: lauko@southernco.com Phone: 470.620.6176 Requested Due Date:		Purchase Order #: Project Name: Plant Yates Gypsum Landfill Project Number:		Pace Order: Pace Project Manager: Nicole D'Oleo Pace Profile #: 10840	
State: Georgia Regulatory Agency:		State: Georgia Regulatory Agency:		State: Georgia Regulatory Agency:	

ITEM #	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		START	END													
1	GWC-6R			WG G						Jake Swanson	8/31/22	0800	Willie	8/31/22	800	
2	GWC-5R			WG G		8/30	1240			Willie	8/31/22	0800	Willie	8/31/22	800	
3	GWC-1R			WG G						Lyon Williams/Pace	8/31/22	0003	Lyon Williams/Pace	9/4/22	163	
4	GWC-3R			WG G		8/30	1535			Jake Swanson	8/31/22	1153	Jake Swanson	8/31/22	1153	
5	GWC-4R			WG G												
6	GWC-2R			WG G												
7	GLF-EB-1			WG G		8/30	1600									
8	GLF-FB-1			WG G		8/30	1550									
9	GLF-DUP-1			WG G												
10				WG G												
11				WG G												
12				WG G												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson	8/31/22	0800	Willie	8/31/22	800	
App III Metals: Boron 6020B, Ca 6010D, App III 6020B: Zn, Ag, Ni, V	Willie	8/31/22	0800	Willie	8/31/22	800	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Lyon Williams/Pace	8/31/22	0003	Lyon Williams/Pace	9/4/22	163	

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Jake Swanson SIGNATURE of SAMPLER:	DATE Signed: 8/30/22
--	----------------------

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: GA Power Address: Atlanta, GA Email To: laucoaker@southernco.com Phone: 470.620.6176 Requested Due Date:	Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: Plant Yates Gypsum Landfill Project Name: Plant Yates Gypsum Landfill Project Number: 10840
Section C Invoice Information: Attention: Southern Co. Company Name: Address: PACE Quote: PACE Project Manager: Nicole D'Ono PACE Profile #: 10840	Regulatory Agency: State / Location: Georgia

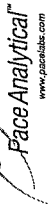
Page: 1 Of 1

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	DATE		TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
			START	END			DATE	TIME					
1	GWC-6R	DW			Pl	WG							
2	GWC-5R	WT			G	WG							
3	GWC-1R	WW			G	WG							
4	GWC-3R	P			G	WG							
5	GWC-4R	SL			G	WG							
6	GWC-2R	OL			G	WG							
7	GLF-EB-1	WP			G	WG							
8	GLF-FB-1	AR			G	WG							
9	GLF-DUP-1	OT			G	WG							
10		TS											
11													
12													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> / Arcadis	9/1/22	0830	<i>[Signature]</i> / Arc	9/1/22	0830	
App III Metals: Boron 6020B, Ca 6019D, App III 6020B: Zn, Ag, Ni, V	<i>[Signature]</i> / Arc	9/1/20	1055	<i>[Signature]</i> / Pace	9/1/20	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	<i>[Signature]</i> / Pace	9/1/22		<i>[Signature]</i> / Pace	9/1/22		

Received on: _____ Temp in C: _____ Samples Intact (Y/N): _____ Sealed (Y/N): _____ Custody (Y/N): _____	DATE SIGNED: _____ SIGNATURE OF SAMPLER: <i>[Signature]</i> PRINT NAME OF SAMPLER: <i>[Name]</i> SIGNATURE OF SAMPLER: <i>[Signature]</i> DATE SIGNED: _____
--	--

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 9/12/2022
Worklist: 68747
Matrix: WT

Method Blank Assessment	
MB Sample ID	2575663
MB concentration:	0.452
M/B 2 Sigma CSU:	0.381
MB MDC:	0.770
MB Numerical Performance Indicator:	2.33
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
		LCS68747	9/21/2022
Count Date:	9/21/2022	LCS68747	9/21/2022
Spike I.D.:	22-016		22-016
Decay Corrected Spike Concentration (pCi/mL):	34.253		34.253
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.830		0.818
Target Conc. (pCi/L, g, F):	4.128		4.189
Uncertainty (Calculated):	0.202		0.205
Result (pCi/L, g, F):	4.881		4.807
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.070		1.062
Numerical Performance Indicator:	1.36		1.12
Percent Recovery:	118.24%		114.75%
Status vs Numerical Indicator:	N/A		N/A
Upper % Recovery Limits:	135%		135%
Lower % Recovery Limits:	60%		60%

Duplicate Sample Assessment	
Sample I.D.:	LCS68747
Duplicate Sample I.D.:	LCS68747
Sample Result (pCi/L, g, F):	4.881
Sample Duplicate Result (pCi/L, g, F):	1.070
Sample Result 2 Sigma CSU (pCi/L, g, F):	4.807
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.062
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.096
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.99%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Amal

Analyst/22

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in IMS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: RMS
 Date: 9/14/2022
 Worklist: 68748
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2575664
MB Concentration:	0.020
M/B Counting Uncertainty:	0.082
MB MDC:	0.206
MB Numerical Performance Indicator:	0.47
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	
		LCS68748	YCS68748
Count Date:	9/22/2022	9/22/2022	9/22/2022
Spike I.D.:	19-033	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023	24.023
Volume Used (mL):	0.10	0.10	0.10
Aliquot Volume (L, g, F):	0.507	0.504	0.504
Target Conc. (pCi/L, g, F):	4.735	4.765	4.765
Uncertainty (Calculated):	0.057	0.057	0.057
Result (pCi/L, g, F):	5.026	5.252	5.252
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.529	0.529	0.529
Numerical Performance Indicator:	1.07	1.80	1.80
Percent Recovery:	106.13%	110.23%	110.23%
Status vs Numerical Indicator:	N/A	N/A	N/A
Status vs Recovery:	Pass	Pass	Pass
Upper % Recovery Limits:	125%	125%	125%
Lower % Recovery Limits:	75%	75%	75%

Duplicate Sample Assessment		Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	LCS68748	Sample I.D.:	92623290004
Duplicate Sample I.D.:	LCS68748	Sample MS I.D.:	92623290004DUP
Sample Result (pCi/L, g, F):	5.026	Sample Matrix Spike Result:	0.076
Sample Result Counting Uncertainty (pCi/L, g, F):	0.529	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.087
Sample Duplicate Result (pCi/L, g, F):	5.252	Sample Matrix Spike Duplicate Result:	-0.012
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.529	Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	0.084
Are sample and/or duplicate results below RL?	NO	Duplicate Numerical Performance Indicator:	1.422
Duplicate Numerical Performance Indicator:	-0.594	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	273.72%
Duplicate Status vs Numerical Indicator:	N/A	MS/MSD Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass	MS/MSD Duplicate Status vs RPD:	25%
% RPD Limit:	25%	% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision. N/A

One spike

N/A
 VAM 9/26/22

VAM 9/26/22

September 20, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. 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,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power

Becky Steever, Arcadis
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates Gypsum Landfill

Pace Project No.: 92623294

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623294001	GWC-6R	Water	08/30/22 11:10	08/31/22 11:03
92623294002	GWC-1R	Water	08/30/22 12:40	08/31/22 11:03
92623294003	GWC-4R	Water	08/30/22 15:40	08/31/22 11:03
92623294004	GLF-DUP-1	Water	08/30/22 15:40	08/31/22 11:03
92623294005	GWC-5R	Water	08/30/22 12:40	08/31/22 11:03
92623294006	GWC-3R	Water	08/30/22 15:35	08/31/22 11:03
92623294007	GLF-EB-1	Water	08/30/22 16:00	08/31/22 11:03
92623294008	GLF-FB-1	Water	08/30/22 15:50	08/31/22 11:03
92623294009	GWC-2R	Water	08/31/22 09:25	09/01/22 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Landfill

Pace Project No.: 92623294

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623294001	GWC-6R	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294002	GWC-1R	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294003	GWC-4R	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294004	GLF-DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294005	GWC-5R	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294006	GWC-3R	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294007	GLF-EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294008	GLF-FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Landfill

Pace Project No.: 92623294

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294009	GWC-2R	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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: Plant Yates Gypsum Landfill

Pace Project No.: 92623294

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623294001	GWC-6R					
	Performed by	Customer			08/31/22 16:35	
	pH	5.82	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	40.6	mg/L	1.0	09/15/22 20:22	M1
EPA 6020B	Barium	0.028	mg/L	0.0050	09/17/22 19:28	
EPA 6020B	Boron	0.0092J	mg/L	0.040	09/17/22 19:28	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	09/17/22 19:28	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	09/17/22 19:28	
SM 2540C-2015	Total Dissolved Solids	400	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	09/08/22 04:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	09/08/22 04:40	
EPA 300.0 Rev 2.1 1993	Sulfate	174	mg/L	4.0	09/08/22 07:50	
92623294002	GWC-1R					
	Performed by	Customer			08/31/22 16:35	
	pH	5.07	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	189	mg/L	1.0	09/15/22 20:51	
EPA 6020B	Arsenic	0.0035J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Barium	0.058	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Beryllium	0.00037J	mg/L	0.00050	09/17/22 19:33	
EPA 6020B	Boron	0.015J	mg/L	0.040	09/17/22 19:33	
EPA 6020B	Cadmium	0.00026J	mg/L	0.00050	09/17/22 19:33	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Cobalt	0.00087J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	09/17/22 19:33	
EPA 6020B	Nickel	0.0027J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Selenium	0.030	mg/L	0.0050	09/17/22 19:33	
SM 2540C-2015	Total Dissolved Solids	1600	mg/L	125	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	09/08/22 04:54	
EPA 300.0 Rev 2.1 1993	Sulfate	994	mg/L	19.0	09/08/22 08:04	
92623294003	GWC-4R					
	Performed by	Customer			08/31/22 16:35	
	pH	5.52	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	55.8	mg/L	1.0	09/15/22 20:56	
EPA 6020B	Antimony	0.00094J	mg/L	0.0030	09/17/22 19:57	
EPA 6020B	Barium	0.022	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Beryllium	0.000072J	mg/L	0.00050	09/17/22 19:57	
EPA 6020B	Boron	4.4	mg/L	0.040	09/17/22 19:57	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	09/17/22 19:57	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Nickel	0.0021J	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Selenium	0.0038J	mg/L	0.0050	09/17/22 19:57	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	09/16/22 12:40	
SM 2540C-2015	Total Dissolved Solids	628	mg/L	50.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	146	mg/L	3.0	09/08/22 08:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	09/08/22 05:08	
EPA 300.0 Rev 2.1 1993	Sulfate	155	mg/L	3.0	09/08/22 08:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623294004	GLF-DUP-1					
	Performed by	Customer			08/31/22 16:36	
	pH	5.52	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	57.8	mg/L	1.0	09/15/22 21:00	
EPA 6020B	Barium	0.021	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Beryllium	0.000062J	mg/L	0.00050	09/17/22 20:03	
EPA 6020B	Boron	4.2	mg/L	0.040	09/17/22 20:03	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Nickel	0.0019J	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Selenium	0.0040J	mg/L	0.0050	09/17/22 20:03	
SM 2540C-2015	Total Dissolved Solids	608	mg/L	50.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	134	mg/L	3.0	09/08/22 19:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	09/08/22 09:51	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	09/08/22 19:34	
92623294005	GWC-5R					
	Performed by	Customer			08/31/22 16:36	
	pH	4.86	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	135	mg/L	1.0	09/15/22 21:05	
EPA 6020B	Arsenic	0.0035J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Barium	0.010	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Beryllium	0.0032	mg/L	0.00050	09/17/22 20:09	
EPA 6020B	Boron	0.058	mg/L	0.040	09/17/22 20:09	
EPA 6020B	Cadmium	0.00098	mg/L	0.00050	09/17/22 20:09	
EPA 6020B	Chromium	0.0019J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Cobalt	0.00077J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/17/22 20:09	
EPA 6020B	Nickel	0.00097J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Selenium	0.019	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Zinc	0.022	mg/L	0.010	09/17/22 20:09	
SM 2540C-2015	Total Dissolved Solids	1570	mg/L	125	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/22 10:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/08/22 10:06	
EPA 300.0 Rev 2.1 1993	Sulfate	939	mg/L	20.0	09/08/22 19:49	
92623294006	GWC-3R					
	Performed by	Customer			08/31/22 16:36	
	pH	4.85	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	17.5	mg/L	1.0	09/15/22 21:10	
EPA 6020B	Barium	0.010	mg/L	0.0050	09/17/22 20:27	
EPA 6020B	Beryllium	0.00056	mg/L	0.00050	09/17/22 20:27	
EPA 6020B	Boron	0.014J	mg/L	0.040	09/17/22 20:27	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	09/17/22 20:27	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	09/17/22 20:27	
EPA 6020B	Selenium	0.0068	mg/L	0.0050	09/17/22 20:27	
SM 2540C-2015	Total Dissolved Solids	150	mg/L	25.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	09/08/22 10:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	09/08/22 10:21	
EPA 300.0 Rev 2.1 1993	Sulfate	76.0	mg/L	1.0	09/08/22 10:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum Landfill

Pace Project No.: 92623294

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623294009	GWC-2R					
	Performed by	Customer			09/02/22 10:42	
	pH	5.23	Std. Units		09/02/22 10:42	
EPA 6010D	Calcium	46.9	mg/L	1.0	09/15/22 18:28	
EPA 6020B	Barium	0.026	mg/L	0.0050	09/17/22 21:15	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	09/17/22 21:15	
EPA 6020B	Boron	0.19	mg/L	0.040	09/17/22 21:15	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	09/17/22 21:15	
EPA 6020B	Cobalt	0.0036J	mg/L	0.0050	09/17/22 21:15	
EPA 6020B	Lithium	0.0042J	mg/L	0.030	09/17/22 21:15	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	09/17/22 21:15	
SM 2540C-2015	Total Dissolved Solids	510	mg/L	25.0	09/05/22 13:05	
EPA 300.0 Rev 2.1 1993	Chloride	14.5	mg/L	1.0	09/09/22 02:09	
EPA 300.0 Rev 2.1 1993	Sulfate	280	mg/L	6.0	09/09/22 08:15	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-6R		Lab ID: 92623294001		Collected: 08/30/22 11:10		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:35		
pH	5.82	Std. Units			1		08/31/22 16:35		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	40.6	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:22	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 19:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:28	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:28	7440-41-7	
Boron	0.0092J	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:28	7440-43-9	
Chromium	0.0016J	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:28	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:28	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:28	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:28	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:28	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:28	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:28	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:28	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:28	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:21	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	400	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.5	mg/L	1.0	0.60	1		09/08/22 04:40	16887-00-6	
Fluoride	0.064J	mg/L	0.10	0.050	1		09/08/22 04:40	16984-48-8	
Sulfate	174	mg/L	4.0	2.0	4		09/08/22 07:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-1R		Lab ID: 92623294002		Collected: 08/30/22 12:40		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:35		
pH	5.07	Std. Units			1		08/31/22 16:35		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	189	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:51	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 19:33	7440-36-0	
Arsenic	0.0035J	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:33	7440-38-2	
Barium	0.058	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:33	7440-39-3	
Beryllium	0.00037J	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:33	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:33	7440-42-8	
Cadmium	0.00026J	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:33	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:33	7440-47-3	
Cobalt	0.00087J	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:33	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:33	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:33	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:33	7439-98-7	
Nickel	0.0027J	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:33	7440-02-0	
Selenium	0.030	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:33	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:33	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1600	mg/L	125	50.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.6	mg/L	1.0	0.60	1		09/08/22 04:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 04:54	16984-48-8	
Sulfate	994	mg/L	19.0	9.5	19		09/08/22 08:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-4R		Lab ID: 92623294003		Collected: 08/30/22 15:40		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:35		
pH	5.52	Std. Units			1		08/31/22 16:35		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	55.8	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00094J	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:57	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:57	7440-39-3	
Beryllium	0.000072J	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:57	7440-41-7	
Boron	4.4	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:57	7440-42-8	
Cadmium	0.00011J	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:57	7440-47-3	
Cobalt	0.0020J	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:57	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:57	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:57	7439-98-7	
Nickel	0.0021J	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:57	7440-02-0	
Selenium	0.0038J	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:57	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:57	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:57	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:57	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	628	mg/L	50.0	20.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	146	mg/L	3.0	1.8	3		09/08/22 08:18	16887-00-6	
Fluoride	0.050J	mg/L	0.10	0.050	1		09/08/22 05:08	16984-48-8	
Sulfate	155	mg/L	3.0	1.5	3		09/08/22 08:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-DUP-1		Lab ID: 92623294004		Collected: 08/30/22 15:40		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:36		
pH	5.52	Std. Units			1		08/31/22 16:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	57.8	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:03	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:03	7440-39-3	
Beryllium	0.00062J	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:03	7440-41-7	
Boron	4.2	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:03	7440-47-3	
Cobalt	0.0020J	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:03	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:03	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:03	7439-98-7	
Nickel	0.0019J	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:03	7440-02-0	
Selenium	0.0040J	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:03	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:03	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:03	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	608	mg/L	50.0	20.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	134	mg/L	3.0	1.8	3		09/08/22 19:34	16887-00-6	
Fluoride	0.070J	mg/L	0.10	0.050	1		09/08/22 09:51	16984-48-8	
Sulfate	139	mg/L	3.0	1.5	3		09/08/22 19:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-5R		Lab ID: 92623294005		Collected: 08/30/22 12:40		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:36		
pH	4.86	Std. Units			1		08/31/22 16:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	135	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:09	7440-36-0	
Arsenic	0.0035J	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:09	7440-38-2	
Barium	0.010	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:09	7440-39-3	
Beryllium	0.0032	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:09	7440-41-7	
Boron	0.058	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:09	7440-42-8	
Cadmium	0.00098	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:09	7440-43-9	
Chromium	0.0019J	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:09	7440-47-3	
Cobalt	0.00077J	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:09	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:09	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:09	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:09	7439-98-7	
Nickel	0.00097J	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:09	7440-02-0	
Selenium	0.019	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:09	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:09	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:09	7440-62-2	
Zinc	0.022	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:09	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1570	mg/L	125	50.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		09/08/22 10:06	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		09/08/22 10:06	16984-48-8	
Sulfate	939	mg/L	20.0	10.0	20		09/08/22 19:49	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-3R		Lab ID: 92623294006		Collected: 08/30/22 15:35		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:36		
pH	4.85	Std. Units			1		08/31/22 16:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	17.5	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:10	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:27	7440-38-2	
Barium	0.010	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:27	7440-39-3	
Beryllium	0.00056	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:27	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:27	7440-42-8	
Cadmium	0.00016J	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:27	7440-47-3	
Cobalt	0.0021J	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:27	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:27	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:27	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:27	7440-02-0	
Selenium	0.0068	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:27	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:27	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:27	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	150	mg/L	25.0	10.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.1	mg/L	1.0	0.60	1		09/08/22 10:21	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		09/08/22 10:21	16984-48-8	
Sulfate	76.0	mg/L	1.0	0.50	1		09/08/22 10:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-EB-1		Lab ID: 92623294007		Collected: 08/30/22 16:00		Received: 08/31/22 11:03		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:15	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:33	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:33	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:33	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:33	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:33	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:33	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:33	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:33	7440-48-4		
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:33	7440-50-8		
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:33	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:33	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:33	7439-98-7		
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:33	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:33	7782-49-2		
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:33	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:33	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:33	7440-62-2		
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:33	7440-66-6		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:50	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/02/22 11:13			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/08/22 10:37	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 10:37	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 10:37	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-FB-1		Lab ID: 92623294008		Collected: 08/30/22 15:50		Received: 08/31/22 11:03		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:29	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:39	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:39	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:39	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:39	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:39	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:39	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:39	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:39	7440-48-4		
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:39	7440-50-8		
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:39	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:39	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:39	7439-98-7		
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:39	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:39	7782-49-2		
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:39	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:39	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:39	7440-62-2		
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:39	7440-66-6		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:58	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/02/22 11:17			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/08/22 11:57	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 11:57	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 11:57	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-2R		Lab ID: 92623294009		Collected: 08/31/22 09:25		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:42		
pH	5.23	Std. Units			1		09/02/22 10:42		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	46.9	mg/L	1.0	0.12	1	09/15/22 14:54	09/15/22 18:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 21:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 21:15	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 21:15	7440-39-3	
Beryllium	0.00023J	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 21:15	7440-41-7	
Boron	0.19	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 21:15	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 21:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 21:15	7440-47-3	
Cobalt	0.0036J	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 21:15	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 21:15	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 21:15	7439-92-1	
Lithium	0.0042J	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 21:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 21:15	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 21:15	7440-02-0	
Selenium	0.0042J	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 21:15	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 21:15	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 21:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 21:15	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 21:15	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 13:19	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	510	mg/L	25.0	10.0	1		09/05/22 13:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	14.5	mg/L	1.0	0.60	1		09/09/22 02:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 02:09	16984-48-8	
Sulfate	280	mg/L	6.0	3.0	6		09/09/22 08:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch:	723576	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3770129 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 20:13	

LABORATORY CONTROL SAMPLE: 3770130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770131 3770132

Parameter	Units	92623294001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	40.6	1	1	40.6	40.8	1	25	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723581 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294009

METHOD BLANK: 3770156 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 17:50	

LABORATORY CONTROL SAMPLE: 3770157

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770158 3770159

Parameter	Units	3770158		3770159		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623538003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	105	1	1	104	104	-111	-62	75-125	0	20 M1

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723784 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

METHOD BLANK: 3771287 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/17/22 19:16	
Arsenic	mg/L	ND	0.0050	0.0022	09/17/22 19:16	
Barium	mg/L	ND	0.0050	0.00067	09/17/22 19:16	
Beryllium	mg/L	ND	0.00050	0.000054	09/17/22 19:16	
Boron	mg/L	ND	0.040	0.0086	09/17/22 19:16	
Cadmium	mg/L	ND	0.00050	0.00011	09/17/22 19:16	
Chromium	mg/L	ND	0.0050	0.0011	09/17/22 19:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/17/22 19:16	
Copper	mg/L	ND	0.0050	0.0010	09/17/22 19:16	
Lead	mg/L	ND	0.0010	0.00089	09/17/22 19:16	
Lithium	mg/L	ND	0.030	0.00073	09/17/22 19:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/17/22 19:16	
Nickel	mg/L	ND	0.0050	0.00071	09/17/22 19:16	
Selenium	mg/L	ND	0.0050	0.0014	09/17/22 19:16	
Silver	mg/L	ND	0.0050	0.00044	09/17/22 19:16	
Thallium	mg/L	ND	0.0010	0.00018	09/17/22 19:16	
Vanadium	mg/L	ND	0.010	0.0019	09/17/22 19:16	
Zinc	mg/L	ND	0.010	0.0070	09/17/22 19:16	

LABORATORY CONTROL SAMPLE: 3771288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Copper	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Nickel	mg/L	0.1	0.091	91	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Silver	mg/L	0.1	0.097	97	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

LABORATORY CONTROL SAMPLE: 3771288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.093	93	80-120	
Zinc	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771521 3771522

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623294002	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	2	20		
Arsenic	mg/L	0.0035J	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Barium	mg/L	0.058	0.1	0.1	0.16	0.16	98	100	75-125	1	20		
Beryllium	mg/L	0.00037J	0.1	0.1	0.093	0.090	93	90	75-125	3	20		
Boron	mg/L	0.015J	1	1	0.92	0.91	91	89	75-125	2	20		
Cadmium	mg/L	0.00026J	0.1	0.1	0.10	0.099	100	98	75-125	1	20		
Chromium	mg/L	0.0015J	0.1	0.1	0.097	0.093	95	92	75-125	4	20		
Cobalt	mg/L	0.00087J	0.1	0.1	0.096	0.092	96	91	75-125	5	20		
Copper	mg/L	ND	0.1	0.1	0.093	0.090	92	90	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20		
Lithium	mg/L	0.0019J	0.1	0.1	0.099	0.096	97	94	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20		
Nickel	mg/L	0.0027J	0.1	0.1	0.096	0.093	94	91	75-125	3	20		
Selenium	mg/L	0.030	0.1	0.1	0.13	0.13	99	102	75-125	2	20		
Silver	mg/L	ND	0.1	0.1	0.089	0.089	89	89	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	4	20		
Vanadium	mg/L	ND	0.1	0.1	0.10	0.098	103	98	75-125	4	20		
Zinc	mg/L	ND	0.1	0.1	0.11	0.10	104	101	75-125	3	20		

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723555 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

METHOD BLANK: 3769985 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/16/22 12:15	

LABORATORY CONTROL SAMPLE: 3769986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769987 3769988

Parameter	Units	92623294001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0022	90	88	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch:	721194	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3757806 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/02/22 11:11	

LABORATORY CONTROL SAMPLE: 3757807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	80-120	

SAMPLE DUPLICATE: 3757808

Parameter	Units	92623226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	78.0	4	25	

SAMPLE DUPLICATE: 3757809

Parameter	Units	92623294003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	628	638	2	25	

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721455	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623294009

METHOD BLANK: 3759030 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721661 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: 92623294001, 92623294002, 92623294003

METHOD BLANK: 3760039 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 22:22	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 22:22	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 22:22	

LABORATORY CONTROL SAMPLE: 3760040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760041 3760042

Parameter	Units	92622406016		3760041		3760042		% 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	4.1	50	50	57.1	56.7	106	105	90-110	1	10		
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.4	93	93	90-110	0	10		
Sulfate	mg/L	47.3	50	50	98.1	99.8	101	105	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760043 3760044

Parameter	Units	92623226003		3760043		3760044		% 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	7.9	50	50	61.5	61.2	107	107	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10		
Sulfate	mg/L	0.78J	50	50	54.0	53.6	106	106	90-110	1	10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721852 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: 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3761017 Matrix: Water
Associated Lab Samples: 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 07:17	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 07:17	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 07:17	

LABORATORY CONTROL SAMPLE: 3761018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.9	96	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761019 3761020

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623573001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	ND	50	50	50.3	51.2	99	101	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	108	107	90-110	1	10		
Sulfate	mg/L	ND	50	50	51.1	51.9	101	103	90-110	1	10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 722008 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: 92623294009

METHOD BLANK: 3761879 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 21:58	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 21:58	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 21:58	

LABORATORY CONTROL SAMPLE: 3761880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761881 3761882

Parameter	Units	92623532006		3761881		3761882		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	5.5	50	50	57.4	57.9	104	105	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10		
Sulfate	mg/L	67.9	50	50	117	117	99	99	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761883 3761884

Parameter	Units	92623294009		3761883		3761884		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	14.5	50	50	66.1	66.6	103	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	95	90-110	0	10		
Sulfate	mg/L	280	50	50	326	329	93	100	90-110	1	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Gypsum Landfill

Pace Project No.: 92623294

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623294001	GWC-6R				
92623294002	GWC-1R				
92623294003	GWC-4R				
92623294004	GLF-DUP-1				
92623294005	GWC-5R				
92623294006	GWC-3R				
92623294009	GWC-2R				
92623294001	GWC-6R	EPA 3010A	723576	EPA 6010D	723671
92623294002	GWC-1R	EPA 3010A	723576	EPA 6010D	723671
92623294003	GWC-4R	EPA 3010A	723576	EPA 6010D	723671
92623294004	GLF-DUP-1	EPA 3010A	723576	EPA 6010D	723671
92623294005	GWC-5R	EPA 3010A	723576	EPA 6010D	723671
92623294006	GWC-3R	EPA 3010A	723576	EPA 6010D	723671
92623294007	GLF-EB-1	EPA 3010A	723576	EPA 6010D	723671
92623294008	GLF-FB-1	EPA 3010A	723576	EPA 6010D	723671
92623294009	GWC-2R	EPA 3010A	723581	EPA 6010D	723670
92623294001	GWC-6R	EPA 3005A	723784	EPA 6020B	723868
92623294002	GWC-1R	EPA 3005A	723784	EPA 6020B	723868
92623294003	GWC-4R	EPA 3005A	723784	EPA 6020B	723868
92623294004	GLF-DUP-1	EPA 3005A	723784	EPA 6020B	723868
92623294005	GWC-5R	EPA 3005A	723784	EPA 6020B	723868
92623294006	GWC-3R	EPA 3005A	723784	EPA 6020B	723868
92623294007	GLF-EB-1	EPA 3005A	723784	EPA 6020B	723868
92623294008	GLF-FB-1	EPA 3005A	723784	EPA 6020B	723868
92623294009	GWC-2R	EPA 3005A	723784	EPA 6020B	723868
92623294001	GWC-6R	EPA 7470A	723555	EPA 7470A	723745
92623294002	GWC-1R	EPA 7470A	723555	EPA 7470A	723745
92623294003	GWC-4R	EPA 7470A	723555	EPA 7470A	723745
92623294004	GLF-DUP-1	EPA 7470A	723555	EPA 7470A	723745
92623294005	GWC-5R	EPA 7470A	723555	EPA 7470A	723745
92623294006	GWC-3R	EPA 7470A	723555	EPA 7470A	723745
92623294007	GLF-EB-1	EPA 7470A	723555	EPA 7470A	723745
92623294008	GLF-FB-1	EPA 7470A	723555	EPA 7470A	723745
92623294009	GWC-2R	EPA 7470A	723555	EPA 7470A	723745
92623294001	GWC-6R	SM 2540C-2015	721194		
92623294002	GWC-1R	SM 2540C-2015	721194		
92623294003	GWC-4R	SM 2540C-2015	721194		
92623294004	GLF-DUP-1	SM 2540C-2015	721194		
92623294005	GWC-5R	SM 2540C-2015	721194		
92623294006	GWC-3R	SM 2540C-2015	721194		
92623294007	GLF-EB-1	SM 2540C-2015	721194		
92623294008	GLF-FB-1	SM 2540C-2015	721194		
92623294009	GWC-2R	SM 2540C-2015	721455		
92623294001	GWC-6R	EPA 300.0 Rev 2.1 1993	721661		
92623294002	GWC-1R	EPA 300.0 Rev 2.1 1993	721661		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623294003	GWC-4R	EPA 300.0 Rev 2.1 1993	721661		
92623294004	GLF-DUP-1	EPA 300.0 Rev 2.1 1993	721852		
92623294005	GWC-5R	EPA 300.0 Rev 2.1 1993	721852		
92623294006	GWC-3R	EPA 300.0 Rev 2.1 1993	721852		
92623294007	GLF-EB-1	EPA 300.0 Rev 2.1 1993	721852		
92623294008	GLF-FB-1	EPA 300.0 Rev 2.1 1993	721852		
92623294009	GWC-2R	EPA 300.0 Rev 2.1 1993	722008		

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DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Ga Power

Project

WO#: 92623294



92623294

Courier: FedEx UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID: 214

Type of Ice: Wet Blue None

Cooler Temp: 1.9

Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Date/Initials Person Examining Contents: 8/31/22 Jm

Biological Tissue Frozen?

Yes No N/A

Temp should be above freezing to 6°C

Samples out of temp criteria Samples on ice, cooling process has begun

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WG</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_ Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92623294

Project:

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit) VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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BPIN

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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92623294

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

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/1/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet Blue None

Cooler Temp:

2.5

Correction Factor:

Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

2.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Chain of Custody Present?	Samples Arrived within Hold Time?	Short Hold Time Analysis (<72 hr.)?	Rush Turn Around Time Requested?	Sufficient Volume?	Correct Containers Used? -Pace Containers Used?	Containers Intact?	Dissolved analysis: Samples Field Filtered?	Sample Labels Match COC?	Headspace in VOA Vials (>5-6mm)?	Trip Blank Present?	Trip Blank Custody Seals Present?	Comments/Discrepancy:
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COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

pH Strip Lot# 10D4611

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92623294

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9-7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (H/A)			
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

Upgradient Wells

August 2022

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623226 and 92623277

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #47077R

Review Level: Tier II

Project: 30143607.3A

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623226 and 92623277 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-17S	92623226001 92623277001	Water	8/30/2022		X	X	X
YGWA-18S	92623226002 92623277002	Water	8/30/2022		X	X	X
YGWA-18I	92623226003 92623277003	Water	8/30/2022		X	X	X
GWA-2	92623226004 92623277004	Water	8/30/2022		X	X	X
YGWA-5I	92623226005 92623277005	Water	8/30/2022		X	X	X
YGWA-5D	92623226006 92623277006	Water	8/30/2022		X	X	X
YGWA-21I	92623226007 92623277007	Water	8/30/2022		X	X	X
YGWA-1D	92623226008 92623277008	Water	8/30/2022		X	X	X
YGWA-2I	92623226009 92623277009	Water	8/30/2022		X	X	X
YGWA-30I	92623226010 92623277010	Water	8/31/2022		X	X	X
YGWA-14S	92623226011 92623277011	Water	8/31/2022		X	X	X
YGWA-1L	92623226012 92623277012	Water	8/31/2022		X	X	X

Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-47	92623226013 92623277013	Water	8/31/2022		X	X	X
YGWA-4I	92623226014 92623277014	Water	8/31/2022		X	X	X
YGWA-20S	92623226015 92623277015	Water	8/31/2022		X	X	X
YGWA-3I	92623226016 92623277018	Water	8/31/2022		X	X	X
YGWA-3D	92623226017 92623277019	Water	8/31/2022		X	X	X
YGWA-39	92623226018 92623277016	Water	8/31/2022		X	X	X
YGWA-40	92623226019 92623277017	Water	8/31/2022		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Data Review Report

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
GWA-2	Vanadium (MB)	Detected sample results <RL and <BAL	"UB" at the RL

Notes:

MB = Method blank

RL = Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte’s concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis performed using sample YWGA-17S in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-18S in association with SW-846 6020B and SW-846 7470A analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample location YGWA-5I in association with SW-846 6010D analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-5I	Calcium	73%	AC (85%)

Note:

AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to all sample results associated with the sample preparation batch.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using samples YGWA-18I and YGWA-20S in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using samples YGWA-17S, YGWA-5D, and YGWA-30I in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (± 2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:

* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 was detected in the method blank, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YGWA-17S, YGWA-18S, YGWA-18I, GWA-2, YGWA-5I, YGWA-21I, YGWA-1D, YGWA-2I, and YGWA-3D were qualified as “J” since the NAD were less than 1.96. The Radium-228 results in sample YGWA-5D was qualified as “J” since the NAD was between 1.96 and 2.58. No qualifiers were assigned to the Radium-228 results in samples YGWA-30I, YGWA-14S, YGWA-1I, YGWA-47, YGWA-4I, YGWA-39, YGWA-40, and YGWA-3I since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte’s concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

- x = measured concentration of the spiked sample.
- x₀ = measured concentration of the unspiked sample.
- c = spike concentration added.

$u^2(x)$, $u^2(x_0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ± 3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{\text{Dup}} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1 , x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

The laboratory duplicate analysis performed on sample location YGWA-39 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

The laboratory duplicate analysis performed on sample location YGWA-5D in association with SW-846 9320 analysis exhibited acceptable difference between the results.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

A field duplicate sample was not collected in association with this SDG.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered "non-detect", evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered "non-detect".

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YGWA-17S, YGWA-18I, GWA-2 – Radium-226
- YGWA-41, YGWA-39, YGWA-3I – Radium-228

- YGWA-18S, YGWA-5I, YGWA-2I – Radium-226 and total Radium
- YGWA-47 – Radium-228 and total Radium
- YGWA-30I, YGWA-14S, YGWA-1I, YGWA-20S, YGWA-40 – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks	X				X
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: November 8, 2022

PEER REVIEW: Dennis Capria

DATE: November 9, 2022

Chain of Custody / Data Qualifier Summary Table

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92623226	GWA-2	SW846 6020B	Vanadium	0.010	mg/L	UB	Blank contamination
	YGWA-5I	SW846 6010D	Calcium	2.5	mg/L	J	MS %R < LCL
	YGWA-5D	SW846 6010D	Calcium	24.8	mg/L	J	MS %R < LCL
	YGWA-21I	SW846 6010D	Calcium	7.3	mg/L	J	MS %R < LCL
	YGWA-1D	SW846 6010D	Calcium	14.9	mg/L	J	MS %R < LCL
	YGWA-2I	SW846 6010D	Calcium	25.4	mg/L	J	MS %R < LCL
	YGWA-30I	SW846 6010D	Calcium	1.3	mg/L	J	MS %R < LCL
	YGWA-14S	SW846 6010D	Calcium	1.3	mg/L	J	MS %R < LCL
	YGWA-1L	SW846 6010D	Calcium	1.9	mg/L	J	MS %R < LCL
	YGWA-47	SW846 6010D	Calcium	9.6	mg/L	J	MS %R < LCL
	YGWA-4I	SW846 6010D	Calcium	8.9	mg/L	J	MS %R < LCL
	YGWA-20S	SW846 6010D	Calcium	2.4	mg/L	J	MS %R < LCL
	YGWA-3I	SW846 6010D	Calcium	23.5	mg/L	J	MS %R < LCL
	YGWA-3D	SW846 6010D	Calcium	28.7	mg/L	J	MS %R < LCL
	YGWA-39	SW846 6010D	Calcium	16.3	mg/L	J	MS %R < LCL
YGWA-40	SW846 6010D	Calcium	6.2	mg/L	J	MS %R < LCL	
92623277	YGWA-17S	SW846 9320	Radium-228	0.964 +/- 0.357	pCi/L	J	Blank contamination
	YGWA-18S	SW846 9320	Radium-228	0.542 +/- 0.287	pCi/L	J	Blank contamination
	YGWA-18I	SW846 9320	Radium-228	0.961 +/- 0.372	pCi/L	J	Blank contamination
	GWA-2	SW846 9320	Radium-228	1.34 +/- 0.454	pCi/L	J	Blank contamination
	YGWA-5I	SW846 9320	Radium-228	0.644 +/- 0.326	pCi/L	J	Blank contamination
	YGWA-5D	SW846 9320	Radium-228	2.21 +/- 0.587	pCi/L	J	Blank contamination
	YGWA-21I	SW846 9320	Radium-228	0.959 +/- 0.367	pCi/L	J	Blank contamination
	YGWA-1D	SW846 9320	Radium-228	0.579 +/- 0.293	pCi/L	J	Blank contamination
	YGWA-2I	SW846 9320	Radium-228	0.612 +/- 0.309	pCi/L	J	Blank contamination
	YGWA-3D	SW846 9320	Radium-228	0.927 +/- 0.394	pCi/L	J	Blank contamination

Abbreviations:

%R = percent recovery
LCL = lower control limit
mg/L = milligrams per liter
MS = matrix spike
pCi/L = picoCuries per liter

Qualifiers:

J = estimated result
UB = not detected due to blank contamination

October 04, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. 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,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power

Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623226001	YGWA-17S	Water	08/30/22 15:40	08/31/22 11:03
92623226002	YGWA-18S	Water	08/30/22 10:10	08/31/22 11:03
92623226003	YGWA-18I	Water	08/30/22 13:35	08/31/22 11:03
92623226004	GWA-2	Water	08/30/22 10:05	08/31/22 11:03
92623226005	YGWA-5I	Water	08/30/22 10:52	08/31/22 11:03
92623226006	YGWA-5D	Water	08/30/22 12:05	08/31/22 11:03
92623226007	YGWA-21I	Water	08/30/22 14:30	08/31/22 11:03
92623226008	YGWA-1D	Water	08/30/22 13:50	08/31/22 11:03
92623226009	YGWA-2I	Water	08/30/22 10:00	08/31/22 11:03
92623226010	YGWA-30I	Water	08/31/22 11:30	09/01/22 09:05
92623226011	YGWA-14S	Water	08/31/22 14:15	09/01/22 09:05
92623226012	YGWA-1I	Water	08/31/22 09:10	09/01/22 09:05
92623226013	YGWA-47	Water	08/31/22 09:15	09/01/22 09:05
92623226014	YGWA-4I	Water	08/31/22 15:37	09/01/22 09:05
92623226015	YGWA-20S	Water	08/31/22 12:57	09/01/22 09:05
92623226016	YGWA-3I	Water	08/31/22 10:54	09/01/22 09:05
92623226017	YGWA-3D	Water	08/31/22 09:30	09/01/22 09:05
92623226018	YGWA-39	Water	08/31/22 13:50	09/01/22 09:05
92623226019	YGWA-40	Water	08/31/22 16:40	09/01/22 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226001	YGWA-17S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226002	YGWA-18S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226003	YGWA-18I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226004	GWA-2	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226005	YGWA-5I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226006	YGWA-5D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226007	YGWA-21I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226008	YGWA-1D	EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226009	YGWA-2I	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92623226010	YGWA-30I	SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226011	YGWA-14S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226012	YGWA-1I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92623226013	YGWA-47	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92623226014	YGWA-4I	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92623226015	YGWA-20S	SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226016	YGWA-3I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226017	YGWA-3D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226018	YGWA-39	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226019	YGWA-40	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226001	YGWA-17S					
	Performed by	Customer			08/31/22 15:58	
	pH	4.68	Std. Units		08/31/22 15:58	
EPA 6010D	Calcium	3.0	mg/L	1.0	09/12/22 21:17	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/13/22 20:15	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	09/13/22 20:15	
EPA 6020B	Boron	0.013J	mg/L	0.040	09/13/22 20:15	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	12.0	mg/L	1.0	09/08/22 01:38	
EPA 300.0 Rev 2.1 1993	Sulfate	4.7	mg/L	1.0	09/08/22 01:38	
92623226002	YGWA-18S					
	Performed by	Customer			08/31/22 15:58	
	pH	5.18	Std. Units		08/31/22 15:58	
EPA 6010D	Calcium	0.77J	mg/L	1.0	09/12/22 21:36	
EPA 6020B	Barium	0.012	mg/L	0.0050	09/16/22 15:01	
EPA 6020B	Beryllium	0.000082J	mg/L	0.00050	09/15/22 20:19	
EPA 6020B	Boron	0.014J	mg/L	0.040	09/15/22 20:19	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	09/15/22 20:19	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/15/22 20:19	
SM 2540C-2015	Total Dissolved Solids	52.0	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	09/08/22 01:52	
EPA 300.0 Rev 2.1 1993	Sulfate	1.3	mg/L	1.0	09/08/22 01:52	
92623226003	YGWA-18I					
	Performed by	Customer			08/31/22 15:59	
	pH	5.82	Std. Units		08/31/22 15:59	
EPA 6010D	Calcium	5.7	mg/L	1.0	09/12/22 21:41	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/15/22 20:43	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	09/15/22 20:43	
SM 2540C-2015	Total Dissolved Solids	100	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	09/08/22 02:06	
EPA 300.0 Rev 2.1 1993	Sulfate	0.78J	mg/L	1.0	09/08/22 02:06	
92623226004	GWA-2					
	Performed by	Customer			08/31/22 15:59	
	pH	5.39	Std. Units		08/31/22 15:59	
EPA 6010D	Calcium	23.5	mg/L	1.0	09/12/22 21:55	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Barium	0.031	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Cobalt	0.075	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	09/15/22 20:49	
EPA 6020B	Nickel	0.015	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Vanadium	0.0026J	mg/L	0.010	09/15/22 20:49	B
EPA 6020B	Zinc	0.011	mg/L	0.010	09/15/22 20:49	
SM 2540C-2015	Total Dissolved Solids	244	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/08/22 02:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	09/08/22 02:48	
EPA 300.0 Rev 2.1 1993	Sulfate	101	mg/L	2.0	09/08/22 07:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226005	YGWA-5I					
	Performed by	Customer			08/31/22 16:00	
	pH	5.00	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	2.5	mg/L	1.0	09/14/22 18:34	M1
EPA 6020B	Barium	0.017	mg/L	0.0050	09/15/22 20:55	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	09/15/22 20:55	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/08/22 03:02	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	09/08/22 03:02	
92623226006	YGWA-5D					
	Performed by	Customer			08/31/22 16:00	
	pH	7.40	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	24.8	mg/L	1.0	09/14/22 18:53	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	09/15/22 21:01	
EPA 6020B	Barium	0.0079	mg/L	0.0050	09/15/22 21:01	
EPA 6020B	Boron	0.0098J	mg/L	0.040	09/15/22 21:01	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	09/15/22 21:01	
EPA 6020B	Molybdenum	0.00089J	mg/L	0.010	09/15/22 21:01	
SM 2540C-2015	Total Dissolved Solids	148	mg/L	25.0	09/06/22 14:51	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/08/22 03:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	09/08/22 03:44	
EPA 300.0 Rev 2.1 1993	Sulfate	5.7	mg/L	1.0	09/08/22 03:44	
92623226007	YGWA-21I					
	Performed by	Customer			08/31/22 16:00	
	pH	6.58	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	7.3	mg/L	1.0	09/14/22 18:58	
EPA 6020B	Antimony	0.0046	mg/L	0.0030	09/15/22 21:19	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Barium	0.0085	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Boron	0.012J	mg/L	0.040	09/15/22 21:19	
EPA 6020B	Cobalt	0.0066	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Lithium	0.0079J	mg/L	0.030	09/15/22 21:19	
SM 2540C-2015	Total Dissolved Solids	122	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	09/08/22 03:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/08/22 03:58	
EPA 300.0 Rev 2.1 1993	Sulfate	3.2	mg/L	1.0	09/08/22 03:58	
92623226008	YGWA-1D					
	Performed by	Customer			08/31/22 16:01	
	pH	7.2	Std. Units		08/31/22 16:01	
EPA 6010D	Calcium	14.9	mg/L	1.0	09/14/22 19:12	
EPA 6020B	Barium	0.0066	mg/L	0.0050	09/15/22 21:25	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	09/15/22 21:25	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/15/22 21:25	
EPA 6020B	Molybdenum	0.0094J	mg/L	0.010	09/15/22 21:25	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 04:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.10	09/08/22 04:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226008	YGWA-1D					
EPA 300.0 Rev 2.1 1993	Sulfate	10.2	mg/L	1.0	09/08/22 04:12	
92623226009	YGWA-2I					
	Performed by	Customer			08/31/22 16:01	
	pH	7.04	Std. Units		08/31/22 16:01	
EPA 6010D	Calcium	25.4	mg/L	1.0	09/14/22 19:17	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	09/15/22 21:31	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/15/22 21:31	
EPA 6020B	Lithium	0.0044J	mg/L	0.030	09/15/22 21:31	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	09/15/22 21:31	
SM 2540C-2015	Total Dissolved Solids	153	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	09/08/22 04:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/08/22 04:26	
EPA 300.0 Rev 2.1 1993	Sulfate	20.1	mg/L	1.0	09/08/22 04:26	
92623226010	YGWA-30I					
	Performed by	Customer			09/02/22 10:43	
	pH	5.87	Std. Units		09/02/22 10:43	
EPA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:22	
EPA 6020B	Barium	0.0068	mg/L	0.0050	09/15/22 21:37	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	09/15/22 21:37	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	09/15/22 21:37	
SM 2540C-2015	Total Dissolved Solids	33.0	mg/L	25.0	09/05/22 13:00	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/22 17:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	09/08/22 17:05	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	09/08/22 17:05	
92623226011	YGWA-14S					
	Performed by	Customer			09/02/22 10:45	
	pH	5.15	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:27	
EPA 6020B	Barium	0.0075	mg/L	0.0050	09/16/22 15:19	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	09/16/22 15:19	
EPA 6020B	Boron	0.015J	mg/L	0.040	09/16/22 15:19	
SM 2540C-2015	Total Dissolved Solids	51.0	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/08/22 17:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	09/08/22 17:47	
EPA 300.0 Rev 2.1 1993	Sulfate	5.8	mg/L	1.0	09/08/22 17:47	
92623226012	YGWA-1I					
	Performed by	Customer			09/02/22 10:45	
	pH	5.64	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	1.9	mg/L	1.0	09/14/22 19:31	
EPA 6020B	Barium	0.0074	mg/L	0.0050	09/16/22 15:25	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/16/22 15:25	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	09/16/22 15:25	
SM 2540C-2015	Total Dissolved Solids	46.0	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/08/22 18:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226012	YGWA-1I					
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	09/08/22 18:01	
92623226013	YGWA-47					
	Performed by	Customer			09/02/22 10:45	
	pH	5.32	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	9.6	mg/L	1.0	09/14/22 19:36	
EPA 6020B	Barium	0.029	mg/L	0.0050	09/16/22 15:30	
EPA 6020B	Boron	0.0091J	mg/L	0.040	09/16/22 15:30	
EPA 6020B	Cobalt	0.00096J	mg/L	0.0050	09/16/22 15:30	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	09/16/22 15:30	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/08/22 18:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:15	
EPA 300.0 Rev 2.1 1993	Sulfate	48.0	mg/L	1.0	09/08/22 18:15	
92623226014	YGWA-4I					
	Performed by	Customer			09/02/22 10:46	
	pH	5.50	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	8.9	mg/L	1.0	09/14/22 19:41	
EPA 6020B	Barium	0.013	mg/L	0.0050	09/16/22 15:36	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/16/22 15:36	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/08/22 18:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	09/08/22 18:29	
EPA 300.0 Rev 2.1 1993	Sulfate	8.0	mg/L	1.0	09/08/22 18:29	
92623226015	YGWA-20S					
	Performed by	Customer			09/02/22 10:46	
	pH	5.38	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	2.4	mg/L	1.0	09/14/22 19:46	
EPA 6020B	Barium	0.011	mg/L	0.0050	09/15/22 22:07	
SM 2540C-2015	Total Dissolved Solids	62.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	09/08/22 18:43	
92623226016	YGWA-3I					
	Performed by	Customer			09/02/22 10:47	
	pH	7.49	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	23.5	mg/L	1.0	09/14/22 19:50	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/15/22 22:12	
EPA 6020B	Lithium	0.022J	mg/L	0.030	09/16/22 15:48	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	09/15/22 22:12	
SM 2540C-2015	Total Dissolved Solids	137	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 19:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	09/08/22 19:24	
EPA 300.0 Rev 2.1 1993	Sulfate	13.9	mg/L	1.0	09/08/22 19:24	
92623226017	YGWA-3D					
	Performed by	Customer			09/02/22 10:47	
	pH	7.65	Std. Units		09/02/22 10:47	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226017	YGWA-3D					
EPA 6010D	Calcium	28.7	mg/L	1.0	09/14/22 20:05	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	09/15/22 22:30	
EPA 6020B	Barium	0.0048J	mg/L	0.0050	09/15/22 22:30	
EPA 6020B	Lithium	0.021J	mg/L	0.030	09/15/22 22:30	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	09/15/22 22:30	
SM 2540C-2015	Total Dissolved Solids	141	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 19:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	09/08/22 19:38	
EPA 300.0 Rev 2.1 1993	Sulfate	6.9	mg/L	1.0	09/08/22 19:38	
92623226018	YGWA-39					
	Performed by	Customer			09/02/22 10:47	
	pH	5.30	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	16.3	mg/L	1.0	09/14/22 20:09	
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Boron	0.14	mg/L	0.040	09/15/22 22:36	
EPA 6020B	Cadmium	0.00044J	mg/L	0.00050	09/15/22 22:36	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	09/15/22 22:36	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	09/15/22 22:36	
SM 2540C-2015	Total Dissolved Solids	242	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	09/08/22 19:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 19:52	
EPA 300.0 Rev 2.1 1993	Sulfate	10.9	mg/L	1.0	09/08/22 19:52	
92623226019	YGWA-40					
	Performed by	Customer			09/02/22 10:47	
	pH	4.53	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	6.2	mg/L	1.0	09/14/22 20:14	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/15/22 22:42	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	09/15/22 22:42	
EPA 6020B	Boron	0.062	mg/L	0.040	09/15/22 22:42	
EPA 7470A	Mercury	0.00064	mg/L	0.00020	09/16/22 12:13	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/08/22 20:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	09/08/22 20:34	
EPA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	09/08/22 20:34	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-17S		Lab ID: 92623226001		Collected: 08/30/22 15:40		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 15:58		
pH	4.68	Std. Units			1		08/31/22 15:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	3.0	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:17	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 18:08	09/13/22 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 18:08	09/13/22 20:15	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	09/12/22 18:08	09/13/22 20:15	7440-39-3	
Beryllium	0.00010J	mg/L	0.00050	0.000054	1	09/12/22 18:08	09/13/22 20:15	7440-41-7	
Boron	0.013J	mg/L	0.040	0.0086	1	09/12/22 18:08	09/13/22 20:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 18:08	09/13/22 20:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 18:08	09/13/22 20:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 18:08	09/13/22 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 18:08	09/13/22 20:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 18:08	09/13/22 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 18:08	09/13/22 20:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 18:08	09/13/22 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 18:08	09/13/22 20:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	81.0	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	12.0	mg/L	1.0	0.60	1		09/08/22 01:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:38	16984-48-8	
Sulfate	4.7	mg/L	1.0	0.50	1		09/08/22 01:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-18S		Lab ID: 92623226002		Collected: 08/30/22 10:10		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 15:58		
pH	5.18	Std. Units			1		08/31/22 15:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	0.77J	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:36	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:19	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:01	7440-39-3	
Beryllium	0.00082J	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:19	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:19	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:19	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	52.0	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.0	mg/L	1.0	0.60	1		09/08/22 01:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:52	16984-48-8	
Sulfate	1.3	mg/L	1.0	0.50	1		09/08/22 01:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-181		Lab ID: 92623226003		Collected: 08/30/22 13:35		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 15:59		
pH	5.82	Std. Units			1		08/31/22 15:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.7	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:07	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:43	7439-92-1	
Lithium	0.0036J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	100	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.9	mg/L	1.0	0.60	1		09/08/22 02:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 02:06	16984-48-8	
Sulfate	0.78J	mg/L	1.0	0.50	1		09/08/22 02:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: GWA-2 Lab ID: 92623226004 Collected: 08/30/22 10:05 Received: 08/31/22 11:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 15:59		
pH	5.39	Std. Units			1		08/31/22 15:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.5	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:55	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:49	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:49	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:49	7440-47-3	
Cobalt	0.075	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:49	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/13/22 18:29	09/15/22 20:49	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:49	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:49	7439-98-7	
Nickel	0.015	mg/L	0.0050	0.00071	1	09/13/22 18:29	09/15/22 20:49	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:49	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/13/22 18:29	09/15/22 20:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:49	7440-28-0	
Vanadium	0.0026J	mg/L	0.010	0.0019	1	09/13/22 18:29	09/15/22 20:49	7440-62-2	B
Zinc	0.011	mg/L	0.010	0.0070	1	09/13/22 18:29	09/15/22 20:49	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	244	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.3	mg/L	1.0	0.60	1		09/08/22 02:48	16887-00-6	
Fluoride	0.086J	mg/L	0.10	0.050	1		09/08/22 02:48	16984-48-8	
Sulfate	101	mg/L	2.0	1.0	2		09/08/22 07:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-5I		Lab ID: 92623226005		Collected: 08/30/22 10:52		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:00		
pH	5.00	Std. Units			1		08/31/22 16:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.5	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:34	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:55	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:55	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	86.0	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.4	mg/L	1.0	0.60	1		09/08/22 03:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 03:02	16984-48-8	
Sulfate	2.4	mg/L	1.0	0.50	1		09/08/22 03:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-5D		Lab ID: 92623226006		Collected: 08/30/22 12:05		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:00		
pH	7.40	Std. Units			1		08/31/22 16:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	24.8	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:01	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:01	7440-38-2	
Barium	0.0079	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:01	7440-41-7	
Boron	0.0098J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:01	7439-92-1	
Lithium	0.0068J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:01	7439-93-2	
Molybdenum	0.00089J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	148	mg/L	25.0	10.0	1		09/06/22 14:51		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		09/08/22 03:44	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		09/08/22 03:44	16984-48-8	
Sulfate	5.7	mg/L	1.0	0.50	1		09/08/22 03:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-211		Lab ID: 92623226007		Collected: 08/30/22 14:30		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:00		
pH	6.58	Std. Units			1		08/31/22 16:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	7.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0046	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:19	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:19	7440-38-2	
Barium	0.0085	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:19	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:19	7440-47-3	
Cobalt	0.0066	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:19	7439-92-1	
Lithium	0.0079J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	122	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		09/08/22 03:58	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		09/08/22 03:58	16984-48-8	
Sulfate	3.2	mg/L	1.0	0.50	1		09/08/22 03:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-1D		Lab ID: 92623226008		Collected: 08/30/22 13:50		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:01		
pH	7.2	Std. Units			1		08/31/22 16:01		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.9	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:12	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:25	7440-38-2	
Barium	0.0066	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:25	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:25	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:25	7439-93-2	
Molybdenum	0.0094J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	116	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.3	mg/L	1.0	0.60	1		09/08/22 04:12	16887-00-6	
Fluoride	0.093J	mg/L	0.10	0.050	1		09/08/22 04:12	16984-48-8	
Sulfate	10.2	mg/L	1.0	0.50	1		09/08/22 04:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-2I		Lab ID: 92623226009		Collected: 08/30/22 10:00		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:01		
pH	7.04	Std. Units			1		08/31/22 16:01		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.4	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:17	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:31	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:31	7440-38-2	
Barium	0.0030J	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:31	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:31	7439-92-1	
Lithium	0.0044J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:31	7439-93-2	
Molybdenum	0.0068J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:31	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	153	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		09/08/22 04:26	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		09/08/22 04:26	16984-48-8	
Sulfate	20.1	mg/L	1.0	0.50	1		09/08/22 04:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-30I		Lab ID: 92623226010		Collected: 08/31/22 11:30		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:43		
pH	5.87	Std. Units			1		09/02/22 10:43		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:22	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:37	7440-38-2	
Barium	0.0068	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:37	7440-47-3	
Cobalt	0.0040J	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:37	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:44	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	33.0	mg/L	25.0	10.0	1		09/05/22 13:00		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		09/08/22 17:05	16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1		09/08/22 17:05	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		09/08/22 17:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-14S		Lab ID: 92623226011		Collected: 08/31/22 14:15		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:45		
pH	5.15	Std. Units			1		09/02/22 10:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:43	7440-38-2	
Barium	0.0075	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:19	7440-39-3	
Beryllium	0.00020J	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:19	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:46	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	51.0	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.6	mg/L	1.0	0.60	1		09/08/22 17:47	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		09/08/22 17:47	16984-48-8	
Sulfate	5.8	mg/L	1.0	0.50	1		09/08/22 17:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-11		Lab ID: 92623226012		Collected: 08/31/22 09:10		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:45		
pH	5.64	Std. Units			1		09/02/22 10:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.9	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:25	7440-38-2	
Barium	0.0074	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:25	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:08	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:08	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:25	7440-47-3	
Cobalt	0.00085J	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:49	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	09/13/22 18:29	09/17/22 03:08	7439-93-2	
Molybdenum	0.0055J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:49	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	46.0	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.5	mg/L	1.0	0.60	1		09/08/22 18:01	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		09/08/22 18:01	16984-48-8	
Sulfate	4.8	mg/L	1.0	0.50	1		09/08/22 18:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-47		Lab ID: 92623226013		Collected: 08/31/22 09:15		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:45		
pH	5.32	Std. Units			1		09/02/22 10:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.6	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:36	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:30	7440-38-2	
Barium	0.029	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:30	7440-41-7	
Boron	0.0091J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:30	7440-47-3	
Cobalt	0.00096J	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:55	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	116	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		09/08/22 18:15	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		09/08/22 18:15	16984-48-8	
Sulfate	48.0	mg/L	1.0	0.50	1		09/08/22 18:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-4I		Lab ID: 92623226014		Collected: 08/31/22 15:37		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:46		
pH	5.50	Std. Units			1		09/02/22 10:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	8.9	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:36	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:01	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	92.0	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.4	mg/L	1.0	0.60	1		09/08/22 18:29	16887-00-6	
Fluoride	0.061J	mg/L	0.10	0.050	1		09/08/22 18:29	16984-48-8	
Sulfate	8.0	mg/L	1.0	0.50	1		09/08/22 18:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-20S		Lab ID: 92623226015		Collected: 08/31/22 12:57		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:46		
pH	5.38	Std. Units			1		09/02/22 10:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.4	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:46	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:42	7440-38-2	
Barium	0.011	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:14	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:14	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/16/22 15:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/16/22 15:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	62.0	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.9	mg/L	1.0	0.60	1		09/08/22 18:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 18:43	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 18:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-3I		Lab ID: 92623226016		Collected: 08/31/22 10:54		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:47		
pH	7.49	Std. Units			1		09/02/22 10:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.5	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:50	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:12	7440-38-2	
Barium	0.0030J	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:12	7439-92-1	
Lithium	0.022J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:48	7439-93-2	
Molybdenum	0.0068J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	137	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.3	mg/L	1.0	0.60	1		09/08/22 19:24	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		09/08/22 19:24	16984-48-8	
Sulfate	13.9	mg/L	1.0	0.50	1		09/08/22 19:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-3D		Lab ID: 92623226017		Collected: 08/31/22 09:30		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:47		
pH	7.65	Std. Units			1		09/02/22 10:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.7	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:30	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:30	7440-38-2	
Barium	0.0048J	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:30	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:30	7439-93-2	
Molybdenum	0.011	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	141	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.3	mg/L	1.0	0.60	1		09/08/22 19:38	16887-00-6	
Fluoride	0.42	mg/L	0.10	0.050	1		09/08/22 19:38	16984-48-8	
Sulfate	6.9	mg/L	1.0	0.50	1		09/08/22 19:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-39		Lab ID: 92623226018		Collected: 08/31/22 13:50		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:47		
pH	5.30	Std. Units			1		09/02/22 10:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	16.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:36	7440-36-0	
Arsenic	0.0029J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:36	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:36	7440-41-7	
Boron	0.14	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:36	7440-42-8	
Cadmium	0.00044J	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:36	7440-47-3	
Cobalt	0.00085J	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:36	7439-92-1	
Lithium	0.0065J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:36	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:36	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	242	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.7	mg/L	1.0	0.60	1		09/08/22 19:52	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		09/08/22 19:52	16984-48-8	
Sulfate	10.9	mg/L	1.0	0.50	1		09/08/22 19:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-40		Lab ID: 92623226019		Collected: 08/31/22 16:40		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:47		
pH	4.53	Std. Units			1		09/02/22 10:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	6.2	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:42	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:42	7440-39-3	
Beryllium	0.00025J	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:42	7440-41-7	
Boron	0.062	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:42	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00064	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	92.0	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.3	mg/L	1.0	0.60	1		09/08/22 20:34	16887-00-6	
Fluoride	0.050J	mg/L	0.10	0.050	1		09/08/22 20:34	16984-48-8	
Sulfate	17.9	mg/L	1.0	0.50	1		09/08/22 20:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 722758 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004

METHOD BLANK: 3765944 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/12/22 21:07	

LABORATORY CONTROL SAMPLE: 3765945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765946 3765947

Parameter	Units	3765946		3765947		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	3.0	1	1	4.0	4.1	96	107	75-125	3	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 723071 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3767576 Matrix: Water
Associated Lab Samples: 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/14/22 18:24	

LABORATORY CONTROL SAMPLE: 3767577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767578 3767579

Parameter	Units	92623226005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.5	1	1	3.3	3.4	73	85	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 722711 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226001

METHOD BLANK: 3765581 Matrix: Water
Associated Lab Samples: 92623226001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00086J	0.0030	0.00078	09/13/22 18:33	
Arsenic	mg/L	ND	0.0050	0.0022	09/13/22 18:33	
Barium	mg/L	ND	0.0050	0.00067	09/13/22 18:33	
Beryllium	mg/L	ND	0.00050	0.000054	09/13/22 18:33	
Boron	mg/L	ND	0.040	0.0086	09/13/22 18:33	
Cadmium	mg/L	ND	0.00050	0.00011	09/13/22 18:33	
Chromium	mg/L	ND	0.0050	0.0011	09/13/22 18:33	
Cobalt	mg/L	ND	0.0050	0.00039	09/13/22 18:33	
Lead	mg/L	ND	0.0010	0.00089	09/13/22 18:33	
Lithium	mg/L	ND	0.030	0.00073	09/13/22 18:33	
Molybdenum	mg/L	ND	0.010	0.00074	09/13/22 18:33	
Selenium	mg/L	ND	0.0050	0.0014	09/13/22 18:33	
Thallium	mg/L	ND	0.0010	0.00018	09/13/22 18:33	

LABORATORY CONTROL SAMPLE: 3765582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584

Parameter	Units	92622406019 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	109	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584												
Parameter	Units	92622406019		MS		MSD		MS		MSD		
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec	Limits	Max	
										RPD	RPD	Qual
Barium	mg/L	0.064	0.1	0.1	0.17	0.17	108	103	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Boron	mg/L	0.18	1	1	1.2	1.2	101	99	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	98	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Cobalt	mg/L	0.0012J	0.1	0.1	0.099	0.099	98	97	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Lithium	mg/L	0.0013J	0.1	0.1	0.096	0.099	94	97	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	96	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 723035 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3767331 Matrix: Water
Associated Lab Samples: 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/15/22 20:07	
Arsenic	mg/L	ND	0.0050	0.0022	09/15/22 20:07	
Barium	mg/L	ND	0.0050	0.00067	09/15/22 20:07	
Beryllium	mg/L	ND	0.00050	0.000054	09/15/22 20:07	
Boron	mg/L	ND	0.040	0.0086	09/15/22 20:07	
Cadmium	mg/L	ND	0.00050	0.00011	09/15/22 20:07	
Chromium	mg/L	ND	0.0050	0.0011	09/15/22 20:07	
Cobalt	mg/L	ND	0.0050	0.00039	09/15/22 20:07	
Copper	mg/L	ND	0.0050	0.0010	09/15/22 20:07	
Lead	mg/L	ND	0.0010	0.00089	09/15/22 20:07	
Lithium	mg/L	ND	0.030	0.00073	09/15/22 20:07	
Molybdenum	mg/L	ND	0.010	0.00074	09/15/22 20:07	
Nickel	mg/L	ND	0.0050	0.00071	09/15/22 20:07	
Selenium	mg/L	ND	0.0050	0.0014	09/15/22 20:07	
Silver	mg/L	ND	0.0050	0.00044	09/15/22 20:07	
Thallium	mg/L	ND	0.0010	0.00018	09/15/22 20:07	
Vanadium	mg/L	0.0021J	0.010	0.0019	09/15/22 20:07	
Zinc	mg/L	ND	0.010	0.0070	09/15/22 20:07	

LABORATORY CONTROL SAMPLE: 3767332

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	0.098	98	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Copper	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Nickel	mg/L	0.1	0.097	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

LABORATORY CONTROL SAMPLE: 3767332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.094	94	80-120	
Silver	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.10	105	80-120	
Zinc	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767333 3767334

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623226002 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.093	0.10	92	100	75-125	8	20
Arsenic	mg/L	ND	0.1	0.1	0.096	0.098	95	97	75-125	3	20
Barium	mg/L	0.012	0.1	0.1	0.097	0.11	85	94	75-125	9	20
Beryllium	mg/L	0.000082J	0.1	0.1	0.095	0.095	95	95	75-125	0	20
Boron	mg/L	0.014J	1	1	0.96	0.98	94	96	75-125	2	20
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20
Chromium	mg/L	0.0015J	0.1	0.1	0.097	0.096	95	94	75-125	1	20
Cobalt	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20
Copper	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20
Lithium	mg/L	0.0014J	0.1	0.1	0.097	0.10	96	98	75-125	3	20
Molybdenum	mg/L	ND	0.1	0.1	0.087	0.094	87	94	75-125	8	20
Nickel	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20
Selenium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	3	20
Silver	mg/L	ND	0.1	0.1	0.084	0.091	84	91	75-125	8	20
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	2	20
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	99	99	75-125	0	20
Zinc	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: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	723525	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3769763 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/16/22 11:01	

LABORATORY CONTROL SAMPLE: 3769764

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769765 3769766

Parameter	Units	92623226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	96	90	75-125	7	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	721194	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226007, 92623226008, 92623226009

METHOD BLANK: 3757806 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226007, 92623226008, 92623226009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/02/22 11:11	

LABORATORY CONTROL SAMPLE: 3757807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	80-120	

SAMPLE DUPLICATE: 3757808

Parameter	Units	92623226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	78.0	4	25	

SAMPLE DUPLICATE: 3757809

Parameter	Units	92623294003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	628	638	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	721455	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3759030 Matrix: Water
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 721563	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226006

METHOD BLANK: 3759489 Matrix: Water
Associated Lab Samples: 92623226006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/06/22 14:51	

LABORATORY CONTROL SAMPLE: 3759490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	80-120	

SAMPLE DUPLICATE: 3759491

Parameter	Units	92623226006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	139	6	25	

SAMPLE DUPLICATE: 3759492

Parameter	Units	92623533010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	119	7	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	721661	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: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009

METHOD BLANK: 3760039 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 22:22	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 22:22	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 22:22	

LABORATORY CONTROL SAMPLE: 3760040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760041 3760042

Parameter	Units	92622406016		3760041		3760042		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	4.1	50	50	57.1	56.7	106	105	90-110	1	10
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.4	93	93	90-110	0	10
Sulfate	mg/L	47.3	50	50	98.1	99.8	101	105	90-110	2	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760043 3760044

Parameter	Units	92623226003		3760043		3760044		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	7.9	50	50	61.5	61.2	107	107	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10
Sulfate	mg/L	0.78J	50	50	54.0	53.6	106	106	90-110	1	10

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	722003	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: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3761858 Matrix: Water
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 14:59	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 14:59	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 14:59	

LABORATORY CONTROL SAMPLE: 3761859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761860 3761861

Parameter	Units	92623832001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	47.2	50	50	98.7	98.6	103	103	90-110	0	10		
Fluoride	mg/L	6.9	2.5	2.5	8.5	8.4	62	60	90-110	1	10	M1	
Sulfate	mg/L	833	50	50	878	879	91	93	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761862 3761863

Parameter	Units	92623226015		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	2.9	50	50	55.6	56.1	105	106	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	1	10		
Sulfate	mg/L	ND	50	50	52.5	53.0	104	105	90-110	1	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226001	YGWA-17S				
92623226002	YGWA-18S				
92623226003	YGWA-18I				
92623226004	GWA-2				
92623226005	YGWA-5I				
92623226006	YGWA-5D				
92623226007	YGWA-21I				
92623226008	YGWA-1D				
92623226009	YGWA-2I				
92623226010	YGWA-30I				
92623226011	YGWA-14S				
92623226012	YGWA-1I				
92623226013	YGWA-47				
92623226014	YGWA-4I				
92623226015	YGWA-20S				
92623226016	YGWA-3I				
92623226017	YGWA-3D				
92623226018	YGWA-39				
92623226019	YGWA-40				
92623226001	YGWA-17S	EPA 3010A	722758	EPA 6010D	722798
92623226002	YGWA-18S	EPA 3010A	722758	EPA 6010D	722798
92623226003	YGWA-18I	EPA 3010A	722758	EPA 6010D	722798
92623226004	GWA-2	EPA 3010A	722758	EPA 6010D	722798
92623226005	YGWA-5I	EPA 3010A	723071	EPA 6010D	723278
92623226006	YGWA-5D	EPA 3010A	723071	EPA 6010D	723278
92623226007	YGWA-21I	EPA 3010A	723071	EPA 6010D	723278
92623226008	YGWA-1D	EPA 3010A	723071	EPA 6010D	723278
92623226009	YGWA-2I	EPA 3010A	723071	EPA 6010D	723278
92623226010	YGWA-30I	EPA 3010A	723071	EPA 6010D	723278
92623226011	YGWA-14S	EPA 3010A	723071	EPA 6010D	723278
92623226012	YGWA-1I	EPA 3010A	723071	EPA 6010D	723278
92623226013	YGWA-47	EPA 3010A	723071	EPA 6010D	723278
92623226014	YGWA-4I	EPA 3010A	723071	EPA 6010D	723278
92623226015	YGWA-20S	EPA 3010A	723071	EPA 6010D	723278
92623226016	YGWA-3I	EPA 3010A	723071	EPA 6010D	723278
92623226017	YGWA-3D	EPA 3010A	723071	EPA 6010D	723278
92623226018	YGWA-39	EPA 3010A	723071	EPA 6010D	723278
92623226019	YGWA-40	EPA 3010A	723071	EPA 6010D	723278
92623226001	YGWA-17S	EPA 3005A	722711	EPA 6020B	722836
92623226002	YGWA-18S	EPA 3005A	723035	EPA 6020B	723160
92623226003	YGWA-18I	EPA 3005A	723035	EPA 6020B	723160
92623226004	GWA-2	EPA 3005A	723035	EPA 6020B	723160
92623226005	YGWA-5I	EPA 3005A	723035	EPA 6020B	723160
92623226006	YGWA-5D	EPA 3005A	723035	EPA 6020B	723160
92623226007	YGWA-21I	EPA 3005A	723035	EPA 6020B	723160
92623226008	YGWA-1D	EPA 3005A	723035	EPA 6020B	723160
92623226009	YGWA-2I	EPA 3005A	723035	EPA 6020B	723160

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226010	YGWA-30I	EPA 3005A	723035	EPA 6020B	723160
92623226011	YGWA-14S	EPA 3005A	723035	EPA 6020B	723160
92623226012	YGWA-1I	EPA 3005A	723035	EPA 6020B	723160
92623226013	YGWA-47	EPA 3005A	723035	EPA 6020B	723160
92623226014	YGWA-4I	EPA 3005A	723035	EPA 6020B	723160
92623226015	YGWA-20S	EPA 3005A	723035	EPA 6020B	723160
92623226016	YGWA-3I	EPA 3005A	723035	EPA 6020B	723160
92623226017	YGWA-3D	EPA 3005A	723035	EPA 6020B	723160
92623226018	YGWA-39	EPA 3005A	723035	EPA 6020B	723160
92623226019	YGWA-40	EPA 3005A	723035	EPA 6020B	723160
92623226001	YGWA-17S	EPA 7470A	723525	EPA 7470A	723743
92623226002	YGWA-18S	EPA 7470A	723525	EPA 7470A	723743
92623226003	YGWA-18I	EPA 7470A	723525	EPA 7470A	723743
92623226004	GWA-2	EPA 7470A	723525	EPA 7470A	723743
92623226005	YGWA-5I	EPA 7470A	723525	EPA 7470A	723743
92623226006	YGWA-5D	EPA 7470A	723525	EPA 7470A	723743
92623226007	YGWA-21I	EPA 7470A	723525	EPA 7470A	723743
92623226008	YGWA-1D	EPA 7470A	723525	EPA 7470A	723743
92623226009	YGWA-2I	EPA 7470A	723525	EPA 7470A	723743
92623226010	YGWA-30I	EPA 7470A	723525	EPA 7470A	723743
92623226011	YGWA-14S	EPA 7470A	723525	EPA 7470A	723743
92623226012	YGWA-1I	EPA 7470A	723525	EPA 7470A	723743
92623226013	YGWA-47	EPA 7470A	723525	EPA 7470A	723743
92623226014	YGWA-4I	EPA 7470A	723525	EPA 7470A	723743
92623226015	YGWA-20S	EPA 7470A	723525	EPA 7470A	723743
92623226016	YGWA-3I	EPA 7470A	723525	EPA 7470A	723743
92623226017	YGWA-3D	EPA 7470A	723525	EPA 7470A	723743
92623226018	YGWA-39	EPA 7470A	723525	EPA 7470A	723743
92623226019	YGWA-40	EPA 7470A	723525	EPA 7470A	723743
92623226001	YGWA-17S	SM 2540C-2015	721194		
92623226002	YGWA-18S	SM 2540C-2015	721194		
92623226003	YGWA-18I	SM 2540C-2015	721194		
92623226004	GWA-2	SM 2540C-2015	721194		
92623226005	YGWA-5I	SM 2540C-2015	721194		
92623226006	YGWA-5D	SM 2540C-2015	721563		
92623226007	YGWA-21I	SM 2540C-2015	721194		
92623226008	YGWA-1D	SM 2540C-2015	721194		
92623226009	YGWA-2I	SM 2540C-2015	721194		
92623226010	YGWA-30I	SM 2540C-2015	721455		
92623226011	YGWA-14S	SM 2540C-2015	721455		
92623226012	YGWA-1I	SM 2540C-2015	721455		
92623226013	YGWA-47	SM 2540C-2015	721455		
92623226014	YGWA-4I	SM 2540C-2015	721455		
92623226015	YGWA-20S	SM 2540C-2015	721455		
92623226016	YGWA-3I	SM 2540C-2015	721455		
92623226017	YGWA-3D	SM 2540C-2015	721455		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226018	YGWA-39	SM 2540C-2015	721455		
92623226019	YGWA-40	SM 2540C-2015	721455		
92623226001	YGWA-17S	EPA 300.0 Rev 2.1 1993	721661		
92623226002	YGWA-18S	EPA 300.0 Rev 2.1 1993	721661		
92623226003	YGWA-18I	EPA 300.0 Rev 2.1 1993	721661		
92623226004	GWA-2	EPA 300.0 Rev 2.1 1993	721661		
92623226005	YGWA-5I	EPA 300.0 Rev 2.1 1993	721661		
92623226006	YGWA-5D	EPA 300.0 Rev 2.1 1993	721661		
92623226007	YGWA-21I	EPA 300.0 Rev 2.1 1993	721661		
92623226008	YGWA-1D	EPA 300.0 Rev 2.1 1993	721661		
92623226009	YGWA-2I	EPA 300.0 Rev 2.1 1993	721661		
92623226010	YGWA-30I	EPA 300.0 Rev 2.1 1993	722003		
92623226011	YGWA-14S	EPA 300.0 Rev 2.1 1993	722003		
92623226012	YGWA-1I	EPA 300.0 Rev 2.1 1993	722003		
92623226013	YGWA-47	EPA 300.0 Rev 2.1 1993	722003		
92623226014	YGWA-4I	EPA 300.0 Rev 2.1 1993	722003		
92623226015	YGWA-20S	EPA 300.0 Rev 2.1 1993	722003		
92623226016	YGWA-3I	EPA 300.0 Rev 2.1 1993	722003		
92623226017	YGWA-3D	EPA 300.0 Rev 2.1 1993	722003		
92623226018	YGWA-39	EPA 300.0 Rev 2.1 1993	722003		
92623226019	YGWA-40	EPA 300.0 Rev 2.1 1993	722003		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Ga Power

Project

WO#: 92623226



92623226

Courier: FedEx UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID: 214

Type of Ice: Wet Blue None

Cooler Temp: 1.9 Correction Factor: 0.0 Add/Subtract (°C)

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Date/Initials Person Examining Contents: 8/31/22 JN

Biological Tissue Frozen?

Yes No N/A

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

	Chain of Custody Present?	Samples Arrived within Hold Time?	Short Hold Time Analysis (<72 hr.)?	Rush Turn Around Time Requested?	Sufficient Volume?	Correct Containers Used? -Pace Containers Used?	Containers Intact?	Dissolved analysis: Samples Field Filtered?	Sample Labels Match COC?	-Includes Date/Time/ID/Analysis Matrix: <u>WG</u>	Headspace in VOA Vials (>5-6mm)?	Trip Blank Present?	Trip Blank Custody Seals Present?	Comments/Discrepancy:
1.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
2.														
3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														
11.														

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 1004611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project

WO# : 92623226

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFW-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mech Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92623226

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/1/22 [initials]

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230

Type of Ice: Wet Blue None

Cooler Temp:

2.5 Correction Factor: Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix: W			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92623226

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

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	
Company: GA Power	Requested Project Name: SGS Contract	Project Name: Plant Water Flooded Upgrade	Requested Analytical Method (Y/N):	Requester: ENVIRONMENT CO.	Project Number:
Address: Atlanta, GA	Company Code: Atlanta Contract	Purchase Order #: Plant Water Flooded Upgrade	Preservatives:	Company Name:	Plant Project Manager: Nicole D'Ono
Phone: 470.520.6176	Project Name:	Purchase Order #:	Y/N	Address:	Plant Project #:
Requested Date: Dec	Project Number:	Plant Project #:	App III / IV Metals	Plant Project #:	Plant Project #:

ITEM #	SAMPLE ID	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 2315/2320	App I / R (ppm only)	Residual-Chlorine (Y/N)
								Unpreserved	H2SO4	HNO3	HCl	NaOH	H2SO3						
1	YQWA-39						6												
2	YQWA-40						2												
3	YQWA-11						2												
4	YQWA-10						2												
5	YQWA-21						2												
6	YQWA-31						2												
7	YQWA-3D						2												

App # Name: Don Carson, CA 68100	App # Name: Don Carson, CA 68100	App # Name: Don Carson, CA 68100	App # Name: Don Carson, CA 68100	App # Name: Don Carson, CA 68100	App # Name: Don Carson, CA 68100	App # Name: Don Carson, CA 68100	App # Name: Don Carson, CA 68100
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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.

32207
32206

Page: 1 of 2

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: GA Power	Report To: SCS Contacts	Attention: Southem Co.	Company Name: Southem Co.	Address:	Regulatory Agency:
Address: Atlanta, GA	Copy To: Arcadis Contacts	Project Name: Plant Yates Pooled Upgrader	Address:	State / Location: Georgia	
Email To: jsucker@scsutilities.com	Purchase Order #: Plant Yates Pooled Upgrader	Pace Project Manager: Nicole D'Olivo	Pace Quote: 10840	Pace Profile #: 10840	
Phone: 470.620.6176	Project Number:				
Requested Date Date:					

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / . -)</small> Sample IDs must be unique	MATRIX <small>Drinking Water Waste Water Process Water Surface Water Other</small>	CODE <small>DW WW PW SW AR OT TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST	Requester Analysis Method (Y/N)	Residual Chlorine (Y/N)	pH:	
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other
1	YGWA-39																	
2	YGWA-40																	
3	YGWA-11																	
4	YGWA-1D																	
5	YGWA-21																	
6	YGWA-31																	
7	YGWA-3D																	
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME	
Anions Suite 300.0 (Cl, F, Sulfate)		[Signature]		[Signature]		9/11/22		0800	
App III Metals: Boron 60208, Ca 60100;		[Signature]		[Signature]		9/11/22		0905	
App VI Metals: Zn, Ag, Ni, V		[Signature]		[Signature]		9/11/22		0905	
App IV: Metals 60208: Arsenic (As), Barium (Ba),		[Signature]		[Signature]		9/11/22		0905	
Benflum (Bf), Cadmium (Cd), Chromium (Cr),		[Signature]		[Signature]		9/11/22		0905	
Cobalt (Co), Lead (Pb),		[Signature]		[Signature]		9/11/22		0905	
Lithium (Li), Molybdenum (Mo), Selenium (Se)		[Signature]		[Signature]		9/11/22		0905	
7040A: Mercury (Hg)		[Signature]		[Signature]		9/11/22		0905	

SAMPLER NAME AND SIGNATURE		DATE SIGNED: 9/11/22
PRINT Name of SAMPLER:	[Signature]	
SIGNATURE of SAMPLER:	[Signature]	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: lauckner@southernco.com
 Phone: 470.620.6176 Fax
 Requested Due Date:

Section B

Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Yates Pooled Upgradient
 Project Name: Project Number:

Section C

Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 P.O. Box:
 Pool Profile #: 10840

Page: 1 of 2

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique</small>	MATRIX <small>Dinking Water Water Waste Water Product Sewage Other M DM Tissue</small>	CODE <small>DW WT WW P SL OL AP DT TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Requested Analysis (Y/N)	Residual Chlorine (Y/N)	pH:	
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	YGWA-47																
2	YGWA-2																
3	YGWA-41																
4	YGWA-51																
5	YGWA-5D																
6	YGWA-17S																
7	YGWA-18S																
8	YGWA-181																
9	YGWA-20S																
10	YGWA-211																
11	YGWA-301																
12	YGWA-14S																

ADDITIONAL COMMENTS:
 App III Metals: Boron 6020B, Ca 6010D, App III 6020B: Zn, Ag, Ni, V
 App IV Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Mercury (Hg)

RELINQUISHED BY / AFFILIATION: [Signature] [Date] [Time]
ACCEPTED BY / AFFILIATION: [Signature] [Date] [Time]

SAMPLER NAME AND SIGNATURE: [Signature]
PRINT Name of SAMPLER: [Name]
SIGNATURE of SAMPLER: [Signature]
DATE Signed: [Date]

TEMP in C: []
Received on Ice (Y/N): []
Cooler Sealed (Y/N): []
Samples Intact (Y/N): []

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

Section A
 Required Client Information:

Company: GA Power
 Address: Atlanta, GA
 Email To: laudaker@southernco.com
 Phone: 470 620 6176 Fax
 Requested Due Date:

Section B
 Required Project Information:

Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Yales Pooled Upgradient
 Project Name: Project Number:

Section C
 Invoice Information:

Attention: Southern Co.
 Company Name: Paces Quota:
 Address: Paces Project Manager: Nicole D'Olivo
 Paces Profile #: 10840

Regulatory Agency: Georgia
 State / Location:

Page: 2 of 3

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX Drinking Water Waste Water Wastewater Product Soil/Sediment Sludge Air Other Tissue	CODE DW WT WW P S SL A O TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Requested Analysis Reported (Y/N)	Residual Chlorine (Y/N)
						START DATE	END DATE						
1	YGWA-39								5 2 3				
2	YGWA-40								5 2 3				
3	YGWA-11								5 2 3				
4	YGWA-1D								5 2 3				
5	YGWA-21								5 2 3				
6	YGWA-31								5 2 3				
7	YGWA-3D								5 2 3				
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS
 Arcadis Suite 300 0 (Cl, F, Sulfate)
 App III Metals: Boron 6020B, Ca 6010D,
 App III 6020B: Zn, Ag, Ni, V
 App IV Metals: Antimony (Sb), Arsenic (As), Barium (Ba),
 Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb),
 Lithium (Li), Molybdenum (Mo), Selenium (Se)
 7040A: Mercury (Hg)

REINQUISHED BY / AFFILIATION
 Date: 9/1/12
 Signature: [Handwritten]

ACCEPTED BY / AFFILIATION
 Date: 9/1/12
 Time: 0800
 Signature: [Handwritten]
 Date Signed: 9/1

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: [Handwritten]
 SIGNATURE OF SAMPLER: [Handwritten]

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

November 03, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

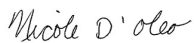
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

Revision 1: Issued on 11/3/22 to include Radium QC Sheets.

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis

Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Pace Analytical Services Pennsylvania

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

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623277001	YGWA-17S	Water	08/30/22 15:40	08/31/22 11:03
92623277002	YGWA-18S	Water	08/30/22 10:10	08/31/22 11:03
92623277003	YGWA-18I	Water	08/30/22 13:35	08/31/22 11:03
92623277004	GWA-2	Water	08/30/22 10:05	08/31/22 11:03
92623277005	YGWA-5I	Water	08/30/22 10:52	08/31/22 11:03
92623277006	YGWA-5D	Water	08/30/22 12:05	08/31/22 11:03
92623277007	YGWA-21I	Water	08/30/22 14:30	08/31/22 11:03
92623277008	YGWA-1D	Water	08/30/22 13:50	08/31/22 11:03
92623277009	YGWA-2I	Water	08/30/22 10:00	08/31/22 11:03
92623277010	YGWA-30I	Water	08/31/22 11:30	09/01/22 09:05
92623277011	YGWA-14S	Water	08/31/22 14:15	09/01/22 09:05
92623277012	YGWA-1I	Water	08/31/22 09:10	09/01/22 09:05
92623277013	YGWA-47	Water	08/31/22 09:15	09/01/22 09:05
92623277014	YGWA-4I	Water	08/31/22 15:37	09/01/22 09:05
92623277015	YGWA-20S	Water	08/31/22 12:57	09/01/22 09:05
92623277016	YGWA-39	Water	08/31/22 13:50	09/01/22 09:05
92623277017	YGWA-40	Water	08/31/22 16:40	09/01/22 09:05
92623277018	YGWA-3I	Water	08/31/22 10:54	09/01/22 09:05
92623277019	YGWA-3D	Water	08/31/22 09:30	09/01/22 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623277001	YGWA-17S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277002	YGWA-18S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277003	YGWA-18I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277004	GWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277005	YGWA-5I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277006	YGWA-5D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277007	YGWA-21I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277008	YGWA-1D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277009	YGWA-2I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277010	YGWA-30I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277011	YGWA-14S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277012	YGWA-1I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277013	YGWA-47	EPA 9315	RMS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623277014	YGWA-4I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92623277015	YGWA-20S	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277016	YGWA-39	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92623277017	YGWA-40	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92623277018	YGWA-3I	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277019	YGWA-3D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277001	YGWA-17S					
EPA 9315	Radium-226	0.114 ± 0.0935 (0.148) C:97% T:NA	pCi/L		09/21/22 16:06	
EPA 9320	Radium-228	0.964 ± 0.357 (0.496) C:79% T:96%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	1.08 ± 0.451 (0.644)	pCi/L		09/22/22 16:49	
92623277002	YGWA-18S					
EPA 9315	Radium-226	0.0688 ± 0.0906 (0.189) C:97% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.542 ± 0.287 (0.493) C:82% T:95%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	0.611 ± 0.378 (0.682)	pCi/L		09/22/22 16:49	
92623277003	YGWA-18I					
EPA 9315	Radium-226	0.0453 ± 0.0847 (0.194) C:91% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.961 ± 0.372 (0.555) C:81% T:93%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.01 ± 0.457 (0.749)	pCi/L		09/22/22 16:49	
92623277004	GWA-2					
EPA 9315	Radium-226	0.181 ± 0.124 (0.194) C:91% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	1.34 ± 0.454 (0.623) C:83% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.52 ± 0.578 (0.817)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277005	YGWA-5I					
EPA 9315	Radium-226	0.0755 ± 0.109 (0.238) C:95% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.644 ± 0.326 (0.564) C:79% T:97%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.720 ± 0.435 (0.802)	pCi/L		09/22/22 16:49	
92623277006	YGWA-5D					
EPA 9315	Radium-226	3.13 ± 0.626 (0.210) C:93% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	2.21 ± 0.587 (0.575) C:82% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	5.34 ± 1.21 (0.785)	pCi/L		09/22/22 16:49	
92623277007	YGWA-21I					
EPA 9315	Radium-226	0.307 ± 0.154 (0.202) C:92% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.959 ± 0.367 (0.535) C:81% T:92%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.27 ± 0.521 (0.737)	pCi/L		09/22/22 16:49	
92623277008	YGWA-1D					
EPA 9315	Radium-226	0.248 ± 0.149 (0.239) C:94% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.579 ± 0.293 (0.483) C:82% T:88%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.827 ± 0.442 (0.722)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277009	YGWA-2I					
EPA 9315	Radium-226	0.0872 ± 0.111 (0.234) C:93% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.612 ± 0.309 (0.528) C:83% T:94%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.699 ± 0.420 (0.762)	pCi/L		09/22/22 16:49	
92623277010	YGWA-30I					
EPA 9315	Radium-226	-0.0454 ± 0.0594 (0.213) C:94% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.506 ± 0.326 (0.611) C:81% T:92%	pCi/L		09/21/22 15:02	
Total Radium Calculation	Total Radium	0.506 ± 0.385 (0.824)	pCi/L		09/22/22 16:49	
92623277011	YGWA-14S					
EPA 9315	Radium-226	0.0608 ± 0.106 (0.240) C:99% T:NA	pCi/L		09/21/22 18:12	
EPA 9320	Radium-228	0.360 ± 0.304 (0.605) C:81% T:90%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.421 ± 0.410 (0.845)	pCi/L		09/22/22 16:49	
92623277012	YGWA-1I					
EPA 9315	Radium-226	0.0430 ± 0.0679 (0.146) C:98% T:NA	pCi/L		09/21/22 18:12	
EPA 9320	Radium-228	0.447 ± 0.314 (0.593) C:78% T:94%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.490 ± 0.382 (0.739)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277013	YGWA-47					
EPA 9315	Radium-226	0.367 ± 0.173 (0.233) C:98% T:NA	pCi/L		09/22/22 08:08	
EPA 9320	Radium-228	0.347 ± 0.308 (0.623) C:81% T:95%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.714 ± 0.481 (0.856)	pCi/L		09/22/22 16:49	
92623277014	YGWA-4I					
EPA 9315	Radium-226	0.625 ± 0.214 (0.185) C:97% T:NA	pCi/L		09/22/22 08:43	
EPA 9320	Radium-228	0.337 ± 0.338 (0.698) C:82% T:89%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.962 ± 0.552 (0.883)	pCi/L		09/22/22 16:49	
92623277015	YGWA-20S					
EPA 9315	Radium-226	0.126 ± 0.104 (0.183) C:96% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.0579 ± 0.297 (0.681) C:81% T:91%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.184 ± 0.401 (0.864)	pCi/L		09/22/22 16:49	
92623277016	YGWA-39					
EPA 9315	Radium-226	0.642 ± 0.214 (0.200) C:97% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.295 ± 0.310 (0.641) C:80% T:91%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.937 ± 0.524 (0.841)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277017	YGWA-40					
EPA 9315	Radium-226	0.202 ± 0.139 (0.236)	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	C:98% T:NA 0.311 ± 0.325 (0.675)	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	C:77% T:95% 0.513 ± 0.464 (0.911)	pCi/L		09/22/22 16:49	
92623277018	YGWA-3I					
EPA 9315	Radium-226	0.647 ± 0.215 (0.149)	pCi/L		09/22/22 10:19	
EPA 9320	Radium-228	C:92% T:NA 0.687 ± 0.386 (0.703)	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	C:80% T:89% 1.33 ± 0.601 (0.852)	pCi/L		09/22/22 16:49	
92623277019	YGWA-3D					
EPA 9315	Radium-226	1.19 ± 0.306 (0.187)	pCi/L		09/22/22 12:51	
EPA 9320	Radium-228	C:92% T:NA 0.927 ± 0.394 (0.629)	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	C:81% T:92% 2.12 ± 0.700 (0.816)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-17S **Lab ID: 92623277001** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.114 ± 0.0935 (0.148) C:97% T:NA	pCi/L	09/21/22 16:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.964 ± 0.357 (0.496) C:79% T:96%	pCi/L	09/21/22 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.08 ± 0.451 (0.644)	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-18S **Lab ID: 92623277002** Collected: 08/30/22 10:10 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0688 ± 0.0906 (0.189) C:97% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.542 ± 0.287 (0.493) C:82% T:95%	pCi/L	09/21/22 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.611 ± 0.378 (0.682)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-181 **Lab ID: 92623277003** Collected: 08/30/22 13:35 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0453 ± 0.0847 (0.194) C:91% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.961 ± 0.372 (0.555) C:81% T:93%	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01 ± 0.457 (0.749)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: GWA-2 **Lab ID: 92623277004** Collected: 08/30/22 10:05 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.181 ± 0.124 (0.194) C:91% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.34 ± 0.454 (0.623) C:83% T:89%	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.52 ± 0.578 (0.817)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-5I **Lab ID: 92623277005** Collected: 08/30/22 10:52 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0755 ± 0.109 (0.238) C:95% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.644 ± 0.326 (0.564) C:79% T:97%	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.720 ± 0.435 (0.802)	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-5D Lab ID: 92623277006 Collected: 08/30/22 12:05 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	3.13 ± 0.626 (0.210) C:93% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	2.21 ± 0.587 (0.575) C:82% T:89%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	5.34 ± 1.21 (0.785)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-211 **Lab ID: 92623277007** Collected: 08/30/22 14:30 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.307 ± 0.154 (0.202) C:92% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.959 ± 0.367 (0.535) C:81% T:92%	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.27 ± 0.521 (0.737)	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-1D Lab ID: 92623277008 Collected: 08/30/22 13:50 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.248 ± 0.149 (0.239) C:94% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.579 ± 0.293 (0.483) C:82% T:88%	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.827 ± 0.442 (0.722)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-2I Lab ID: 92623277009 Collected: 08/30/22 10:00 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0872 ± 0.111 (0.234) C:93% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.612 ± 0.309 (0.528) C:83% T:94%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.699 ± 0.420 (0.762)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-30I Lab ID: 92623277010 Collected: 08/31/22 11:30 Received: 09/01/22 09:05 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0454 ± 0.0594 (0.213) C:94% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.506 ± 0.326 (0.611) C:81% T:92%	pCi/L	09/21/22 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.506 ± 0.385 (0.824)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-14S **Lab ID: 92623277011** Collected: 08/31/22 14:15 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0608 ± 0.106 (0.240) C:99% T:NA	pCi/L	09/21/22 18:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.360 ± 0.304 (0.605) C:81% T:90%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.421 ± 0.410 (0.845)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-11 **Lab ID: 92623277012** Collected: 08/31/22 09:10 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0430 ± 0.0679 (0.146) C:98% T:NA	pCi/L	09/21/22 18:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.447 ± 0.314 (0.593) C:78% T:94%	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.490 ± 0.382 (0.739)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-47 **Lab ID: 92623277013** Collected: 08/31/22 09:15 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.367 ± 0.173 (0.233) C:98% T:NA	pCi/L	09/22/22 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.347 ± 0.308 (0.623) C:81% T:95%	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.714 ± 0.481 (0.856)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-4I **Lab ID: 92623277014** Collected: 08/31/22 15:37 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.625 ± 0.214 (0.185) C:97% T:NA	pCi/L	09/22/22 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.337 ± 0.338 (0.698) C:82% T:89%	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.962 ± 0.552 (0.883)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-20S Lab ID: 92623277015 Collected: 08/31/22 12:57 Received: 09/01/22 09:05 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.126 ± 0.104 (0.183) C:96% T:NA	pCi/L	09/22/22 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0579 ± 0.297 (0.681) C:81% T:91%	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.184 ± 0.401 (0.864)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-39 **Lab ID: 92623277016** Collected: 08/31/22 13:50 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.642 ± 0.214 (0.200) C:97% T:NA	pCi/L	09/22/22 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.295 ± 0.310 (0.641) C:80% T:91%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.937 ± 0.524 (0.841)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-40 **Lab ID: 92623277017** Collected: 08/31/22 16:40 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.202 ± 0.139 (0.236) C:98% T:NA	pCi/L	09/22/22 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.311 ± 0.325 (0.675) C:77% T:95%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.513 ± 0.464 (0.911)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-3I **Lab ID: 92623277018** Collected: 08/31/22 10:54 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.647 ± 0.215 (0.149) C:92% T:NA	pCi/L	09/22/22 10:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.687 ± 0.386 (0.703) C:80% T:89%	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.33 ± 0.601 (0.852)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

Sample: YGWA-3D **Lab ID: 92623277019** Collected: 08/31/22 09:30 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.19 ± 0.306 (0.187) C:92% T:NA	pCi/L	09/22/22 12:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.927 ± 0.394 (0.629) C:81% T:92%	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.12 ± 0.700 (0.816)	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

QC Batch: 530872

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

METHOD BLANK: 2574649

Matrix: Water

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0321 ± 0.0991 (0.243) C:97% T:NA	pCi/L	09/21/22 16:07	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

QC Batch: 530871

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

METHOD BLANK: 2574648

Matrix: Water

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.757 ± 0.340 (0.552) C:80% T:96%	pCi/L	09/21/22 11:51	

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

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QUALIFIERS

Project: Yates Pooled Upgradient Rads-Revised Report

Pace Project No.: 92623277

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277001	YGWA-17S	EPA 9315	530872		
92623277002	YGWA-18S	EPA 9315	530872		
92623277003	YGWA-18I	EPA 9315	530872		
92623277004	GWA-2	EPA 9315	530872		
92623277005	YGWA-5I	EPA 9315	530872		
92623277006	YGWA-5D	EPA 9315	530872		
92623277007	YGWA-21I	EPA 9315	530872		
92623277008	YGWA-1D	EPA 9315	530872		
92623277009	YGWA-2I	EPA 9315	530872		
92623277010	YGWA-30I	EPA 9315	530872		
92623277011	YGWA-14S	EPA 9315	530872		
92623277012	YGWA-1I	EPA 9315	530872		
92623277013	YGWA-47	EPA 9315	530872		
92623277014	YGWA-4I	EPA 9315	530872		
92623277015	YGWA-20S	EPA 9315	530872		
92623277016	YGWA-39	EPA 9315	530872		
92623277017	YGWA-40	EPA 9315	530872		
92623277018	YGWA-3I	EPA 9315	530872		
92623277019	YGWA-3D	EPA 9315	530872		
92623277001	YGWA-17S	EPA 9320	530871		
92623277002	YGWA-18S	EPA 9320	530871		
92623277003	YGWA-18I	EPA 9320	530871		
92623277004	GWA-2	EPA 9320	530871		
92623277005	YGWA-5I	EPA 9320	530871		
92623277006	YGWA-5D	EPA 9320	530871		
92623277007	YGWA-21I	EPA 9320	530871		
92623277008	YGWA-1D	EPA 9320	530871		
92623277009	YGWA-2I	EPA 9320	530871		
92623277010	YGWA-30I	EPA 9320	530871		
92623277011	YGWA-14S	EPA 9320	530871		
92623277012	YGWA-1I	EPA 9320	530871		
92623277013	YGWA-47	EPA 9320	530871		
92623277014	YGWA-4I	EPA 9320	530871		
92623277015	YGWA-20S	EPA 9320	530871		
92623277016	YGWA-39	EPA 9320	530871		
92623277017	YGWA-40	EPA 9320	530871		
92623277018	YGWA-3I	EPA 9320	530871		
92623277019	YGWA-3D	EPA 9320	530871		
92623277001	YGWA-17S	Total Radium Calculation	534811		
92623277002	YGWA-18S	Total Radium Calculation	534811		
92623277003	YGWA-18I	Total Radium Calculation	534811		
92623277004	GWA-2	Total Radium Calculation	534811		
92623277005	YGWA-5I	Total Radium Calculation	534811		
92623277006	YGWA-5D	Total Radium Calculation	534811		
92623277007	YGWA-21I	Total Radium Calculation	534811		
92623277008	YGWA-1D	Total Radium Calculation	534811		
92623277009	YGWA-2I	Total Radium Calculation	534811		
92623277010	YGWA-30I	Total Radium Calculation	534811		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277011	YGWA-14S	Total Radium Calculation	534811		
92623277012	YGWA-11	Total Radium Calculation	534811		
92623277013	YGWA-47	Total Radium Calculation	534811		
92623277014	YGWA-4I	Total Radium Calculation	534811		
92623277015	YGWA-20S	Total Radium Calculation	534811		
92623277016	YGWA-39	Total Radium Calculation	534811		
92623277017	YGWA-40	Total Radium Calculation	534811		
92623277018	YGWA-3I	Total Radium Calculation	534811		
92623277019	YGWA-3D	Total Radium Calculation	534811		

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DC#_ Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Ga Power

Project:

WO#: 92623277



Courier: FedEx UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID: 214

Type of Ice: Wet Blue None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Date/Initials Person Examining Contents: 8/31/22 Jn

Biological Tissue Frozen?

Yes No N/A

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WG</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project

WO#: 92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A -- lab)	SP2T-250 mL Sterile Plastic (N/A -- lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: gaoc@scsinc.com
 Phone: 470.620.5178 Fax:
 Requested Date:

Section B Required Project Information:
 Report To: SCS Contracts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Yields Pooled Upgradient
 Project Name: Plant Yields Pooled Upgradient
 Project Number:

Section C Invoicing Information:
 Attention: Souffran Co.
 Company Name:
 Address:
 City:
 State:
 Zip:
 Plant Project Manager: Nicole D'Onofrio
 Plant Profile #: 10840

Page: | of |

ITEMS	MATRIX	CODE	SAMPLE TYPE (R-DRAB <COMP>)	COLLECTED		SPRINKLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						App 111 (EPA only)	Received on (Y/M)	Sample (Y/N)	Coded (Y/N)	Sealed (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	H2O2	H2SO3					
YGWA-47	Water	W	G	8/30/05	-	-	5	2	3									
GWA-2	Water	W	G	8/30/05	-	-	5	2	3									
YGWA-41	Water	W	G	-	-	-	5	2	3									
YGWA-51	Water	W	G	-	-	-	5	2	3									
YGWA-5D	Water	W	G	-	-	-	5	2	3									
YGWA-17S	Water	W	G	-	-	-	5	2	3									
YGWA-18S	Water	W	G	-	-	-	5	2	3									
YGWA-181	Water	W	G	-	-	-	5	2	3									
YGWA-20S	Water	W	G	-	-	-	5	2	3									
YGWA-211	Water	W	G	-	-	-	5	2	3									
YGWA-301	Water	W	G	-	-	-	5	2	3									
YGWA-14S	Water	W	G	-	-	-	5	2	3									

ARCADIS
 200 D. C. F. Bulbax
 400 W. Market St. 4th Fl. N.Y.
 App No: 02018; Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Manganese (Mn), Molybdenum (Mo), Selenium (Se), Toluene (Tol), Vanadium (V), Zinc (Zn)

Received on: 8/31/05
 Coded: 8/31/05
 Sealed: 8/31/05

Plant Yields Pooled Upgradient
 Plant Profile #: 10840

Signature of Sampler: Jeff Swanson
 Date Signed: 8/31/05

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Requested Project Information:	
Company: GA Power	Report To: SCS Contracts	Company Name: Southern Co.	Address: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contracts	Project Name: Plant Y status Pooled Upgrade	Project Number: 100470
Email To: lauxobale@scscontract.com	Purchase Order #: 470.620.6176	Plant Name: Plant Y status Pooled Upgrade	Plant Address: 100470
Phone: 470.620.6176	Requested Due Date:	Plant Project Manager: Nicole D'Onofrio	Plant Profile #: 100470

ITEM #	LOCATION	CODE	MATRIX CODE (see field codes to left)	COLLECTED		SAMPLE TYPE (0-DNA/0-COMP)	TEMP. AT COLLECTION	PRESERVATIVES	APPROVALS	APP. 1/18 (BPTZUM ONLY)	RECEIVED ON	RECEIVED BY
				START DATE TIME	END DATE TIME							
YGWA-47
YGWA-2
YGWA-41
YGWA-51
YGWA-50
YGWA-175
YGWA-185
YGWA-181
YGWA-205
YGWA-211
YGWA-301
YGWA-145

Antonio Saba 3010 (C.I. F. Sulfide) App III Metals: Bore 60208, Ca 90100, App III Sulfide: Zn, Ag, Ni, V	App IV: Metals 60208: Arsenic (As), Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)	App V: Metals 60208: Boron (B), Calcium (Ca), Copper (Cu), Lead (Pb), Magnesium (Mg), Manganese (Mn), Nickel (Ni), Potassium (K), Sodium (Na), Strontium (Sr), Vanadium (V), Zinc (Zn)
Date: 8/12/12 Time: 10:15 AM Signature: <i>[Signature]</i>	Date: 8/12/12 Time: 11:22 AM Signature: <i>[Signature]</i>	Date: 8/12/12 Time: 11:22 AM Signature: <i>[Signature]</i>

2377
3226

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

Section A
Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: Inquiries@southernco.com
Phone: 470.620.6176 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #: Plant Yastes Pooled Upgrade
Project Name: Nickel D'Orso
Project Number: 10840

Section C
Invoicing Information:
Analyst: Southern Co.
Company Name:
Address:
Plant Project Manager: Nickel D'Orso
Plant Profile #: 10840

FILM #	Matrix Code (see wild codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							App BVA Metals	CL F, SQA	TDB (2640C)	RAD 9319/9320	App II (Brysum only)	Residual Chlorine (VNI)
		START DATE TIME	END DATE TIME			H2SO4	HNO3	HCl	NO3H	MnSO4	Methanol	Other						
1	YGWA-67	9/11/23		0800	5	2												
2	YGWA-2	9/11/23		0800	5	2												
3	YGWA-4	9/11/23		0800	8	2												
4	YGWA-5	9/11/23		0800	5	2												
5	YGWA-5D	9/11/23		0800	5	2												
6	YGWA-178	9/11/23		0800	5	2												
7	YGWA-16S	9/11/23		0800	5	2												
8	YGWA-181	9/11/23		0800	5	2												
9	YGWA-20S	9/11/23		0800	5	2												
10	YGWA-211	9/11/23		0800	5	2												
11	YGWA-301	9/11/23		0800	5	2												
12	YGWA-14S	9/11/23		0800	5	2												

Section D
Arizona Soils 301.0 (Cl, F, Subst)
App II Metals: Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Arsenic (As), Ni, V

Section E
App IV Metals: Barium (Ba), Bismuth (Bi), Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Arsenic (As), Ni, V

Client: *Whall Case*
Analyst: *M. Williams*
Plant: *Plant Yastes Pooled Upgrade*
Date: *9/11/23*
Time: *0800*

Signature: *Whall Case*
Date Signed: *9/11/23*



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Client Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/1/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230

Type of Ice: Wet Blue None

Cooler Temp: 2.5 Correction Factor: Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun.

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

3226
3227

Page: 4 of 2

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southernco.com
 Phone: 470.620.6176
 Requested Due Date:

Section B
Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Yates Pooled Upgradient
 Project Name: Plant Yates Pooled Upgradient
 Project Number:

Section C
Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Nicole D'Oleio
 Pace Profile #: 10840

Regulatory Agency
 State / Location
 Georgia

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES		Analyses Test Y/N	Requested Analysis (Inlined Y/N)		TEMP IN C	Received on (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
			START DATE	END DATE				TIME	DATE		TIME	DATE					
1	Drinking Water	DW			WG G		5	Unpreserved	H2SO4		App III / IV Metals						
2	Waste Water	WW			WG G		5		HCl		App I / II (Gypsum only)						
3	Waste Water Product	WWP			WG G		5		HNO3								
4	Waste Water Solid/Semi	WWS			WG G		5		NaOH								
5	Waste Water Sludge	WWSL			WG G		5		Na2S2O3								
6	Wipe	WI			WG G		5		Other								
7	Air	AR			WG G		5										
8	Other	OT			WG G		5										
9	Tissue	TS			WG G		5										
10																	
11																	
12																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Antions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> Arcadis	9/1/22	0800	<i>[Signature]</i> HCS	9/1/22	0900	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B; Zn, Ag, Ni, V	<i>[Signature]</i> HCS	9/1/22		<i>[Signature]</i> Pace	9/1/22	0905	
App IV; Metals 6020B; Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A; Mercury (Hg)	<i>[Signature]</i> Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: JESSICA WARD
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: 9/1/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-226
Analyst: RMS
Date: 9/14/2022
Worklist: 68729
Matrix: DW

Method Blank Assessment	
MB Sample ID	2574649
MB concentration:	0.032
M/B Counting Uncertainty:	0.099
MB MDC:	0.243
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	
		LCS68729	YCS68729
Count Date:	9/22/2022		
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/mL):	24.023		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.508		
Target Conc. (pCi/L, g, F):	4.733		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	4.446		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.486		
Numerical Performance Indicator:	-1.15		
Percent Recovery:	93.94%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Result:			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

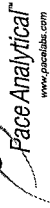
Duplicate Sample Assessment		Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92623277016	Sample I.D.:	92623277016DUP
Duplicate Sample I.D.:	92623277016DUP	Sample MS I.D.:	
Sample Result (pCi/L, g, F):	0.642	Sample MSD I.D.:	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.193	Sample Matrix Spike Result:	
Sample Duplicate Result (pCi/L, g, F):	0.556	Sample Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.176	Sample Matrix Spike Duplicate Result:	
Are sample and/or duplicate results below RL?	NO	Sample Spike Duplicate Result:	
Duplicate Numerical Performance Indicator:	0.644	Duplicate Numerical Performance Indicator:	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.33%	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	N/A	MS/MSD Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	Pass	% RPD Limit:	
% RPD Limit:	25%		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LAM 9/12/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 9/9/2022
Worklist: 68728
Matrix: WT

Method Blank Assessment	MB Sample ID: 2574648
	MB concentration: 0.757
	M/B 2 Sigma CSU: 0.340
	MB MDC: 0.552
	MB Numerical Performance Indicator: 4.37
	MB Status vs Numerical Indicator: Fail*
	MB Status vs. MDC: See Comment*

LCS (Y or N)?	N
LCS68728	LCS68728
Count Date:	9/21/2022
Spike I.D.:	22-016
Decay Corrected Spike Concentration (pCi/mL):	34.254
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.807
Target Conc. (pCi/L, g, F):	4.245
Uncertainty (Calculated):	0.208
Result (pCi/L, g, F):	4.828
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.031
Numerical Performance Indicator:	1.09
Percent Recovery:	113.74%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MS Spike Uncertainty (calculated): Sample Result: 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below:
Sample I.D.: 92623277006 Duplicate Sample I.D.: 92623277006DUP Sample Result 2 Sigma CSU (pCi/L, g, F): 2.215 Sample Duplicate Result (pCi/L, g, F): 0.587 Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 1.505 Are sample and/or duplicate results below RL? 0.470 Duplicate Numerical Performance Indicator: See Below ## Duplicate RPD: 1.850 Duplicate Status vs Numerical Indicator: Pass Duplicate Status vs RPD: Fail*** % RPD Limit: 36%	92623277006 92623277006DUP

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Appendix B

Field Sampling Reports

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 08/30/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 870001 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.01	4.01	4.00	4.01
pH	S.U.	7.00	7.00	6.99	6.99	7.00	7.00
pH	S.U.	10.00	10.00	9.95	9.95	10.00	10.00
ORP	mV	220.0	220.0	220.0	220.0	228.3	226.8

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.8	19.8	19.7	0.02	19.8
Turbidity	NTU	100	101	100	101	20.0	101
Turbidity	NTU	800	799	802	813	100	806
Turbidity	NTU	<0.10	0.08	0.02	0.02	801	0.1

Date: 08/30/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1409	1419	1409	1413	1409	1409
pH	S.U.	4.00	4.01	4.02	4.01	4.01	4.02
pH	S.U.	7.00	6.99	6.98	6.99	6.99	6.98
pH	S.U.	10.00	9.95	9.91	9.95	9.95	9.95
ORP	mV	220.0	220.0	220.0	220.0	220.0	220.2

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.0	19.8	19.7	0.02	--
Turbidity	NTU	100	98.2	100	98.8	20.0	--
Turbidity	NTU	800	793	804	796	100	--
Turbidity	NTU	<0.10	0.02	0.02	0.02	801	--

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 08/31/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.05	10.00	10.00	10.00
ORP	mV	220.0	220.0	220.0	220.0	220.0	232.0

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	21.0	19.6	20.5	0.02	19.9
Turbidity	NTU	100	101	101	102	20.0	109
Turbidity	NTU	800	813	800	806	100	804
Turbidity	NTU	<0.10	0.02	0.02	0.04	801	0.02

Date: 08/31/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 870001 (David Prouty)
DO	% saturation	100	NA*	100	100	100	100
Conductivity	us/cm	1409	NA*	1409	1413	1409	1409
pH	S.U.	4.00	NA*	4.01	4.01	4.02	4.01
pH	S.U.	7.00	NA*	6.98	6.99	6.98	6.99
pH	S.U.	10.00	NA*	9.95	9.95	9.91	9.97
ORP	mV	220.0	NA*	220.0	220.0	220.0	223.3

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	NA*	19.5	18.9	0.02	--
Turbidity	NTU	100	NA*	99.9	99.1	20.0	--
Turbidity	NTU	800	NA*	796	792	100	--
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	--

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 09/01/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.01	4.00	4.00
pH	S.U.	7.00	7.00	7.00	6.99	7.02	7.02
pH	S.U.	10.00	10.00	10.00	9.95	10.05	10.05
ORP	mV	220.0	220.0	220.0	220.0	220.0	233.9

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.4	20.3	20.7	0.02	19.8
Turbidity	NTU	100	101	100	101	20.0	103
Turbidity	NTU	800	803	801	803	100	802
Turbidity	NTU	<0.10	0.02	0.02	0.09	801	0.02

Date: 09/01/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	NA*	100	100	100	NA*
Conductivity	us/cm	1409	NA*	1409	1413	1409	NA*
pH	S.U.	4.00	NA*	4.01	4.01	4.01	NA*
pH	S.U.	7.00	NA*	6.99	6.99	6.99	NA*
pH	S.U.	10.00	NA*	10.00	9.95	9.95	NA*
ORP	mV	220.0	NA*	220.0	220.0	220.0	NA*

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	NA*	20.3	19.8	0.02	NA*
Turbidity	NTU	100	NA*	101	97.3	20.0	NA*
Turbidity	NTU	800	NA*	806	797	100	NA*
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

Client:		Georgia Power			
Project Location:		Gypsum Landfill			
Date:		8/29/2022			
Sampler:		Jake Swanson			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWC-3R	8/29/2022	09:24:00	28.05	38.35	--
GWC-5R	8/29/2022	09:32:00	29.02	42.77	--
GWA-2	8/29/2022	09:39:00	36.23	52.13	--
GWC-6R	8/29/2022	09:43:00	34.68	51.87	--
GWC-1R	8/29/2022	09:48:00	22.98	36.41	--
GWC-4R	8/29/2022	09:53:00	16.25	30.20	--
GWC-2R	8/29/2022	09:57:00	28.53	44.00	--

Groundwater Sampling Form

Updated : 8/30/2022 3:19:57 PM
-04:00

Project Number	30143608	Well ID	GWC-1R	Date	08/30/2022		
Project Location	Gypsum Landfill	Weather(°F)	Clear 85				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	26.11	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.92	Total Depth (ft-bmp)	36.41	Water Column(ft)	13.49	Gallons in Well	2.19
MP Elevation	773.27	Pump Intake (ft-bmp)	31	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:40	Well Volumes Purged	0.18	Sample ID	GWC-1R	Sampled by	David Prouty
Purge Start	12:23	Gallons Purged	0.40	Replicate/ Code No.		Color	Clear
Purge End	13:22						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:23:00	00:00	100	22.92	5.14	1506.43	0.56	6.86	23.5	152.60
12:28:00	05:00	100	23.45	5.01	1512.45	1.64	6.71	23.1	171.79
12:32:00	09:11	100	23.46	5.02	1503.04	3.26	6.62	23.1	175.24
12:33:00	10:01	100	23.46	5.02	1504.20	2.46	6.61	23.1	178.49
12:38:00	15:01	100	23.46	5.07	1512.76	3.32	6.55	23.3	180.25

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 7:53:57 PM
-04:00

Project Number	30052922	Well ID	GWC-3R	Date	08/30/2022		
Project Location	Gypsum Landfill		Weather(°F)	88.2 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	28.05	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.03	Total Depth (ft-bmp)	38.35	Water Column(ft)	10.32	Gallons in Well	1.68
MP Elevation	775.25	Pump Intake (ft-bmp)	33	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:35	Well Volumes Purged	1.32	Sample ID	GWC-3R	Sampled by	Jake Swanson
Purge Start	14:32	Gallons Purged	2.22	Replicate/ Code No.	G-FB-1 and G-EB-1	Color	Clear
Purge End	15:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:32:00	00:00	150	28.03	5.94	217.75	3.89	7.17	34.6	177.44
14:37:00	05:00	150	28.33	4.73	169.95	3.33	7.53	24.9	217.79
14:42:00	10:00	150	28.35	4.85	153.73	5.34	7.67	23.4	210.00
14:47:00	15:00	150	28.36	4.90	136.51	5.11	7.79	23.2	212.33
14:52:00	20:00	150	28.37	4.93	149.93	4.79	7.76	23.2	209.93
14:57:00	25:00	150	28.4	4.97	133.52	3.57	7.72	23.2	214.12
15:02:00	30:00	150	28.4	4.97	164.22	2.71	7.69	23.2	217.23
15:03:00	30:59	150	28.4	4.97	137.51	2.71	7.69	23.3	218.22
15:08:00	35:59	150	28.41	4.95	141.58	2.73	7.70	23.2	223.23
15:13:00	40:59	150	28.43	4.91	164.70	2.68	7.71	23.2	226.64
15:18:00	45:59	150	28.43	4.88	137.08	2.95	7.73	23.1	231.47
15:23:00	50:59	150	28.43	4.86	134.40	2.42	7.77	23.0	235.48
15:28:00	55:59	150	28.43	4.85	130.56	2.66	7.79	23.0	237.45

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

Groundwater Sampling Form

Updated : 8/30/2022 7:53:58 PM
-04:00

Project Number	30052922	Well ID	GWC-5R	Date	08/30/2022		
Project Location	Gypsum Landfill		Weather(°F)	72.0 degrees F and Fog. The wind is blowing E/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	32.47	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	29.02	Total Depth (ft-bmp)	42.77	Water Column(ft)	13.75	Gallons in Well	2.23
MP Elevation	782.45	Pump Intake (ft-bmp)	37	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:40	Well Volumes Purged	1.10	Sample ID	GWC-5R	Sampled by	Jake Swanson
Purge Start	11:02	Gallons Purged	2.46	Replicate/ Code No.		Color	Clear
Purge End	12:34						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:02:00	00:00	100	29.02	5.46	1699.73	0.02	8.43	24.9	209.63
11:07:00	05:00	100	29.6	4.77	1834.77	10.21	8.04	21.7	229.32
11:12:00	10:00	100	29.65	4.72	1854.58	9.87	8.06	21.4	237.34
11:17:00	15:00	100	29.71	4.72	1862.81	9.14	8.08	21.4	239.93
11:22:00	20:00	100	29.74	4.74	1854.92	8.88	8.07	21.7	240.09
11:27:00	25:00	100	29.79	4.76	1838.07	9.35	8.05	21.5	240.64
11:30:00	27:58	100	29.79	4.76	1838.38	9.35	8.08	21.3	241.13
11:35:00	32:58	100	29.82	4.77	1824.87	9.12	8.08	21.2	239.88
11:40:00	37:58	100	29.83	4.77	1815.17	8.51	8.09	21.6	234.85
11:45:00	42:58	100	29.83	4.79	1797.53	8.73	8.06	22.3	228.33
11:50:00	47:58	100	29.83	4.81	1775.25	8.49	8.00	22.4	231.40
11:55:00	52:58	100	29.87	4.82	1764.54	7.85	7.99	22.7	229.70
12:00:00	57:58	100	29.87	4.83	1757.87	9.27	7.97	22.8	232.00
12:05:00	02:58	100	29.88	4.83	1747.05	7.65	8.02	22.7	231.95
12:10:00	07:58	100	29.88	4.85	1736.66	6.32	7.95	22.9	233.76
12:15:00	12:58	100	29.88	4.85	1728.92	5.89	7.94	23.0	234.41
12:20:00	17:58	100	29.83	4.86	1720.38	5.68	7.90	23.2	234.84
12:25:00	22:58	100	29.86	4.86	1709.21	3.10	7.89	23.3	235.52
12:30:00	27:58	100	29.83	4.86	1700.45	4.76	7.89	23.2	236.28
12:35:00	32:58	100	29.83	4.86	1692.23	4.71	7.86	23.3	236.64

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None

Groundwater Sampling Form

Updated : 8/30/2022 8:05:34 PM
-04:00

Project Number	30143608	Well ID	GWC-4R	Date	08/30/2022		
Project Location	Gypsum Landfill	Weather(°F)	Partly cloudy 88				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.9	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.16	Total Depth (ft-bmp)	30.2	Water Column(ft)	14.04	Gallons in Well	2.28
MP Elevation	757.48	Pump Intake (ft-bmp)	25	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:40	Well Volumes Purged	0.23	Sample ID	GWC-4R	Sampled by	David Prouty
Purge Start	15:10	Gallons Purged	0.53	Replicate/ Code No.	GLF-DUP-1	Color	Clear
Purge End	18:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:10:00	00:00	100	16.28	5.52	1095.99	3.30	0.19	23.4	137.93
15:15:00	05:00	100	16.41	5.49	1065.85	2.91	0.19	23.7	137.68
15:20:00	10:00	100	16.44	5.49	1024.91	1.31	0.25	24.1	138.40
15:25:00	15:00	100	16.44	5.49	1000.61	1.15	0.33	24.5	136.44
15:30:00	20:00	100	16.45	5.52	1001.99	1.89	0.43	24.3	133.11

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 8:05:35 PM
-04:00

Project Number	30143608	Well ID	GWC-6R	Date	08/30/2022		
Project Location	Gypsum Landfill	Weather(°F)	Cloudy 70				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	41.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	34.68	Total Depth (ft-bmp)	51.87	Water Column(ft)	17.19	Gallons in Well	2.79
MP Elevation	788.98	Pump Intake (ft-bmp)	46	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:10	Well Volumes Purged	0.30	Sample ID	GWC-6R	Sampled by	David Prouty
Purge Start	10:41	Gallons Purged	0.83	Replicate/ Code No.		Color	Clear
Purge End	11:48						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:41:00	00:00	125	35.04	6.10	655.72	1.04	7.50	20.4	120.17
10:46:00	05:00	125	35.06	5.76	450.34	0.02	5.04	19.5	131.99
10:51:00	10:00	125	35.07	5.73	440.65	0.02	4.95	19.2	135.25
10:56:00	15:00	125	35.07	5.75	441.56	0.04	4.80	19.4	138.86
11:01:00	20:00	125	35.08	5.80	446.24	0.03	4.73	19.3	141.73
11:06:00	25:00	125	35.08	5.82	450.77	0.07	4.70	19.2	142.97

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 8/31/2022 11:55:50 AM -04:00

Project Number	30143608	Well ID	GWC-2R	Date	08/31/2022		
Project Location	Gypsum Landfill		Weather(°F)	71.4 degrees F and Cloudy. The wind is blowing N/NE at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	33.7	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.55	Total Depth (ft-bmp)	44	Water Column(ft)	15.45	Gallons in Well	2.51
MP Elevation	769.76	Pump Intake (ft-bmp)	39	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:25	Well Volumes Purged	0.21	Sample ID	GWC-2R	Sampled by	David Prouty
Purge Start	08:57	Gallons Purged	0.53	Replicate/ Code No.		Color	Clear
Purge End	09:58						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:57:00	00:00	100	28.7	5.29	631.19	1.16	5.12	20.3	151.25
09:02:00	05:00	100	28.7	5.24	637.22	0.95	5.26	20.2	145.48
09:07:00	10:00	100	28.7	5.22	646.17	1.06	5.28	20.2	140.59
09:12:00	15:00	100	28.7	5.24	638.93	0.53	5.19	20.1	139.18
09:17:00	20:00	100	28.7	5.23	643.39	1.70	5.22	20.1	140.13

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-3R					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:24:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWA-2					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:39:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-5R					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:32:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
Vegetation needs to be cut					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-6R					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:43:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-2R					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:57:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-4R					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:53:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-1R					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:48:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Upgradient Wells

August 2022

Groundwater Sampling Form



Updated : 8/31/2022 7:46:53 PM
-04:00

Project Number	30053438	Well ID	YGWA-4I	Date	08/31/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	80 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.95	Total Depth (ft-bmp)	48.81	Water Column(ft)	24.86	Gallons in Well	4.04
MP Elevation	784.21	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:37	Well Volumes Purged	0.39	Sample ID	YGWA-4I	Sampled by	Jessica Ware
Purge Start	14:54	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	16:09						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:54:00	00:00	150	23.95	7.44	130.83	1.30	7.32	22.7	171.68
14:59:00	05:00	150	24.59	5.76	135.49	0.75	6.11	21.8	192.79
15:04:00	10:00	150	24.56	5.61	146.32	0.40	4.64	21.7	192.23
15:09:00	15:00	150	24.58	5.60	148.00	0.18	3.90	21.0	194.40
15:14:00	20:00	150	24.61	5.58	145.41	0.18	4.00	20.7	205.39
15:19:00	25:00	150	24.61	5.59	146.24	0.10	5.83	20.4	210.12
15:24:00	30:00	150	24.59	5.54	146.21	0.39	2.02	19.6	202.49
15:29:00	35:00	150	24.63	5.50	146.96	0.27	1.95	19.7	205.75
15:34:00	40:00	150	24.64	5.50	146.94	0.22	1.95	19.6	207.02

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 8/30/2022 11:20:20 AM -04:00

Project Number	30053438	Well ID	YGWA-5I	Date	08/30/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	72.9 degrees F and Fog/Mist. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	20.65	Total Depth (ft-bmp)	58.94	Water Column(ft)	38.29	Gallons in Well	6.22
MP Elevation	784.54	Pump Intake (ft-bmp)	53	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:52	Well Volumes Purged	0.26	Sample ID	YGWA-5I	Sampled by	Mark Chest
Purge Start	10:19	Gallons Purged	1.60	Replicate/ Code No.		Color	Clear
Purge End	10:49						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:19:00	00:00	200	20.65	5.66	85.76		6.54	18.0	201.34
10:19:00	00:20	200	20.65	5.36	82.81		6.50	17.4	210.79
10:24:00	05:20	200	21.65	4.90	82.41	0.55	6.13	17.1	232.62
10:29:00	10:20	200	21.66	4.75	81.15	0.92	6.12	17.1	243.71
10:34:00	15:20	200	21.65	4.82	82.39	1.03	6.19	17.2	240.12
10:39:00	20:20	200	21.65	5.05	82.15	1.72	6.16	17.3	233.32
10:44:00	25:20	200	21.67	5.01	82.90	0.43	6.17	17.4	238.95
10:49:00	30:20	200	21.67	5.00	82.09	0.41	6.17	17.4	240.28

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	1L Plastic	1	None
Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA _____ Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 8/30/2022 3:01:48 PM
-04:00

Project Number	30053438	Well ID	YGWA-5D	Date	08/30/2022
Project Location	AMA AP-3, A, B and B'		Weather(°F)	74.5 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2
Static Water Level (ft-bmp)	21.96	Total Depth (ft-bmp)	129.13	Water Column(ft)	107.17
MP Elevation	784.53	Pump Intake (ft-bmp)	124	Purge Method	Low-Flow
Sample Time	12:05	Well Volumes Purged	0.12	Sample ID	YGWA-5D
Purge Start	11:25	Gallons Purged	2.14	Replicate/ Code No.	
Purge End	12:00			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:25:00	00:00	200	21.96	6.77	198.80		4.08	20.0	184.74
11:26:00	00:17	200	21.96	6.80	198.26		2.67	19.2	34.77
11:31:00	05:17	200	22.99	7.46	223.19	0.02	0.14	17.9	-206.55
11:36:00	10:17	200	22.95	7.40	211.77	0.03	0.18	18.0	-225.81
11:41:00	15:17	200	22.95	7.36	208.20	0.02	0.20	18.3	-227.48
11:41:00	15:28	200	22.95	7.41	208.28	0.02	0.20	18.3	-229.94
11:46:00	20:28	200	22.95	7.40	206.51	0.02	0.21	18.0	-223.33
11:51:00	25:28	200	22.95	7.40	206.23	0.02	0.17	18.2	-220.02
11:56:00	30:28	200	22.95	7.40	205.72	0.02	0.19	18.2	-214.34
12:01:00	35:28	200	22.95	7.40	205.32	0.02	0.18	18.3	-211.56
12:06:00	40:28	200	22.95	7.40	205.22	0.02	0.19	18.3	-210.48

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/1/2022 10:02:42 PM
-04:00

Project Number	30053438	Well ID	YGWA-17S	Date	08/30/2022
Project Location	AMA AP-3, A, B and B'		Weather(°F)	32 °C, Overcast, winds at mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65	Casing Diameter (in)	2
Static Water Level (ft-bmp)	13.33	Total Depth (ft-bmp)	39.85	Water Column(ft)	26.52
MP Elevation	783.05	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow
Sample Time	15:40	Well Volumes Purged	0.31	Sample ID	YGWA-17S
Purge Start	15:11	Gallons Purged	1.32	Replicate/ Code No.	
Purge End	16:01			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:11:00	00:00	200	13.33	5.18	92.71		2.71	22.6	198.73
15:16:00	05:00	200	13.58	4.89	91.82	1.08	1.61	21.5	209.01
15:21:00	10:00	200	13.59	4.81	91.68	0.91	1.50	21.0	214.69
15:26:00	15:00	200	13.62	4.73	91.72	0.99	1.53	20.9	222.92
15:31:00	20:00	200	13.61	4.70	91.70	1.51	1.49	20.6	225.77
15:36:00	25:00	200	13.62	4.68	91.28	1.47	1.48	20.5	228.01

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/1/2022 10:02:47 PM
-04:00

Project Number	30053438	Well ID	YGWA-18S	Date	08/30/2022
Project Location	AMA AP-3, A, B and B'		Weather(°F)	74 °F, Overcast, winds at mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97	Casing Diameter (in)	2
Static Water Level (ft-bmp)	21.48	Total Depth (ft-bmp)	39.97	Water Column(ft)	18.49
MP Elevation	790.57	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow
Sample Time	10:10	Well Volumes Purged	0.40	Sample ID	YGWA-18S
Purge Start	09:37	Gallons Purged	1.19	Replicate/ Code No.	
Purge End	10:39			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (in)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:37:00	00:00	150	21.92	6.54	65.89	0.81	8.20	22.5	152.66
09:42:00	05:00	150		5.35	51.04		2.93	19.9	196.80
09:47:00	10:00	150	21.9	5.27	50.58	0.77	2.35	19.7	205.05
09:52:00	15:00	150	21.93	5.22	49.98	0.24	2.38	19.1	210.39
09:57:00	20:00	150	21.98	5.18	49.93	0.29	1.98	19.0	215.27
10:02:00	25:00	150	21.9	5.19	49.89	0.35	1.89	19.7	215.28
10:07:00	30:00	150	21.94	5.18	49.48	0.20	1.92	19.0	217.25

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Metals	250mL HDPE Plastic	1	HNO3

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 8/31/2022 1:51:50 PM
-04:00

Project Number	30053438	Well ID	YGWA-20S	Date	08/31/2022
Project Location	AMA AP-3, A, B and B'		Weather(°F)	80 °F, , winds at mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22	Casing Diameter (in)	2
Static Water Level (ft-bmp)	11.57	Total Depth (ft-bmp)	29.52	Water Column(ft)	17.95
MP Elevation	767.12	Pump Intake (ft-bmp)	24.5	Purge Method	Low-Flow
Sample Time	12:57	Well Volumes Purged	0.34	Sample ID	YGWA-20S
Purge Start	12:23	Gallons Purged	0.99	Replicate/ Code No.	
Purge End	13:35			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:23:00	00:00	200	11.57	6.60	54.41	1.83	8.33	23.1	121.75
12:28:00	05:00	150	12.04	5.59	54.42	9.46	8.08	19.9	199.47
12:33:00	10:00	100	11.91	5.51	54.40	8.03	7.92	21.0	210.37
12:38:00	15:00	100	11.82	5.45	54.47	7.33	7.85	21.2	216.56
12:43:00	20:00	100	11.8	5.37	54.27	4.86	7.77	21.2	224.01
12:48:00	25:00	100	11.78	5.38	54.31	2.98	7.66	21.6	223.86
12:53:00	30:00	100	11.73	5.38	54.63	2.35	7.56	22.7	225.51

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 8/31/2022 2:06:34 PM
-04:00

Project Number	30053438	Well ID	YGWA-211	Date	08/30/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	84.2 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	32.12	Total Depth (ft-bmp)	79.9	Water Column(ft)	47.78	Gallons in Well	7.76
MP Elevation	783.7	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:30	Well Volumes Purged	0.31	Sample ID	YGWA-211	Sampled by	Mark Chest
Purge Start	13:52	Gallons Purged	2.38	Replicate/ Code No.		Color	Clear
Purge End	14:27						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:52:00	00:00	300	32.12	7.45	175.48		7.87	32.5	157.78
13:57:00	05:00	250	35.55	7.08	197.65	2.22	0.28	21.0	-101.65
14:02:00	10:00	250	36	6.90	177.38	0.36	0.15	24.2	-98.85
14:07:00	15:00	250	36.12	6.82	170.35	0.02	0.16	22.1	-92.98
14:12:00	20:00	250	36.19	6.72	166.61	0.03	0.13	22.2	-92.82
14:17:00	25:00	250	36.27	6.64	161.22	0.02	0.12	22.3	-92.13
14:22:00	30:00	250	36.34	6.59	157.87	0.02	0.13	22.8	-91.59
14:27:00	35:00	250	36.41	6.58	155.91	0.00	0.13	23.4	-91.50

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F, Cl, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
Condition of Well: _____ Well Locked at Departure: _____
Well Completion: NA _____ Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 8/31/2022 2:06:35 PM
-04:00

Project Number	30053438	Well ID	YGWA-39	Date	08/31/2022		
Project Location	AMA R6 CCR Landfill		Weather(°F)	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	17.6	Total Depth (ft-bmp)	68.59	Water Column(ft)	50.99	Gallons in Well	8.29
MP Elevation	818.19	Pump Intake (ft-bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:50	Well Volumes Purged	0.25	Sample ID	YGWA-39	Sampled by	Mark Chest
Purge Start	13:06	Gallons Purged	2.11	Replicate/ Code No.		Color	Clear
Purge End	13:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:06:00	00:00	200	17.6	7.01	352.92		2.46	22.9	24.34
13:11:00	05:00	200	18.25	5.84	383.57	1.89	0.09	19.6	85.04
13:16:00	10:00	200	18.34	5.77	376.89	0.65	0.05	19.5	94.91
13:21:00	15:00	200	18.37	5.67	371.48	0.43	0.04	19.4	106.56
13:26:00	20:00	200	18.39	5.54	366.27	0.02	0.04	19.4	119.01
13:31:00	25:00	200	18.44	5.44	361.38	0.02	0.04	19.4	127.52
13:36:00	30:00	200	18.39	5.37	363.20	0.36	0.04	19.2	133.20
13:41:00	35:00	200	18.4	5.33	359.98	0.02	0.05	19.3	137.26
13:46:00	40:00	200	18.41	5.30	364.75	1.09	0.04	19.3	139.19

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F,Cl,SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/2/2022 10:29:15 AM
-04:00

Project Number	30053438	Well ID	YGWA-40	Date	08/31/2022		
Project Location	AMA R6 CCR Landfill		Weather(°F)	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.55	Total Depth (ft-bmp)	48.23	Water Column(ft)	24.68	Gallons in Well	4.01
MP Elevation	815.73	Pump Intake (ft-bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:40	Well Volumes Purged	0.40	Sample ID	YGWA-40	Sampled by	Mark Chest
Purge Start	16:06	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	16:36						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:06:00	00:00	200		5.03	105.09		0.11	17.9	197.89
16:11:00	05:00	200	25.8	4.91	100.87	0.02	0.10	18.0	234.91
16:16:00	10:00	200	25.85	4.79	98.98	0.05	0.47	18.0	259.26
16:21:00	15:00	200	25.85	4.66	100.66	0.02	0.39	17.9	280.04
16:26:00	20:00	200	25.85	4.59	98.38	0.02	0.29	17.9	293.98
16:31:00	25:00	200	25.85	4.57	94.16	0.03	0.26	17.9	302.46
16:36:00	30:00	200	25.85	4.53	94.04	0.05	0.22	17.8	311.98

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F, CL, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/31/2022 10:19:04 AM -04:00

Project Number	30053438	Well ID	YGWA-11	Date	08/31/2022		
Project Location	AP-2	Weather(°F)	71.1 degrees F and Cloudy. The wind is blowing N at 5.8 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	43.3	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	37.23	Total Depth (ft-bmp)	53.6	Water Column(ft)	16.37	Gallons in Well	2.66
MP Elevation	836.6	Pump Intake (ft-bmp)	49	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:10	Well Volumes Purged	0.48	Sample ID	YGWA-11	Sampled by	Khalil Carson
Purge Start	08:22	Gallons Purged	1.27	Replicate/ Code No.		Color	Clear
Purge End	10:17						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:22:00	00:00	150	37.23	5.68	89.49		6.59	22.6	186.55
08:27:00	05:00	150	38.18	5.65	86.30	0.53	5.29	20.0	141.15
08:28:00	05:29	100	37.23	5.61	88.39	0.53	5.02	19.9	139.26
08:33:00	10:29	100	38.22	5.74	88.86	0.94	4.68	20.5	112.33
08:38:00	15:29	100	38.27	5.66	84.27	0.61	4.82	20.7	110.40
08:43:00	20:29	100	38.32	5.49	78.81	0.11	4.94	20.7	121.58
08:48:00	25:29	100	38.36	5.63	77.52	0.27	5.14	20.7	118.66
08:53:00	30:29	100	38.4	5.56	76.06	0.33	5.28	20.6	125.51
08:58:00	35:29	100	38.45	5.70	75.25	0.41	5.38	20.7	120.61
09:03:00	40:29	100	38.49	5.67	74.70	0.27	5.34	20.7	124.88
09:08:00	45:29	100	38.49	5.64	74.31	0.69	5.46	20.8	129.78

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
C,F,SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments: -

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 9/8/2022 4:54:30 PM - 04:00

Project Number	30053438	Well ID	YGWA-1D	Date	08/30/2022		
Project Location	AP-2	Weather(°F)	75.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.05	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	49.39	Total Depth (ft-bmp)	128.85	Water Column(ft)	79.46	Gallons in Well	12.91
MP Elevation	837.25	Pump Intake (ft-bmp)	108	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:50	Well Volumes Purged	0.12	Sample ID	YGWA-1D	Sampled by	Khalil Carson
Purge Start	13:15	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	14:30						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:15:00	00:00	200	145.6365	7.19	165.81		3.53	37.3	101.43
13:15:00	00:29	200	49.43	7.19	164.03		3.51	37.5	101.95
13:20:00	05:29	200	49.47	7.25	157.05	1.75	2.20	31.1	35.74
13:24:00	09:31	200	49.45	7.10	157.61	1.66	1.52	27.9	31.13
13:29:00	14:31	200	49.45	6.88	159.90	0.02	1.11	26.8	3.74
13:32:00	16:49	200	49.45	7.04	162.63		1.09	25.6	-16.24
13:37:00	21:49	200	49.45	7.11	163.02	1.71	0.98	25.2	-43.61
13:42:00	26:49	200	49.45	7.18	163.35	1.04	0.84	24.6	-59.45
13:47:00	31:49	200	49.45	7.20	161.94	0.66	0.78	24.4	-67.58

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl,F,SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments: -

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 7:27:49 PM -

Project Number	30053438	Well ID	YGWA-2I	Date	08/30/2022
Project Location	AP-2	Weather(°F)	Cloudy temp 77		
Measuring Pt. Description	Top of Outer Casing	Screen Setting (ft-bmp)	53.45	Casing Diameter (in)	2
Static Water Level (ft-bmp)	44.5	Total Depth (ft-bmp)	63.75	Water Column(ft)	19.25
MP Elevation	866.25	Pump Intake (ft-bmp)	60	Purge Method	Low-Flow
Sample Time	10:00	Well Volumes Purged	0.30	Sample ID	YGWA-2I
Purge Start	09:24	Gallons Purged	0.92	Replicate/ Code No.	
Purge End	11:43			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:24	00:00	200	44.5	7.10	173.92		8.48	23.4	178.94
9:29	05:00	200	45.65	6.83	180.62	2.33	4.00	20.9	-40.08
9:34	10:00	150	46.00	6.94	189.14	1.05	1.60	20.5	-72.2
9:39	15:00	50	46.38	7.01	189.31	0.41	1.13	21.3	-82.9
9:44	20:00	50	46.63	7.04	188.53	0.77	1.11	21.9	-89.1
9:49	25:00:00	50	46.71	7.05	186.33	1.76	1.04	22.4	-90.7
9:54	30:00:00	50	46.81	7.04	184.05	0.53	1.04	22.7	-87.2

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	HNO3

Comments: -

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 8/31/2022 1:51:49 PM
-04:00

Project Number	30053438	Well ID	YGWA-3I	Date	08/31/2022		
Project Location	AP-2	Weather(°F)	78 °F, Sunny, winds at mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.85	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	53.22	Total Depth (ft-bmp)	59.05	Water Column(ft)	5.83	Gallons in Well	0.95
MP Elevation	796.55	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:54	Well Volumes Purged	2.05	Sample ID	YGWA-3I	Sampled by	Jessica Ware
Purge Start	10:02	Gallons Purged	1.95	Replicate/ Code No.		Color	Clear
Purge End	11:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:02:00	00:00	200	53.22	7.57	210.69	0.30	8.69	19.1	125.05
10:07:00	05:00	200	53.62	7.40	274.64	0.48	4.45	19.6	130.45
10:12:00	10:00	200	53.7	7.36	291.19	1.91	1.99	18.8	71.97
10:17:00	15:00	125	53.52	7.41	291.02	1.24	2.03	21.7	29.04
10:22:00	20:00	125	53.48	7.43	285.82	0.53	1.94	22.0	6.67
10:27:00	25:00	125	53.46	7.45	272.37	1.02	1.67	21.8	-19.80
10:32:00	30:00	125	53.44	7.46	258.51	0.67	1.44	22.1	-34.15
10:37:00	35:00	125	53.45	7.47	245.50	0.48	1.20	21.8	-44.37
10:42:00	40:00	125	53.46	7.47	235.31	0.27	1.05	21.8	-51.67
10:47:00	45:00	125	53.46	7.48	230.69	0.53	1.03	21.8	-54.62
10:52:00	50:00	125	53.47	7.49	228.11	0.40	1.08	21.9	-55.58

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 9/1/2022 10:02:45 PM
-04:00

Project Number	30053438	Well ID	YGWA-3D	Date	08/31/2022
Project Location	AP-2	Weather(°F)	32 °F, , winds at mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	83.88	Casing Diameter (in)	2
Static Water Level (ft-bmp)	30.3	Total Depth (ft-bmp)	134.18	Water Column(ft)	103.88
MP Elevation	796.78	Pump Intake (ft-bmp)	113	Purge Method	Low-Flow
Sample Time	09:30	Well Volumes Purged	0.07	Sample ID	YGWA-3D
Purge Start	08:57	Gallons Purged	1.19	Replicate/ Code No.	
Purge End	10:01			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:57:00	00:00	150	30.3	7.68	227.11		8.62	22.6	193.29
09:02:00	05:00	150	30.33	6.91	222.28	0.69	2.37	20.4	10.36
09:07:00	10:00	150	30.34	7.16	223.33	0.83	1.07	20.0	-40.45
09:12:00	15:00	150	30.32	7.45	222.32	0.60	0.70	19.5	-59.28
09:17:00	20:00	150	30.35	7.57	222.71	0.28	0.63	19.2	-73.91
09:22:00	25:00	150	30.36	7.62	222.83	0.02	0.62	19.4	-89.84
09:27:00	30:00	150	30.33	7.65	222.81	0.13	0.54	19.5	-102.82

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/1/2022 3:43:23 PM - 04:00

Project Number	30053438	Well ID	YGWA-14S	Date	08/31/2022		
Project Location	AP-2	Weather(°F)	83.7 degrees F and Clear. The wind is blowing N at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	24.66	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	20.24	Total Depth (ft-bmp)	34.96	Water Column(ft)	14.72	Gallons in Well	2.39
MP Elevation	748.76	Pump Intake (ft-bmp)	30	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:15	Well Volumes Purged	1.03	Sample ID	YGWA-14S	Sampled by	Khalil Carson
Purge Start	13:10	Gallons Purged	2.47	Replicate/ Code No.		Color	Clear
Purge End	15:07						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:10:00	00:00	150	20.24	5.15	69.74		7.46	27.3	185.16
13:15:00	05:00	150	20.34	4.84	61.05	0.02	6.85	27.9	213.44
13:20:00	09:46	150	20.34	4.87	66.68	0.02	6.14	27.6	224.17
13:25:00	14:46	150	20.34	4.83	65.63	0.08	5.95	27.2	234.74
13:30:00	19:46	150	20.34	4.76	65.77	0.02	5.93	27.0	249.59
13:35:00	24:46	150	20.34	4.88	54.89	0.02	5.94	26.9	246.66
13:40:00	29:46	150	20.34	4.96	61.81	0.02	5.88	26.9	246.23
13:45:00	34:46	150	20.34	5.01	64.18	0.20	5.77	27.2	248.56
13:50:00	39:46	150	20.34	4.67	63.07	0.69	5.72	27.2	267.44
13:55:00	44:46	150	20.34	4.88	54.79	1.89	5.73	27.2	264.42
13:58:00	47:24	150	20.34	4.94	64.26	1.89	5.86	26.8	299.77
14:03:00	52:24	150	20.34	5.06	57.06	0.02	5.74	27.2	273.52
14:08:00	57:24	150	20.34	5.12	55.34	0.18	5.79	27.1	269.07
14:13:00	02:24	150	20.34	5.15	57.24	0.24	5.75	27.0	268.37

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl,F,SO4	250 mL Plastic	1	None

Comments: -

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Groundwater Sampling Form



Updated : 9/1/2022 3:43:22 PM - 04:00

Project Number	30053438	Well ID	YGWA-30I	Date	08/31/2022
Project Location	AP-2	Weather(°F)	Partly cloudy 81		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.18	Casing Diameter (in)	2
Static Water Level (ft-bmp)	43.86	Total Depth (ft-bmp)	59.48	Water Column(ft)	15.62
MP Elevation	762.58	Pump Intake (ft-bmp)	54.5	Purge Method	Low-Flow
Sample Time	11:30	Well Volumes Purged	0.67	Sample ID	YGWA-30I
Purge Start	10:44	Gallons Purged	1.70	Replicate/ Code No.	
Purge End	12:00			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:44:00	00:00	150	44.36	6.64	58.07		8.59	24.5	133.57
10:49:00	05:00	150	44.36	6.63	59.21	1.32	8.48	25.9	121.26
10:55:00	10:49	150	43.9	6.71	58.93	0.71	8.27	27.4	152.70
10:57:00	12:53	150	43.9	6.60	55.09	1.12	8.58	27.2	161.79
11:02:00	17:53	150	43.9	6.13	53.46	1.31	7.97	26.4	148.39
11:07:00	22:53	150	43.9	5.58	54.11	0.81	7.48	25.8	178.08
11:12:00	27:53	150	43.9	5.74	54.08	0.85	7.38	25.2	175.12
11:17:00	32:53	150	43.9	5.78	54.88	0.02	7.25	25.1	178.57
11:22:00	37:53	150	43.9	5.84	54.83	0.14	7.14	25.2	180.65
11:27:00	42:53	150	43.9	5.87	54.57	0.41	7.07	25.4	182.89

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	125 mL Plastic	1	HNO3
TDS	250 mL Plastic	1	None
C,FL,SO4	125 mL Plastic	1	None

Comments: —

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 7:53:59 PM
-04:00

Project Number	30052922	Well ID	GWA-2	Date	08/30/2022		
Project Location	Gypsum Landfill		Weather(°F)	72.0 degrees F and Fog. The wind is blowing E/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	42.1	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	36.28	Total Depth (ft-bmp)	52.13	Water Column(ft)	15.85	Gallons in Well	2.58
MP Elevation	805.62	Pump Intake (ft-bmp)	47	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:05	Well Volumes Purged	0.20	Sample ID	GWA-2	Sampled by	Jake Swanson
Purge Start	09:34	Gallons Purged	0.53	Replicate/ Code No.		Color	Clear
Purge End	09:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:34:00	00:00	100	36.28	5.79	189.14	0.77	1.60	20.5	-72.17
09:39:00	05:00	100	36.81	5.49	189.31	0.22	1.13	21.3	-82.91
09:44:00	10:00	100	36.9	5.35	188.53	0.31	1.11	21.0	-89.15
09:49:00	15:00	100	36.96	5.35	186.33	0.36	1.04	20.8	-90.65
09:54:00	20:00	100	37.03	5.39	184.04	0.43	1.04	20.8	-87.16

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: Upgradient well

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/31/2022 1:26:36 PM
-04:00

Project Number	30052922	Well ID	YGWA-47	Date	08/31/2022		
Project Location	AP-1	Weather(°F)	73 sunny				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.4	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	34.18	Total Depth (ft-bmp)	59.19	Water Column(ft)	25.01	Gallons in Well	4.06
MP Elevation	758.22	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:15	Well Volumes Purged	0.20	Sample ID	YGWA-47	Sampled by	Jake Swanson
Purge Start	08:47	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear
Purge End	09:07						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:47:00	00:00	150	34.18	6.58	151.49	2.88	7.95	22.6	181.33
08:52:00	05:00	150	34.74	5.33	132.46	3.07	3.82	19.5	191.39
08:57:00	10:00	150	34.75	5.26	129.13	0.96	3.62	19.2	193.14
09:02:00	15:00	150	34.77	5.28	129.79	0.89	3.53	19.0	188.90
09:07:00	20:00	150	34.79	5.32	135.11	0.02	3.44	19.1	185.05

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWA-2					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:39:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report



Project Location: AP-1			Yes	No	N/A
Permit Number:					
Well ID: YGWA-47					
Person Gauging: David Prouty					
Date: 8/29/2022					
Time: 10:23:00					
1 Location Identification:					
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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,	<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"/>	
4 Internal Casing					
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 type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
Cut vegetation					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-30I					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 12:49:00					
1	Location Identification:				
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"/>	
2	Protective Casing:				
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"/>	
3	Surface Pad				
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"/>	
4	Internal Casing				
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 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"/>	
5	Sampling: Groundwater Wells Only:				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-14S			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		12:39:00			
			Yes	No	N/A
1	Location Identification:				
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"/>
2	Protective Casing:				
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"/>
3	Surface Pad				
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"/>
4	Internal Casing				
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 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"/>
5	Sampling: Groundwater Wells Only:				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-211				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 09:48:00				
		Yes	No	N/A
1	Location Identification:			
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"/>
2	Protective Casing:			
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"/>
3	Surface Pad			
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"/>
4	Internal Casing			
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 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"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-39					
Person Gauging: Jessica Ware					
Date: 8/29/2022					
Time: 13:12:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-40					
Person Gauging: Jessica Ware					
Date: 8/29/2022					
Time: 12:52:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input type="checkbox"/>	<input checked="" 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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
Area overgrown, should be cleared					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-18S				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 12:17:00				
		Yes	No	N/A
1	Location Identification:			
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"/>
2	Protective Casing:			
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"/>
3	Surface Pad			
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"/>
4	Internal Casing			
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 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"/>
5	Sampling: Groundwater Wells Only:			
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-18I				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 12:14:00				
		Yes	No	N/A
1	Location Identification:			
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"/>
2	Protective Casing:			
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"/>
3	Surface Pad			
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"/>
4	Internal Casing			
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 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"/>
5	Sampling: Groundwater Wells Only:			
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-17S				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 12:06:00				
		Yes	No	N/A
1	Location Identification:			
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"/>
2	Protective Casing:			
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"/>
3	Surface Pad			
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"/>
4	Internal Casing			
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 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"/>
5	Sampling: Groundwater Wells Only:			
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-5I				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 10:22:00				
		Yes	No	N/A
1	Location Identification:			
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"/>
2	Protective Casing:			
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"/>
3	Surface Pad			
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"/>
4	Internal Casing			
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 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"/>
5	Sampling: Groundwater Wells Only:			
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-5D				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 10:11:00				
		Yes	No	N/A
1	Location Identification:			
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"/>
2	Protective Casing:			
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"/>
3	Surface Pad			
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"/>
4	Internal Casing			
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 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"/>
5	Sampling: Groundwater Wells Only:			
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-20S					
Person Gauging: Jessica Ware					
Date: 8/29/2022					
Time: 09:51:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-4I				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 09:55:00				
		Yes	No	N/A
1	Location Identification:			
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"/>
2	Protective Casing:			
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"/>
3	Surface Pad			
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"/>
4	Internal Casing			
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 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"/>
5	Sampling: Groundwater Wells Only:			
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:			
	No vehicle access, down trees			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-11			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:32:00			
			Yes	No	N/A
1	Location Identification:				
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"/>
2	Protective Casing:				
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"/>
3	Surface Pad				
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"/>
4	Internal Casing				
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 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"/>
5	Sampling: Groundwater Wells Only:				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-1D			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:25:00			
			Yes	No	N/A
1	Location Identification:				
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"/>
2	Protective Casing:				
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"/>
3	Surface Pad				
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"/>
4	Internal Casing				
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 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"/>
5	Sampling: Groundwater Wells Only:				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-2I					
Person Gauging: Jessica Ware					
Date: 8/29/2022					
Time: 11:36:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-3I					
Person Gauging: Jessica Ware					
Date: 8/29/2022					
Time: 11:06:00					
1 Location Identification:					
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"/>	
2 Protective Casing:					
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"/>	
3 Surface Pad					
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"/>	
4 Internal Casing					
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 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"/>	
5 Sampling: Groundwater Wells Only:					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-3D			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:08:00			
			Yes	No	N/A
1	Location Identification:				
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"/>
2	Protective Casing:				
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"/>
3	Surface Pad				
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"/>
4	Internal Casing				
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 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"/>
5	Sampling: Groundwater Wells Only:				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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:				
8	Date by when corrective actions are needed:				

Appendix C

Statistical Analysis Results

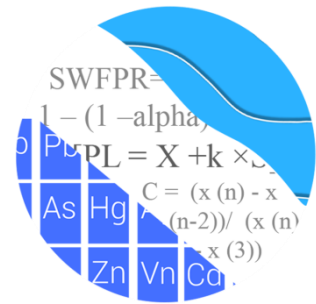
Appendix III Statistically Significant Increase Summary (August 2022)

Appendix III Parameter	Monitoring Wells
Boron	GWC-2R, GWC-4R
Calcium	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R
Chloride	GWC-2R, GWC-4R
Sulfate	GWC-1R, GWC-2R, GWC-5R, TWC-6R
Total Dissolved Solids	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

GROUNDWATER STATS CONSULTING

February 28, 2023

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374



Re: Plant Yates CCR Landfill Gypsum Stack
August 2022 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Landfill Gypsum Stack. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) 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 for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

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

- **Upgradient wells:**
 - **AP-1:** YGWA-47
 - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I

- **Gypsum Landfill:** GWA-2
- **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Note that in addition to the wells listed above, upgradient well GWA-1, which has not been sampled since 2004, provides historical information about upgradient groundwater quality for the majority of Georgia EPD constituents. GWA-1 is included on the time series graphs and box plots as reference data, but no formal statistics for this well are included in this report.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The analysis was prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The CCR and Georgia EPD programs consist of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **CCR Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lithium, lead, mercury, molybdenum, selenium, and thallium
- **Georgia EPD Appendix I & II:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of all well/constituent pairs containing 100% non-detects for Appendix I and II parameters, and downgradient wells containing 100% non-detects for Appendix IV parameters follow this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct interwell prediction limits and upper tolerance limits for Appendix III and IV parameters, respectively.

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 time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. In order to account for varying reporting limits upgradient of the facility and maintain interwell upper tolerance limits that are conservative (i.e., lower) from a regulatory perspective, the most recent reporting limit of 0.0005 mg/L was substituted for beryllium. For intrawell prediction limits, the most recent reporting limit for a given well/constituent will be substituted for any non-detect values. Regarding the cases of cobalt and zinc, due to varying detection limits in individual wells, the most recent reporting limits of 0.005 mg/L and 0.01 mg/L, were respectfully substituted across all wells for all calculations and reports.

During previous screenings, 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 in the previous screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

Georgia EPD Appendix I & II Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 15 (Silver is either 100% non-detect or does not have any trace values close to the reporting limit in all downgradient wells)
- # Downgradient wells: 6

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (fluoride and pH)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, calcium, chloride, sulfate, and TDS)
- # Constituents: 7
- # Downgradient wells: 6

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals, as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with 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 following approaches are used for handling non-detects (USEPA, 2009).

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

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

Summary of Original Background Screenings – State and Federal

Georgia EPD Appendix I & II Constituents – Conducted in August 2019

Outlier Screening

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

Using the Tukey box plot method, one outlier was identified. Although there were no cases of this present in the datasets, when the most recent value is identified as an outlier, values are not flagged in the database at this time 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.

Tukey's test method did not identify outliers for the highest measurements of zinc in wells GWA-2, GWC-3R and GWC-4R; however, these values were flagged in the database so that resulting statistical limits will be lower and more conservative, i.e., sensitive to changes in concentrations. A list of all flagged outliers is presented in the Outlier Summary (Figure C).

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

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

Trend Testing

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

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

Statistically significant decreasing trends were noted for a few constituents, and one statistically significant increasing trend was identified for barium in well GWC-6R. The data sets were still relatively small, and the magnitudes of these trends were low relative to the average concentrations. Therefore, no adjustments were required to any of the records except for barium in wells GWC-4R and GWC-5R. Earlier measurements for barium in these wells were considerably higher than currently reported measurements. In order to construct prediction limits that are lower and more conservative from a regulatory perspective, only the more recent portion of these records were used for the statistical limits. All background data are re-evaluated during subsequent background updates.

CCR Appendix III Constituents – Conducted in April 2019

Outlier Screening

Data from each well/constituent pair were evaluated for outliers using the Tukey box plot method. A summary of those findings was submitted with the report. When any values

are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well.

Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were required.

Trend Testing

The results of the trend analyses were included in the previous screening and showed a few statistically significant decreasing trends. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short in 2019; therefore, no adjustments were made to the data sets. However, when decreasing trends persist over a longer period for parameters evaluated using intrawell methods at all wells or for parameters evaluated using interwell methods in upgradient wells, historical measurements may require deselection in order to maintain conservative (i.e., lower) limits.

Summary of Background Updates – State and Federal

Georgia EPD Appendix I & II and CCR Appendix III – March 2022

Outlier Analysis

Prior to updating background data, visual screening and Tukey's outlier test was used to evaluate data for suspected outliers in upgradient and downgradient wells through August 2021 for constituents tested using intrawell prediction limits and in pooled upgradient well data for constituents tested using interwell prediction and tolerance limits.

All of the more recent compliance measurements appeared stable with no spurious measurements compared to the previously screened historical data sets; therefore, no new outliers were flagged except for the most recent high reported measurements of cobalt in upgradient well GWA-2. These values were flagged in order to maintain conservative (i.e., lower) statistical limits. A summary of all flagged outliers follows this letter (Figure C).

Mann-Whitney Comparison of Medians

For constituents tested using intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through October 2018 for state constituents and through February 2019 for federal constituents to new compliance samples at each well through August 2021. When the medians of the two groups are not statistically significantly different at the 99% confidence level, background data sets are updated to include the newer compliance data.

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, background data sets are not updated unless further research provides reasonable justification that the changes in concentrations reflect a naturally occurring shift unrelated to practices at the site. In studies such as the current one, 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.

All records with statistically significant Mann-Whitney results for upgradient and downgradient wells were updated. Similar shifts were noted in downgradient water quality conditions compared to those observed upgradient of the facility, such as in the case of the statistically significant increasing medians identified for zinc in upgradient well GWA-2R and downgradient well GWC-5R. Previously truncated records for barium at downgradient wells GWC-4R and GWC-5R were also updated with more recent data through 8/18/2021.

The statistically significant decreases identified in medians were either due to more recent reported trace values compared to previously reported nondetects, or variation in the records with lower compliance medians. Additionally, the compliance medians for well/constituent pairs containing variation in the record were lower than historical medians but similar to historical concentrations. Since the statistically significant decreases in medians between historical and compliance data sets signify lower concentrations and, generally, more conservative (i.e., lower) statistical limits, these cases were updated with more recent data.

In the case of pH at wells GWC-2R and GWC-5R, while more recent reported measurements were slightly lower than those reported historically, the measurements are similar to those reported in upgradient wells across all units (as may be seen on the time series graphs). Therefore, these records were also updated. Summaries of the Mann-Whitney test results for the state and federal parameters were included with the background update.

Trend Tests

For constituents requiring interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), the Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data through August 2022 at all upgradient wells.

Several statistically significant increasing and decreasing trends were noted. However, since these are upgradient wells, the trends are likely the result of natural variation, and the patterns observed in these wells could reappear later in downgradient wells. Therefore, none of the records were adjusted.

Statistical Analysis of August 2022 Samples

Georgia EPD Appendix I & II Constituents – August 2022

Intrawell Prediction Limits

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 August 2021, except for the cases mentioned above and listed in the background date range table (Figure D). Additionally, no statistical analyses were included for well/constituent pairs containing 100% non-detects.

Note that during this sample event, the reporting limit for copper at upgradient well GWA-2 decreased from the historical reporting limit of 0.025 mg/L to 0.005 mg/L. As a result of the substitution method of the most recent reporting limit for all non-detect measurements, the intrawell prediction limit also decreased to 0.0074 mg/L compared to the limit of 0.025 mg/L constructed during the background update in March 2022. No statistical exceedance resulted from the lower statistical limit.

Compliance data from the August 2022 sample event are compared to the intrawell background limits. A statistical exceedance was identified in the following well:

- Selenium: GWC-1R

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.

Note that the reported August 2022 observation of 0.03 mg/L for selenium at well GWC-1R is below the respective Maximum Contaminant Level (MCL) of 0.05 mg/L.

Trend Test Evaluation – Appendix I & II

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. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. A summary and graphical presentation of the trend test results follows this letter (Figure G). No statistically significant increasing or decreasing trend was noted for selenium at well GWC-1R. Note that for selenium at upgradient well YGWA-17S, a statistically significant increasing trend was identified. The slope, however, is zero at this well which represents the median slope of all the possible pairwise slopes of the data evaluated.

CCR Appendix III Constituents – August 2022

Intrawell Prediction Limits

For fluoride and pH, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through August 2021 (Figure E). The August 2022 sample from each well is compared to the background limit to determine whether there are exceedances over background. An exceedance was identified for pH at upgradient well GWA-2.

Interwell Prediction Limits

For Appendix III parameters that are analyzed using interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), background (upgradient) well data from all the Yates units were re-assessed for potential outliers during this analysis. No new outliers were flagged for Appendix III parameters using interwell prediction limits. 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).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data from all of the Yates units through August 2022 (Figure F). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent.

The August 2022 sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for the following downgradient well/constituent pairs:

- Boron: GWC-2R and GWC-4R
- Calcium: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R
- Chloride: GWC-2R and GWC-4R
- Sulfate: GWC-1R, GWC-2R, GWC-5R, and GWC-6R
- TDS: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R

Trend Test Evaluation – Appendix III

Data from downgradient well/constituent pairs found to exceed their respective intrawell and interwell prediction limits were further evaluated using the Sen's Slope/Mann Kendall trend test. Trend tests were also performed for upgradient wells across all Yates units

(Figure G). Statistically significant trends were identified among the following downgradient well/constituent pairs:

Trends – Intrawell Prediction Limit Exceedances

Increasing

- pH: YGWA-21I (upgradient)

Decreasing

- pH: GWA-2, YGWA-18S, YGWA-39, YGWA-47, YGWA-4I, and YGWA-5D (All Upgradient)

Trends – Interwell Prediction Limit Exceedances

Increasing

- Calcium: GWA-2, YGWA-1D, YGWA-17S, YGWA-21I (all upgradient) and GWC-2R
- Chloride: GWA-2, YGWA-17S, YGWA-18S, YGWA-20S, YGWA-40 (All upgradient) and GWC-2R
- Sulfate: GWA-2, YGWA-1D, YGWA-3D, YGWA-3I, YGWA-5I (all upgradient) and GWC-2R
- TDS: GWA-2, YGWA-39 (both upgradient), and GWC-2R

Decreasing

- Boron: YGWA-40 (upgradient)
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, and YGWA-47 (all upgradient)
- Chloride: YGWA-3D, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D, YGWA-18I, YGWA-39, YGWA-40, and YGWA-47 (all upgradient)
- TDS: YGWA-5D and YGWA-47 (both upgradient)

When trends are noted upgradient of the facility, it is an indication that groundwater concentrations are naturally changing over time.

Statistical Analysis of CCR Appendix IV Parameters – August 2022

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value of 0.075 mg/L for cobalt at upgradient well GWA-2 from the August 2022 sample event was flagged as an outlier and deselected prior to construction of statistical limits in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The more recent reported measurements of cobalt since August 2020 were previously flagged as these measurements were two orders of magnitude higher than remaining measurements at this well. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be included in construction of interwell tolerance limits. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data from all the Yates units for Appendix IV constituents (Figure H). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level (i.e., false positive rate) is too small to display in the results table.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). As described in 40 CFR §257.95(h) (1-3), the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR Rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). On February 22, 2022, Georgia EPD incorporated the CCR-rule specified limits for these constituents (391-3-4-.10(6)(a)) which are utilized in this analysis. Following Georgia EPD Rule requirements

and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for the August 2022 sample event (Figure I).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well using all historical data since 2016 (Figure J). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs containing 100% non-detects since 2016. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. The confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals and complete graphical results follow this letter. No exceedances were identified for the confidence intervals.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates CCR Landfill Gypsum Stack. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

Date Ranges

Date: 10/11/2022 3:23 PM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Barium (mg/L)

GWC-4R background:3/28/2011-8/18/2021

GWC-5R background:8/14/2013-8/18/2021

100% Non-Detects: Appendix I & II

Analysis Run 10/24/2022 11:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)
GWC-1R, GWC-3R, GWC-6R

Beryllium (mg/L)
GWA-2, GWC-6R

Cadmium (mg/L)
GWA-2, GWC-6R

Lead (mg/L)
GWC-6R

Selenium (mg/L)
GWA-2

Silver (mg/L)
GWA-2, GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-6R

Thallium (mg/L)
GWC-1R, GWC-3R, GWC-4R, GWC-6R

100% Non-Detects: Appendix IV Downgradient

Analysis Run 10/24/2022 12:54 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)
GWC-1R, GWC-3R, GWC-6R

Beryllium (mg/L)
GWC-6R

Cadmium (mg/L)
GWC-6R

Lead (mg/L)
GWC-6R

Molybdenum (mg/L)
GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Thallium (mg/L)
GWC-1R, GWC-3R, GWC-4R, GWC-6R

Appendix I & II Intrawell Prediction Limit - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-1R	0.019	n/a	8/30/2022	0.03	Yes	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2

Appendix I & II Intrawell Prediction Limit - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 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-2	0.003	n/a	8/30/2022	0.003ND	No	36	n/a	n/a	91.67	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	8/31/2022	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-4R	0.003	n/a	8/30/2022	0.00094J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	8/30/2022	0.003ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	8/30/2022	0.0024J	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	8/30/2022	0.0035J	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	8/31/2022	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-3R	0.005	n/a	8/30/2022	0.005ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	8/30/2022	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-5R	0.005	n/a	8/30/2022	0.0035J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	72.73	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07655	n/a	8/30/2022	0.031	No	36	0.04995	0.01231	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09209	n/a	8/30/2022	0.058	No	27	0.04909	0.01922	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	8/31/2022	0.026	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.08517	n/a	8/30/2022	0.01	No	27	0.3004	0.06239	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.06816	n/a	8/30/2022	0.022	No	28	0.3039	0.04699	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.058	n/a	8/30/2022	0.01	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-6R	0.09329	n/a	8/30/2022	0.028	No	33	0.04743	0.02102	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	8/30/2022	0.00037J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	8/31/2022	0.00023J	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	8/30/2022	0.00056	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	8/30/2022	0.000072J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.0037	n/a	8/30/2022	0.0032	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWC-1R	0.0025	n/a	8/30/2022	0.00026J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0005	n/a	8/31/2022	0.00012J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	8/30/2022	0.00016J	No	27	n/a	n/a	62.96	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	8/30/2022	0.00011J	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.00114	n/a	8/30/2022	0.00098	No	27	4.6e-10	4.5e-10	29.63	Kaplan-Meier	x^3	0.0005852	Param Intra 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	8/30/2022	0.005ND	No	36	n/a	n/a	77.78	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.0015J	No	27	n/a	n/a	44.44	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	32	n/a	n/a	84.38	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	8/30/2022	0.005ND	No	27	n/a	n/a	29.63	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	8/30/2022	0.005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	8/30/2022	0.0019J	No	27	n/a	n/a	18.52	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.0016J	No	33	n/a	n/a	33.33	n/a	n/a	0.001701	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006801	n/a	n/a	1 future	n/a	32	0.00327	0.001613	34.38	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.015	n/a	8/30/2022	0.00087J	No	27	n/a	n/a	37.04	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04592	n/a	8/31/2022	0.0036J	No	32	0.02134	0.01123	3.125	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.011	n/a	8/30/2022	0.0021J	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.006272	n/a	8/30/2022	0.002J	No	32	0.002253	0.001836	28.13	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.00077J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	96.97	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.0074	n/a	8/30/2022	0.005ND	No	29	n/a	n/a	44.83	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	8/30/2022	0.005ND	No	25	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	26	n/a	n/a	50	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	8/30/2022	0.001ND	No	36	n/a	n/a	97.22	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2

Appendix I & II Intrawell Prediction Limit - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	8/31/2022	0.001ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	8/30/2022	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	8/30/2022	0.0002ND	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	8/31/2022	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00043	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	8/30/2022	0.00014J	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	8/30/2022	0.0002ND	No	33	n/a	n/a	93.94	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.034	n/a	8/30/2022	0.015	No	29	n/a	n/a	10.34	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.008772	n/a	8/30/2022	0.0027J	No	20	-6.236	0.6381	30	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.0096	n/a	8/31/2022	0.005ND	No	25	n/a	n/a	44	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.0021J	No	25	n/a	n/a	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.004969	n/a	8/30/2022	0.00097J	No	20	0.04397	0.01129	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	26	n/a	n/a	65.38	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1R	0.019	n/a	8/30/2022	0.03	Yes	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-2R	0.01	n/a	8/31/2022	0.0042J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-3R	0.017	n/a	8/30/2022	0.0068	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-4R	0.01445	n/a	8/30/2022	0.0038J	No	32	0.07177	0.02213	25	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.04089	n/a	8/30/2022	0.019	No	27	0.02169	0.008579	3.704	None	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.0051	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	51.52	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	8/30/2022	0.001ND	No	35	n/a	n/a	88.57	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	8/31/2022	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	8/30/2022	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	8/30/2022	0.0026J	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	8/31/2022	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-3R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	8/30/2022	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-5R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.01ND	No	28	n/a	n/a	78.57	n/a	n/a	0.002337	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.02538	n/a	8/30/2022	0.011	No	30	-5.103	0.6488	10	None	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	31.82	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2R	0.01022	n/a	8/31/2022	0.01ND	No	27	-5.718	0.507	18.52	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01375	n/a	8/30/2022	0.01ND	No	21	0.006395	0.003152	9.524	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.01ND	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.02878	n/a	8/30/2022	0.022	No	23	0.01173	0.007426	0	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.01ND	No	28	n/a	n/a	42.86	n/a	n/a	0.002337	NP Intra (normality) 1 of 2

Intawell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	GWA-2	6.968	5.399	8/30/2022	5.39	Yes	30	6.184	0.3941	0	None	No	0.0006268	Param Intra 1 of 2

Intawell Prediction Limits Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2542	n/a	8/30/2022	0.086J	No	17	0.3185	0.08513	5.882	None	sqrt(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	8/30/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.58	n/a	8/31/2022	0.1ND	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.4329	n/a	8/30/2022	0.14	No	17	-2.548	0.7843	41.18	Kaplan-Meier	ln(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	8/30/2022	0.05J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	8/30/2022	0.11	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	8/30/2022	0.064J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	6.968	5.399	8/30/2022	5.39	Yes	30	6.184	0.3941	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	6.8	4.49	8/30/2022	5.07	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	8/31/2022	5.23	No	25	n/a	n/a	0	n/a	n/a	0.005664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.572	4.528	8/30/2022	4.85	No	18	25.78	2.447	0	None	x^2	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-4R	6.16	5.07	8/30/2022	5.52	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-5R	5.568	4.599	8/30/2022	4.86	No	19	5.084	0.2272	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-6R	6.79	5.2	8/30/2022	5.82	No	28	n/a	n/a	0	n/a	n/a	0.004674	NP Intra (normality) 1 of 2

Interwell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 1:59 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)	GWC-2R	0.16	n/a	8/31/2022	0.19	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	8/30/2022	4.4	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/30/2022	189	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/31/2022	46.9	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/30/2022	55.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/30/2022	135	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/30/2022	40.6	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	12	n/a	8/31/2022	14.5	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	12	n/a	8/30/2022	146	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/30/2022	994	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/31/2022	280	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/30/2022	939	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/30/2022	174	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	218.7	n/a	8/30/2022	1600	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	218.7	n/a	8/31/2022	510	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	218.7	n/a	8/30/2022	628	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	218.7	n/a	8/30/2022	1570	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	218.7	n/a	8/30/2022	400	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2

Interwell Prediction Limits Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 1:59 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)	GWC-1R	0.16	n/a	8/30/2022	0.015J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2R	0.16	n/a	8/31/2022	0.19	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-3R	0.16	n/a	8/30/2022	0.014J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	8/30/2022	4.4	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5R	0.16	n/a	8/30/2022	0.058	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	8/30/2022	0.0092J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/30/2022	189	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/31/2022	46.9	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-3R	37	n/a	8/30/2022	17.5	No	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/30/2022	55.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/30/2022	135	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/30/2022	40.6	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1R	12	n/a	8/30/2022	5.6	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	12	n/a	8/31/2022	14.5	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-3R	12	n/a	8/30/2022	3.1	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	12	n/a	8/30/2022	146	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5R	12	n/a	8/30/2022	1.8	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	12	n/a	8/30/2022	7.5	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/30/2022	994	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/31/2022	280	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-3R	160	n/a	8/30/2022	76	No	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	8/30/2022	155	No	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/30/2022	939	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/30/2022	174	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	218.7	n/a	8/30/2022	1600	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	218.7	n/a	8/31/2022	510	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-3R	218.7	n/a	8/30/2022	150	No	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	218.7	n/a	8/30/2022	628	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	218.7	n/a	8/30/2022	1570	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	218.7	n/a	8/30/2022	400	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2

Trend Test Summary (Prediction Limit Exceedances) - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.453	82	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	6.93	90	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1364	109	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.08039	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.6514	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-11 (bg)	-0.09504	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-211 (bg)	0.9751	97	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.342	-95	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.676	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.896	67	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-181 (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04438	-195	-161	Yes	32	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05687	-138	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-211 (bg)	0.1311	120	98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2106	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0405	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-41 (bg)	-0.0501	-99	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.07627	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0	100	87	Yes	21	71.43	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	17.26	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	30.08	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	121	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.631	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3364	89	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-31 (bg)	1.016	86	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.899	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-17.58	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.862	-129	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-51 (bg)	0.08795	115	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	60.19	82	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	23	63	No	17	64.71	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-2R	0.01449	53	63	No	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.2837	34	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.000665	-40	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0001704	22	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-22	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.000309	24	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0008221	34	74	No	19	36.84	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-8	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-9	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.0004731	-56	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-6	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01331	56	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	0	74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0008357	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	1	74	No	19	68.42	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	31	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-25	-74	No	19	63.16	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.453	82	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1R	16.13	40	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	6.93	90	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-4R	4.726	48	63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	4.933	50	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	-4.001	-15	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	0	-15	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1364	109	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.04637	26	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.08039	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.6514	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.09504	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.03848	54	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.9751	97	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.08578	13	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.0125	31	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.273	55	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.4525	59	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5467	60	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.6546	-42	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.342	-95	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.04736	10	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.676	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06231	74	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.896	67	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-4R	8.737	26	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1251	51	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1557	72	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-37	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01802	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1148	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02221	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.768	51	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.02929	-65	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08123	41	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	5	74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04438	-195	-161	Yes	32	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-14S (bg)	-0.01086	-32	-98	No	23	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results Page 2

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	YGWA-17S (bg)	-0.01344	-86	-92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18I (bg)	-0.02714	-70	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05687	-138	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1D (bg)	-0.05026	-77	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.03356	-69	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.01912	54	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.1311	120	98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-2I (bg)	-0.02039	-33	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.002761	9	92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2106	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3D (bg)	-0.007396	-18	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.02691	-45	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	-0.05563	-28	-74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0405	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.0501	-99	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.07627	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5I (bg)	-0.02829	-70	-98	No	23	0	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	206	No	38	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	35	139	No	29	44.83	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0	100	87	Yes	21	71.43	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18I (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	39	92	No	22	90.91	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	3	68	No	18	94.44	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	-0.0004047	-36	-68	No	18	38.89	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	19	43	No	13	84.62	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	5	92	No	22	90.91	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	19	92	No	22	95.45	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	17.26	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-1R	53.16	32	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	30.08	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-5R	-5.906	-4	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-50.61	-32	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0	-4	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.04813	32	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1345	-67	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1232	-53	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	121	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.1053	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2256	-45	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.041	62	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.01853	-15	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.631	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3364	89	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.016	86	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.899	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-17.58	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.04641	22	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.862	-129	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08795	115	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-1R	114.2	34	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	60.19	82	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-4R	29.83	31	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	14.04	8	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	-39.39	-20	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	3.694	44	74	No	19	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results Page 3

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 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>
TDS (mg/L)	YGWA-18I (bg)	-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	2.688	34	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	10.54	68	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	0.954	9	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-4I (bg)	0	-1	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5I (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/24/2022, 12:46 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig. Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 372	n/a	n/a	87.63	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 420	n/a	n/a	74.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a 420	n/a	n/a	2.619	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a 404	n/a	n/a	80.2	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 404	n/a	n/a	95.54	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 372	n/a	n/a	80.11	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 414	n/a	n/a	69.32	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 399	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 419	n/a	n/a	65.63	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 374	n/a	n/a	85.29	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 399	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 328	n/a	n/a	93.29	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 363	n/a	n/a	60.33	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 402	n/a	n/a	92.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 338	n/a	n/a	97.04	n/a	n/a	NaN	NP Inter(NDs)

YATES LANDFILL GYPSUM STACK GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.014	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.003	0.006	No	34	0.0002229	97.06	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0017	0.006	No	34	0.000758	85.29	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	29	0.0006648	93.1	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0035	0.01	No	29	0.001637	72.41	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	34	0.0009742	94.12	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0028	0.01	No	29	0.001418	79.31	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.0013	0.01	No	34	0.001228	91.18	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0012	0.01	No	29	0.001849	44.83	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No	35	0.001798	74.29	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.05862	0.04135	2	No	29	0.01885	0	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.06373	0.0475	2	No	34	0.02368	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-3R	0.03407	0.01888	2	No	29	0.02337	0	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03779	0.0249	2	No	34	0.01687	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.03084	0.01773	2	No	29	0.0174	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-6R	0.05498	0.03778	2	No	35	0.02085	0	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00013	0.004	No	29	0.001435	44.83	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00023	0.004	No	34	0.001341	67.65	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0011	0.0004	0.004	No	29	0.001093	24.14	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	34	0.001051	85.29	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.003	0.00048	0.004	No	29	0.001267	24.14	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.0005	0.00026	0.005	No	29	0.0001511	75.86	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	34	0.00015	79.41	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0005	0.00021	0.005	No	29	0.0001545	58.62	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.00011	0.005	No	34	0.00009435	94.12	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.00097	0.0005	0.005	No	29	0.0002849	27.59	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	GWC-1R	0.005	0.0011	0.1	No	29	0.001902	41.38	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0017	0.1	No	34	0.001516	85.29	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0023	0.0011	0.1	No	29	0.001775	31.03	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0013	0.1	No	34	0.00153	82.35	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0028	0.0019	0.1	No	29	0.001147	17.24	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0028	0.0014	0.1	No	35	0.001671	31.43	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.0008	0.035	No	29	0.00303	34.48	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02517	0.01526	0.035	No	34	0.01181	2.941	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0074	0.0041	0.035	No	29	0.002147	68.97	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-4R	0.004654	0.002487	0.035	No	34	0.002029	26.47	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00077	0.035	No	29	0.001966	75.86	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	35	0.0006085	97.14	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	0.9498	0.5466	6.92	No	16	0.331	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.423	0.6662	6.92	No	16	0.5815	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.003	0.2829	6.92	No	16	0.6621	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.5824	0.2291	6.92	No	16	0.2715	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.9013	0.283	6.92	No	16	0.4615	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.046	0.452	6.92	No	16	0.5389	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	19	0.02028	78.95	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	19	0.1149	73.68	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.15	0.07	4	No	19	0.1182	36.84	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	19	0.02216	73.68	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-5R	0.11	0.053	4	No	19	0.09221	47.37	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	19	0.04915	73.68	No	0.01	NP (normality)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.0013	No	29	0.0002425	93.1	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.0001	0.0013	No	34	0.0003798	79.41	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.001	0.00015	0.0013	No	29	0.0003968	75.86	No	0.01	NP (NDs)
Lead (mg/L)	GWC-4R	0.001	0.001	0.0013	No	34	0.0001645	97.06	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00019	0.0013	No	29	0.0003785	79.31	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.0024	0.0013	0.03	No	17	0.01117	17.65	No	0.01	NP (normality)
Lithium (mg/L)	GWC-2R	0.0053	0.0035	0.03	No	17	0.01019	17.65	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.03	No	17	0.01268	76.47	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.03	No	17	0.01357	70.59	No	0.01	NP (normality)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.03	No	17	0.01466	47.06	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.03	No	17	0.01204	23.53	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	29	0.00002618	96.55	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.0002	0.002	No	34	0.00002212	97.06	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.0002	0.000064	0.002	No	29	0.0000615	89.66	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.00014	0.002	No	34	0.00002771	91.18	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	29	0.000026	96.55	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.0002	0.002	No	35	0.00003848	94.29	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.0066	0.0039	0.05	No	29	0.006342	44.83	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-2R	0.005	0.0032	0.05	No	34	0.001197	47.06	No	0.01	NP (normality)

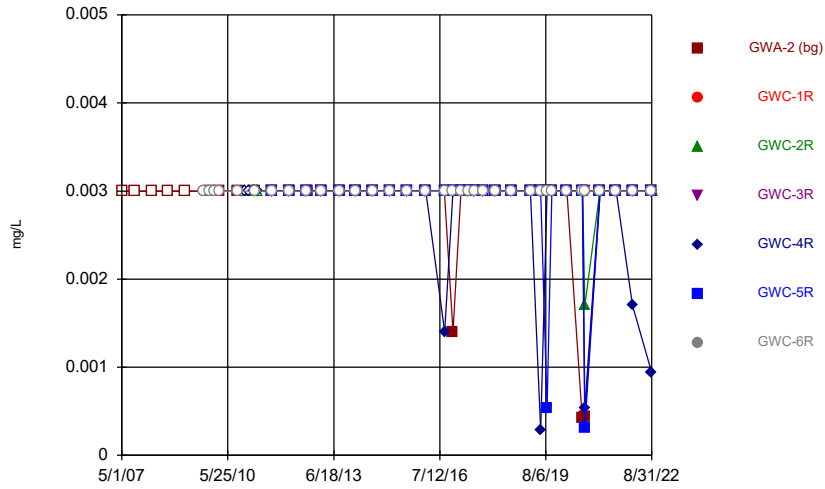
Confidence Interval Summary Table - All Results (No Significant) Page 2

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Selenium (mg/L)	GWC-3R	0.0057	0.0045	0.05	No	29	0.003261	37.93	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-4R	0.0054	0.0041	0.05	No	34	0.003502	23.53	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-5R	0.02517	0.01716	0.05	No	29	0.008738	3.448	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.005	0.0037	0.05	No	35	0.001251	54.29	No	0.01	NP (normality)
Thallium (mg/L)	GWC-2R	0.001	0.001	0.002	No	32	0.0001644	96.88	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	28	0.000179	96.43	No	0.01	NP (NDs)

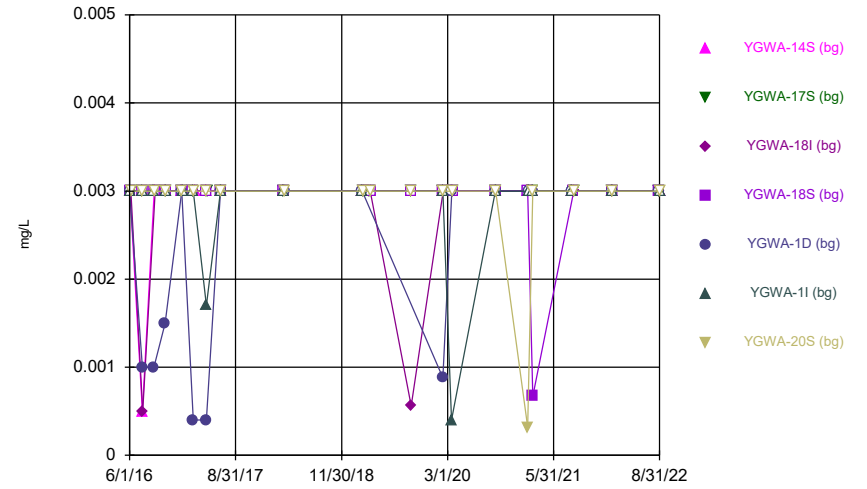
FIGURE A.

Time Series



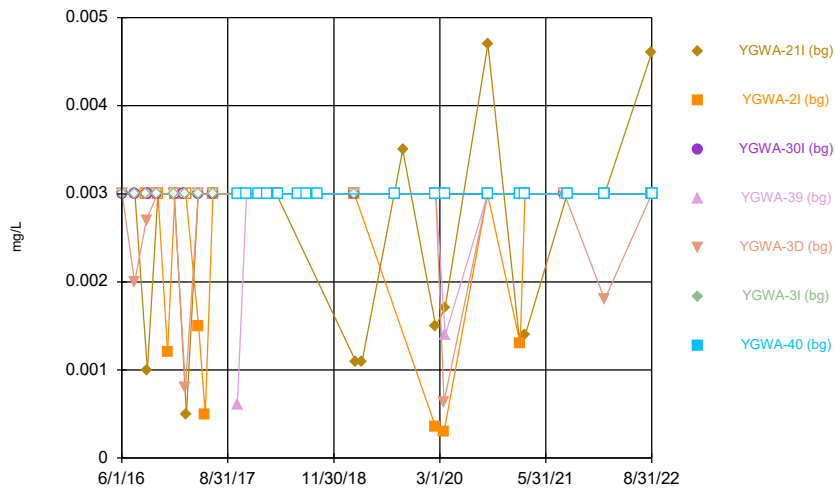
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



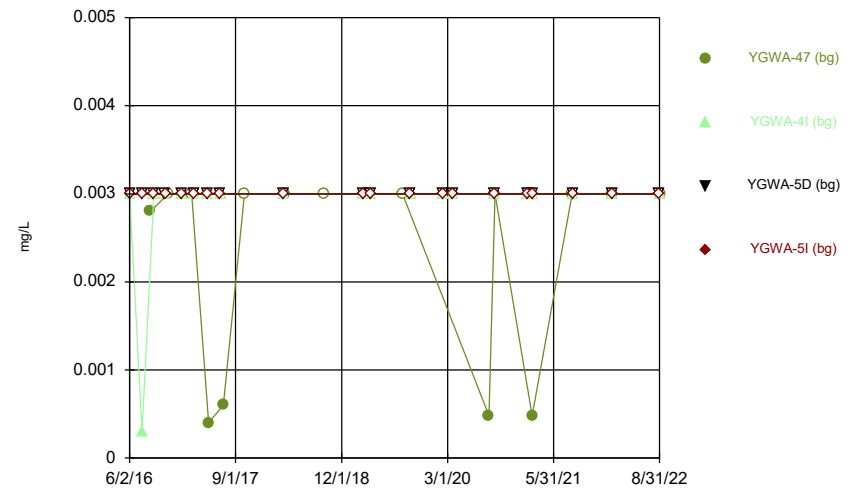
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Time Series



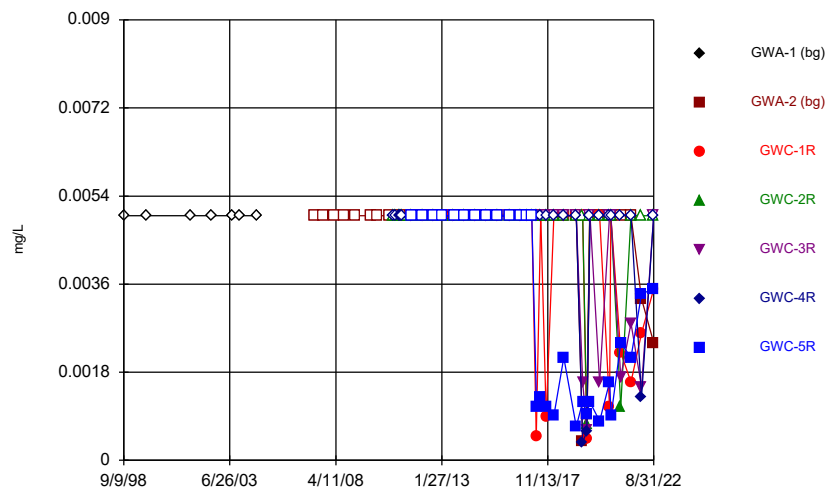
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Time Series



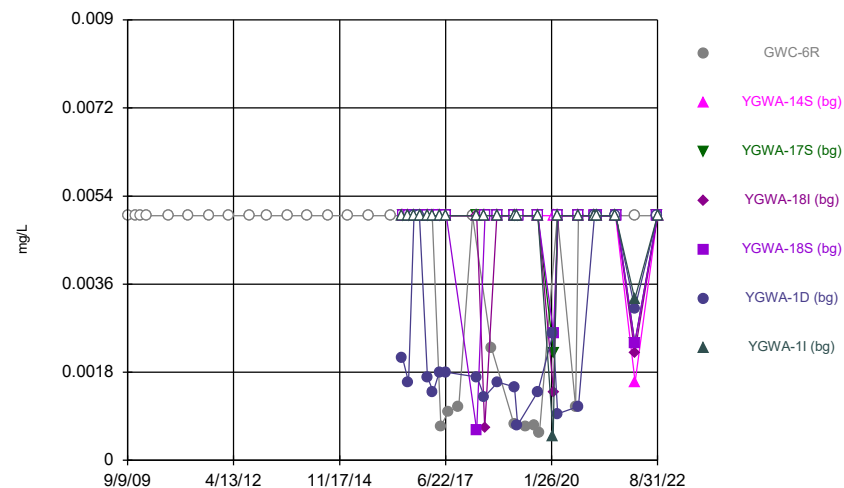
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Time Series



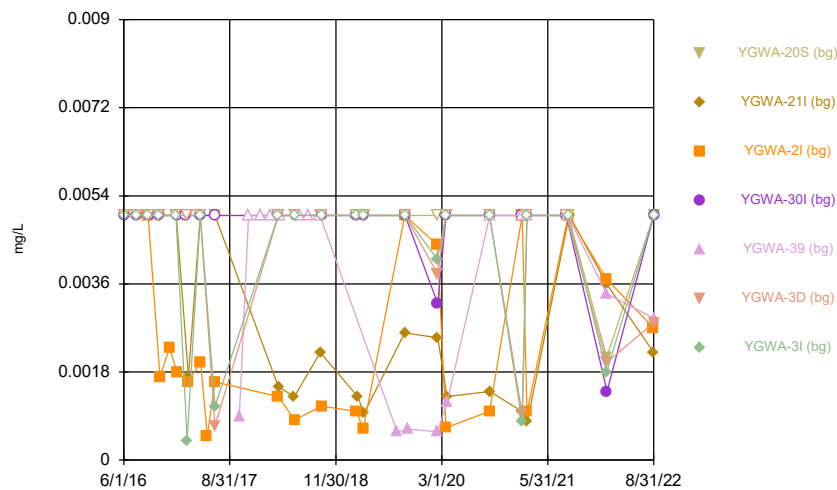
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Time Series



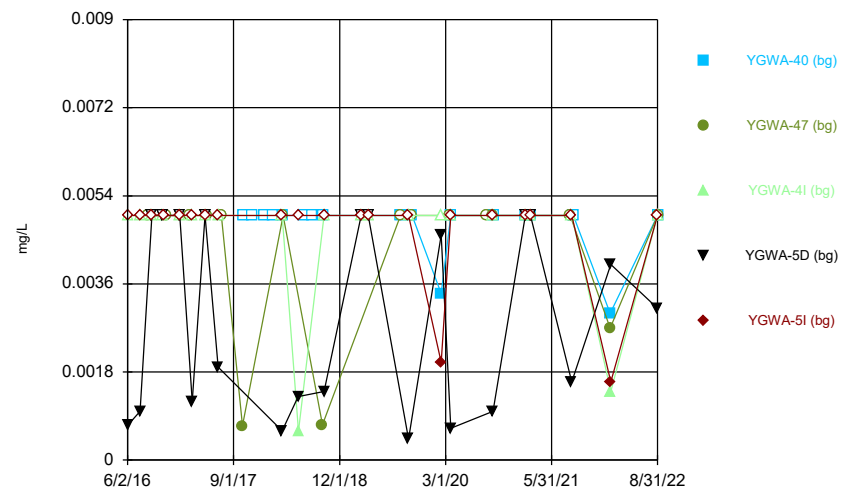
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Time Series



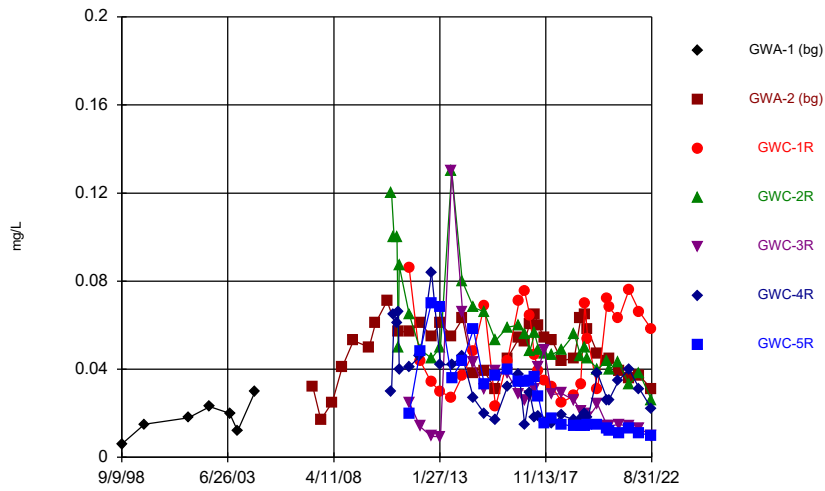
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

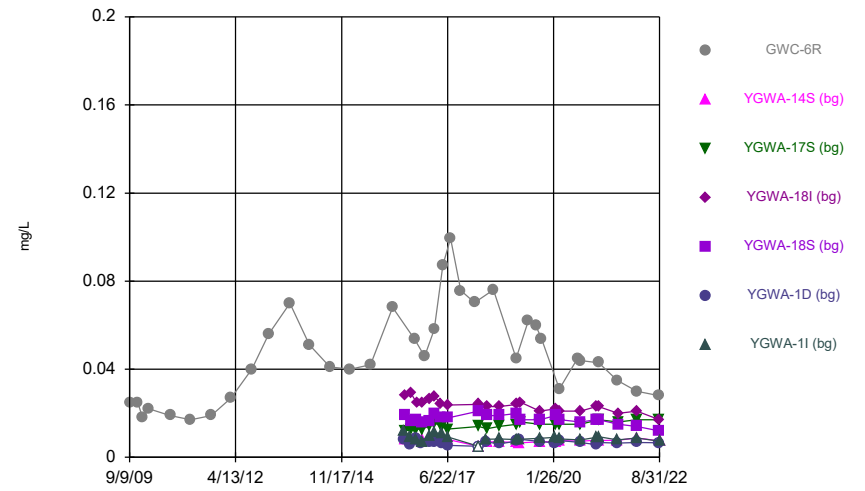
Time Series



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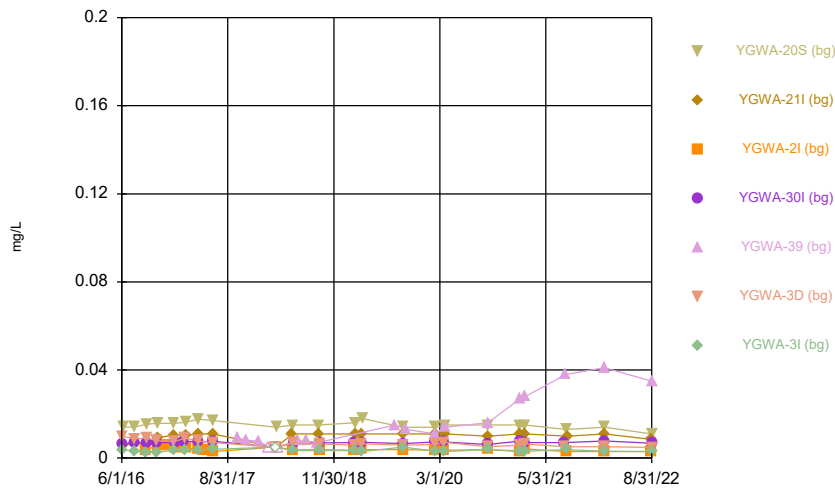
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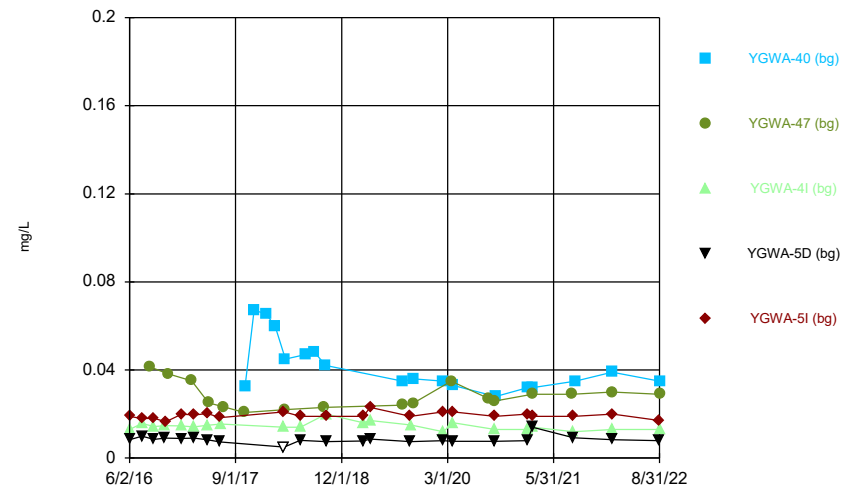
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

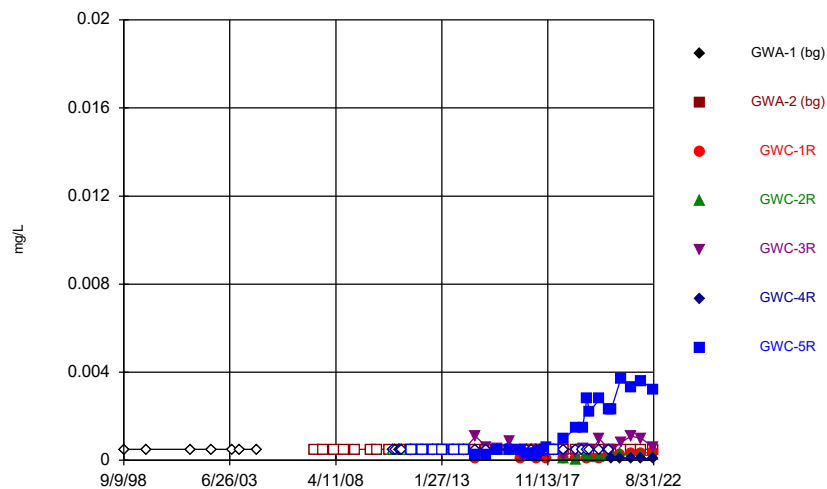
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Time Series



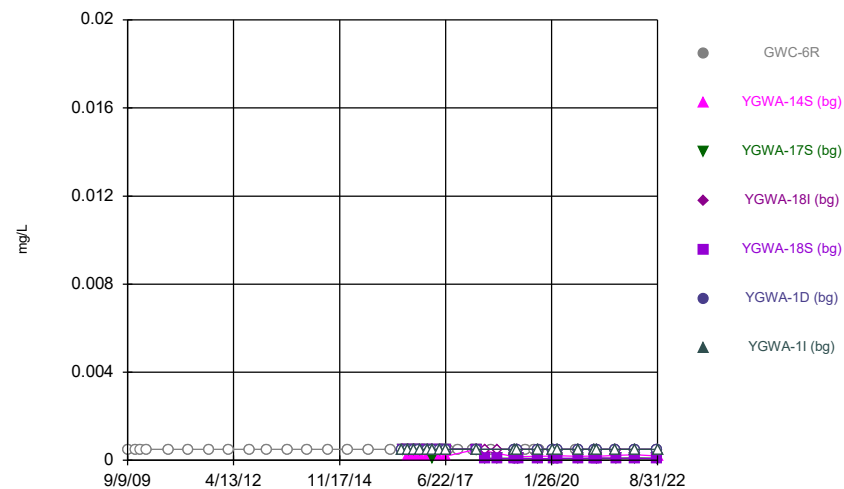
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Time Series



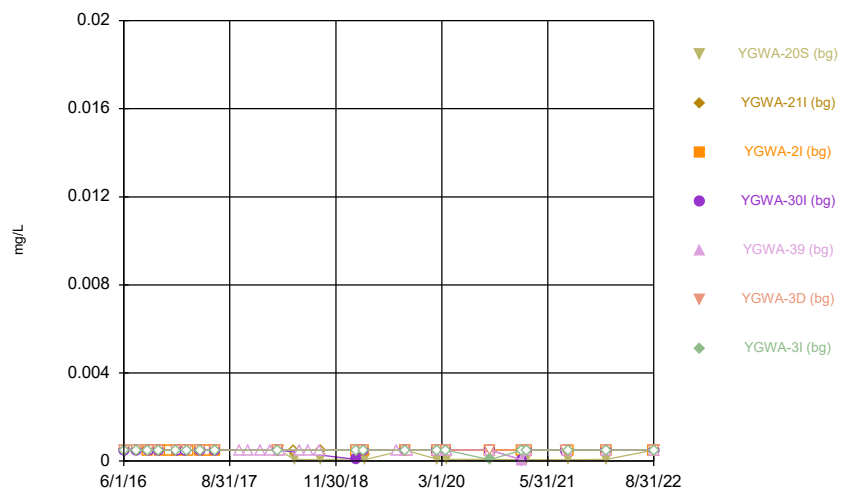
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Time Series



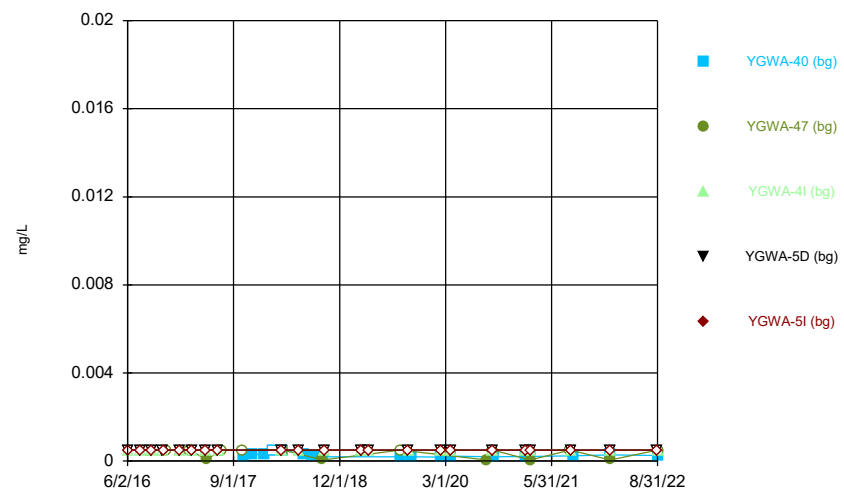
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Time Series



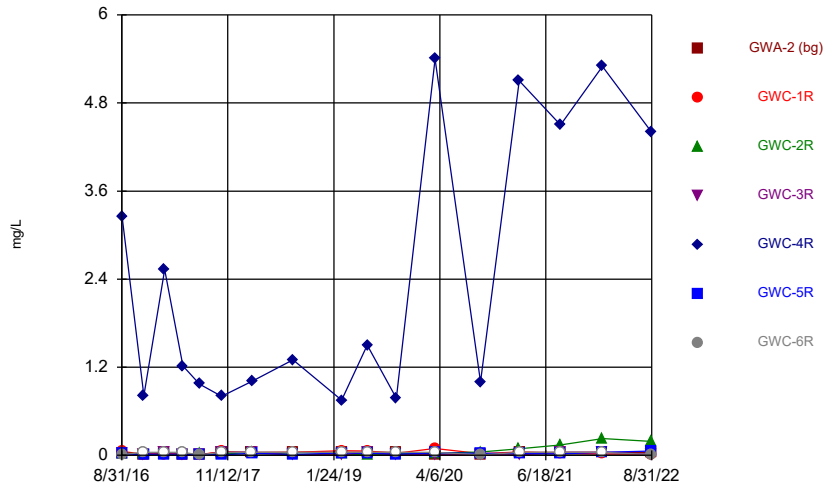
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Time Series



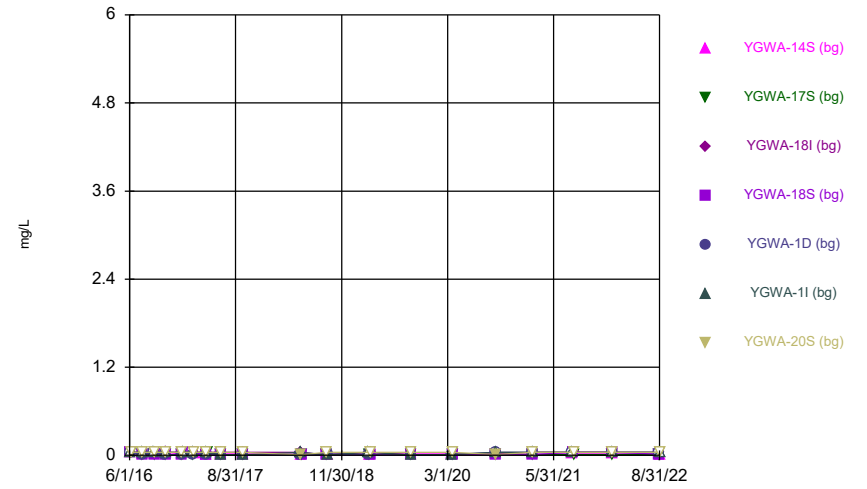
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Time Series



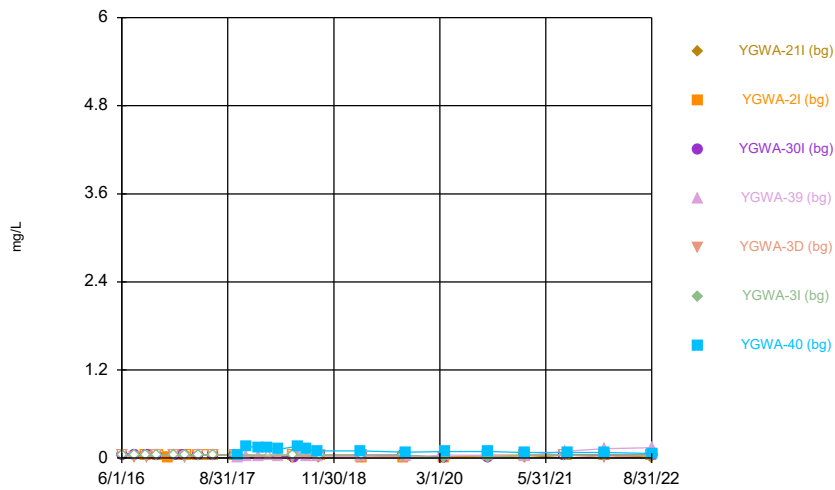
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Time Series



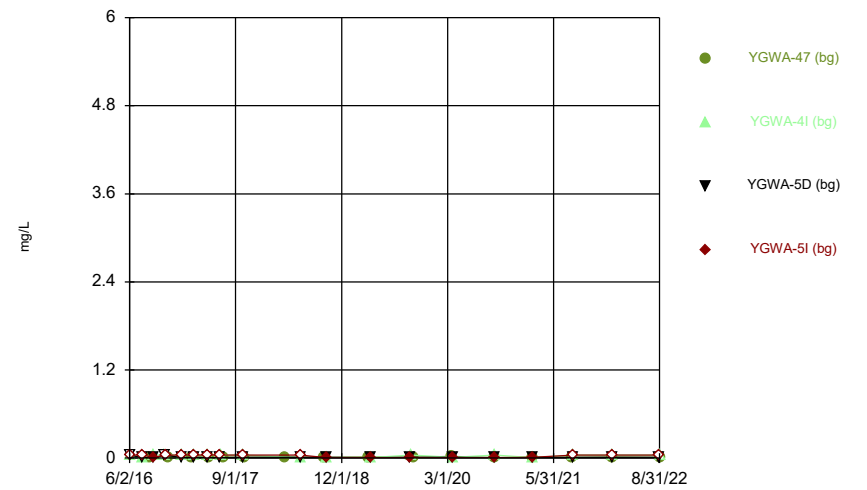
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Time Series



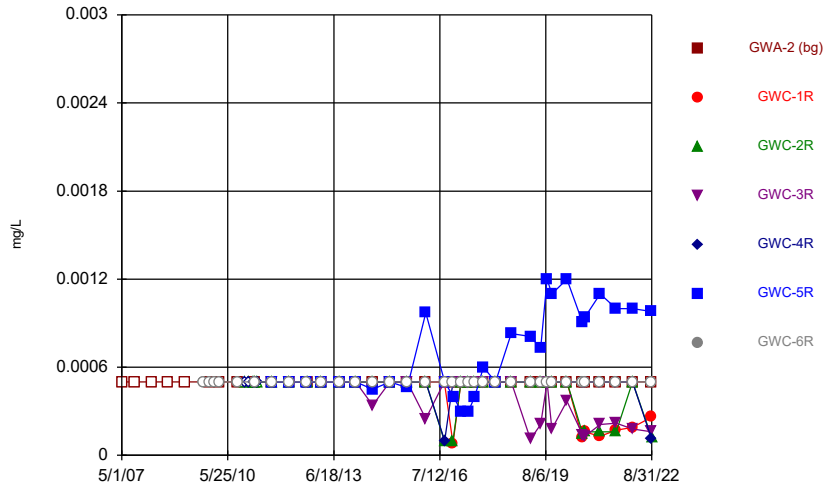
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Time Series



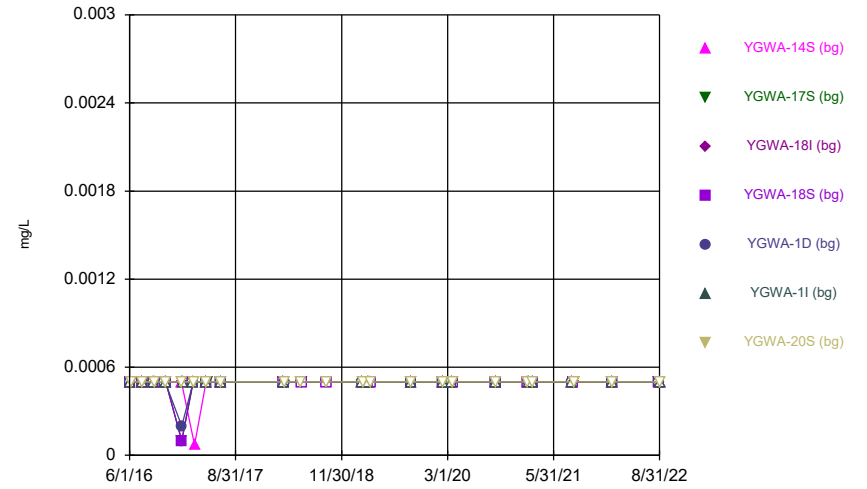
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Time Series



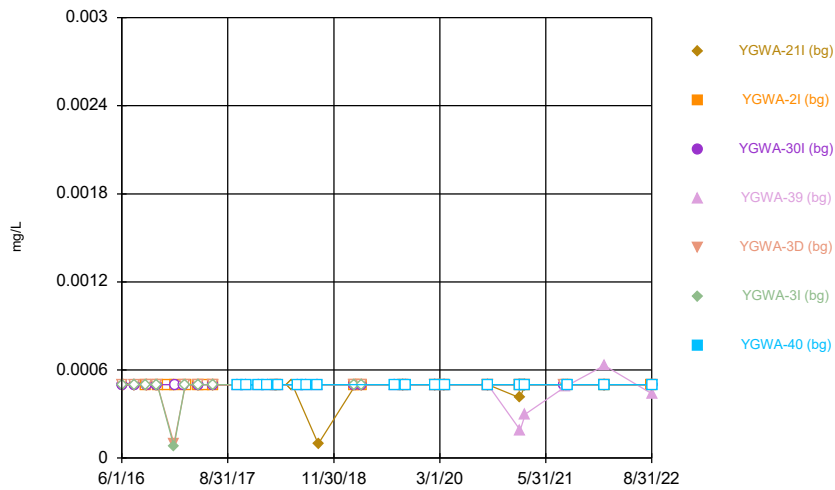
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Time Series



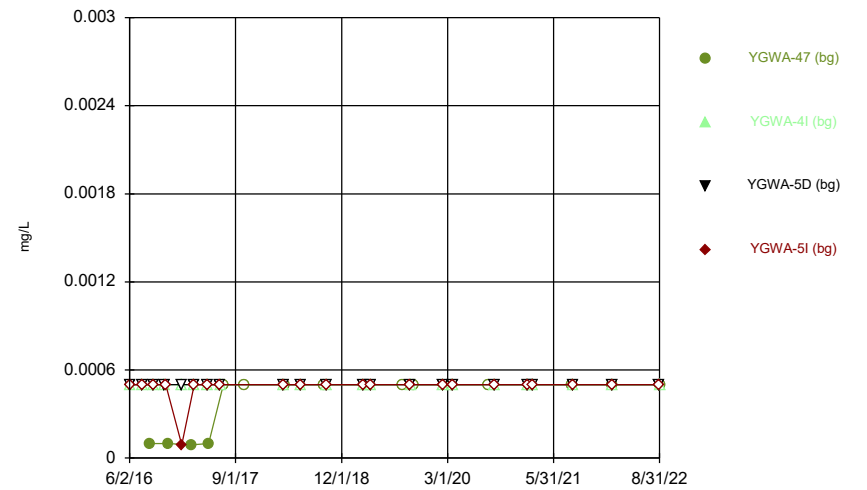
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Time Series



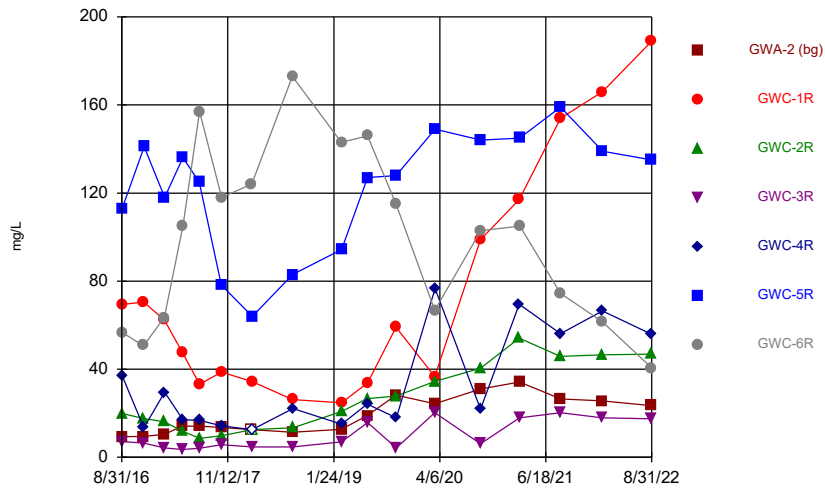
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Time Series



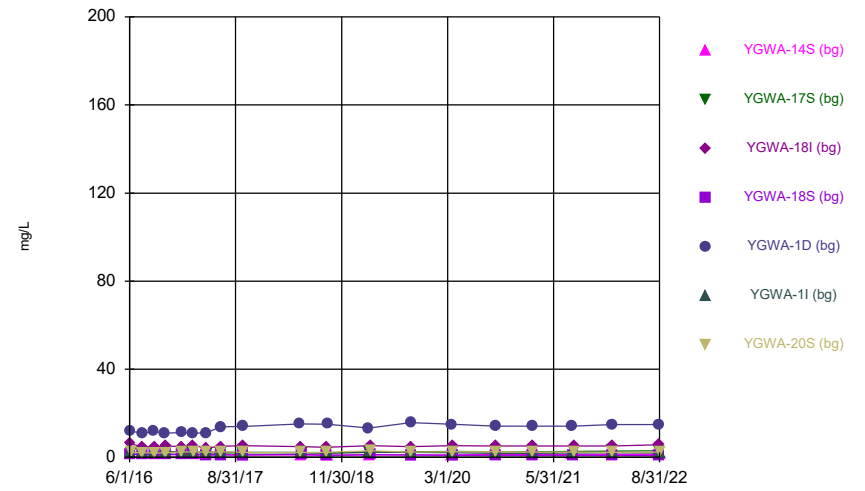
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Time Series



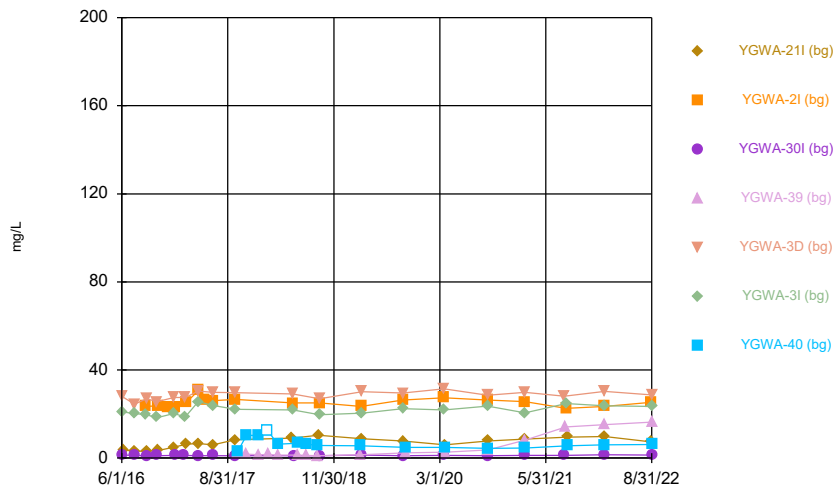
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Time Series



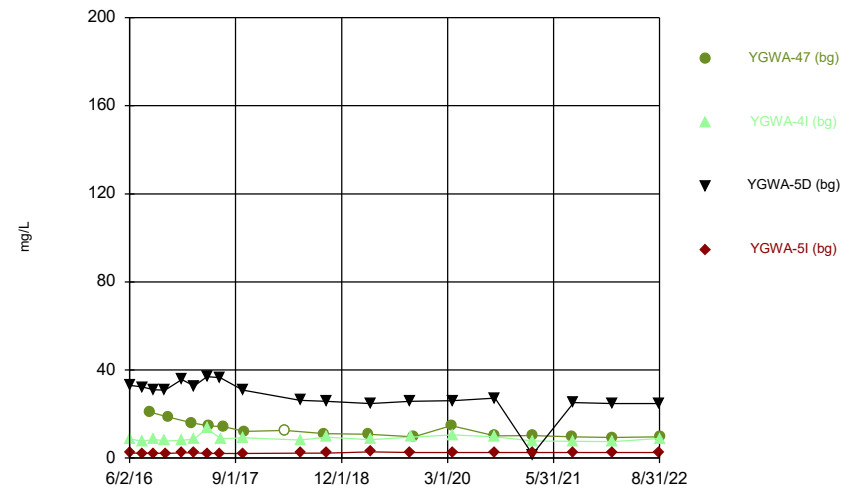
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Time Series



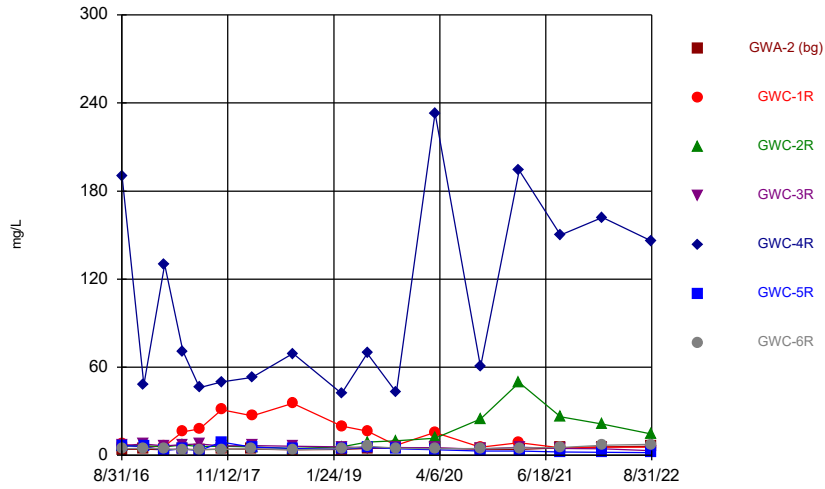
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Time Series



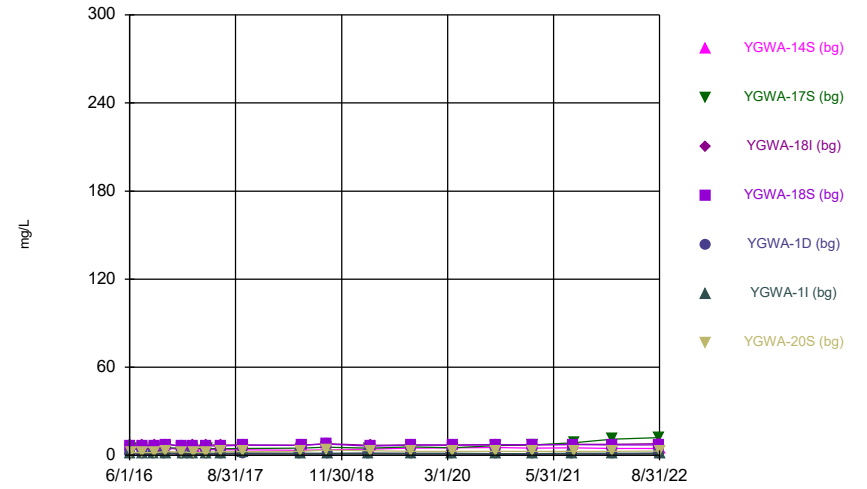
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Time Series



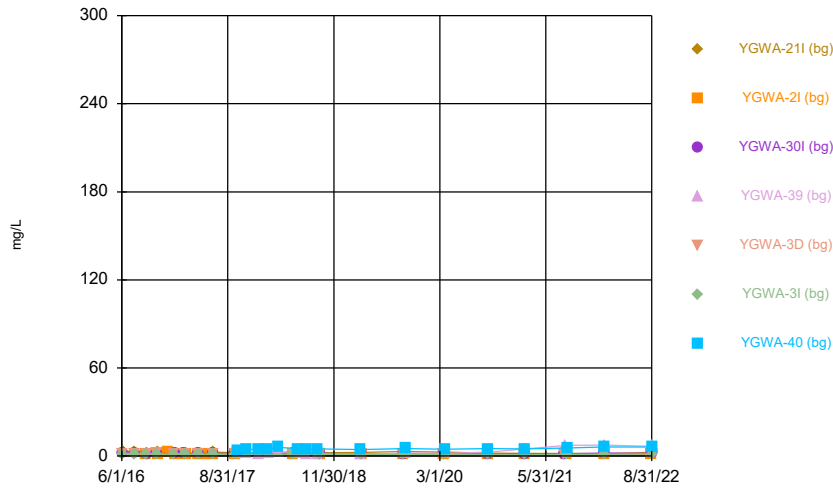
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Time Series



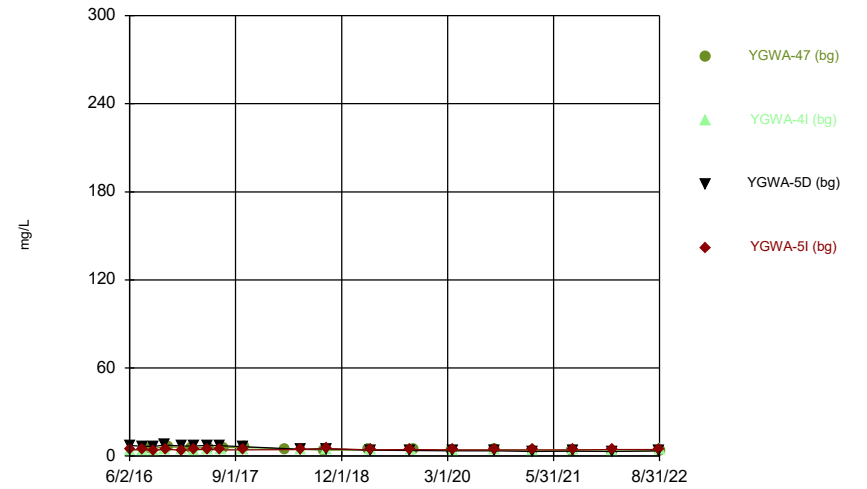
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Time Series



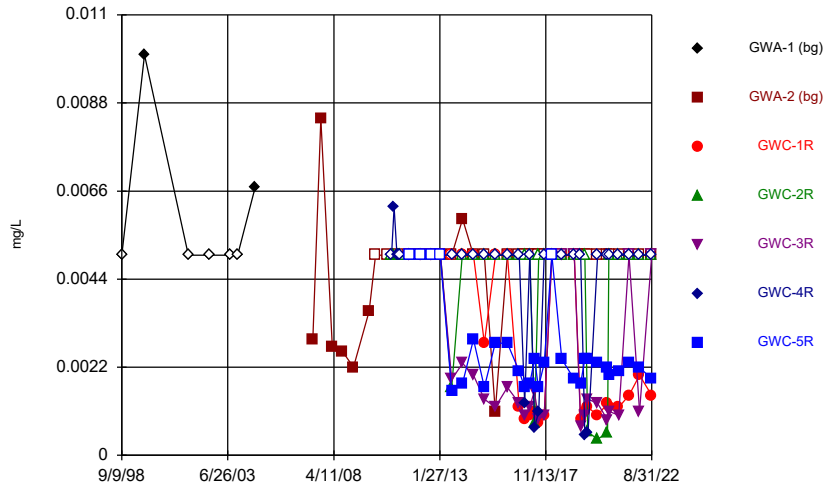
Constituent: Chloride Analysis Run 10/21/2022 2:53 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



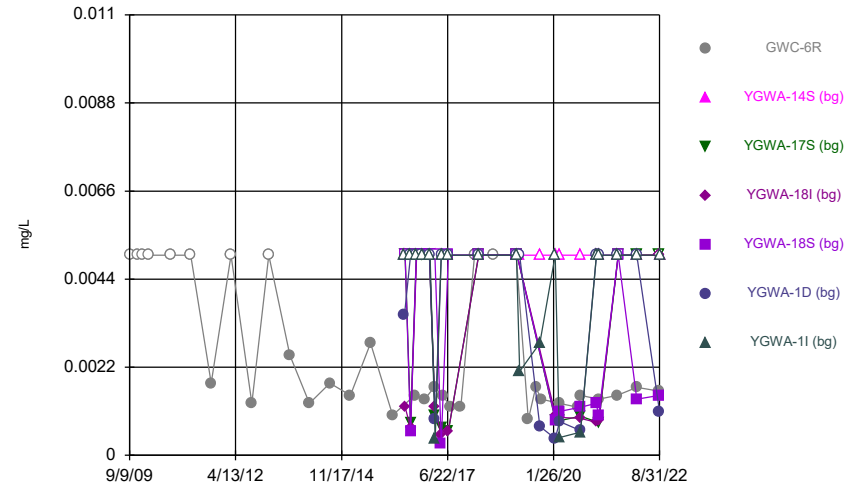
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



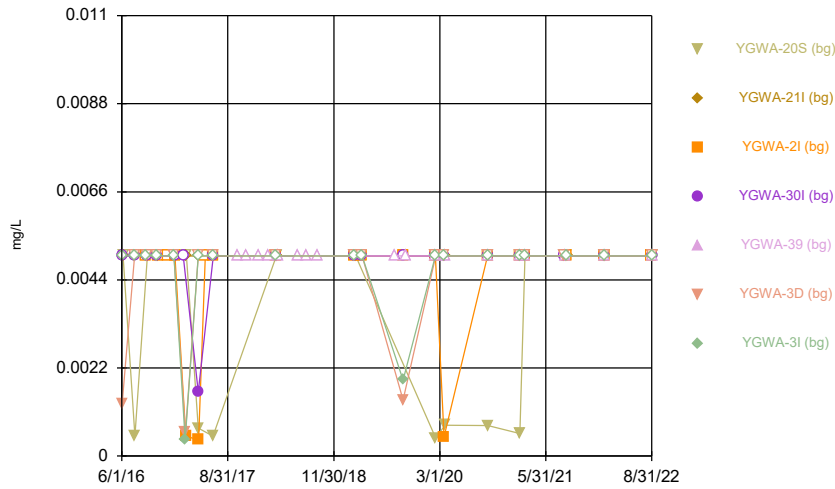
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



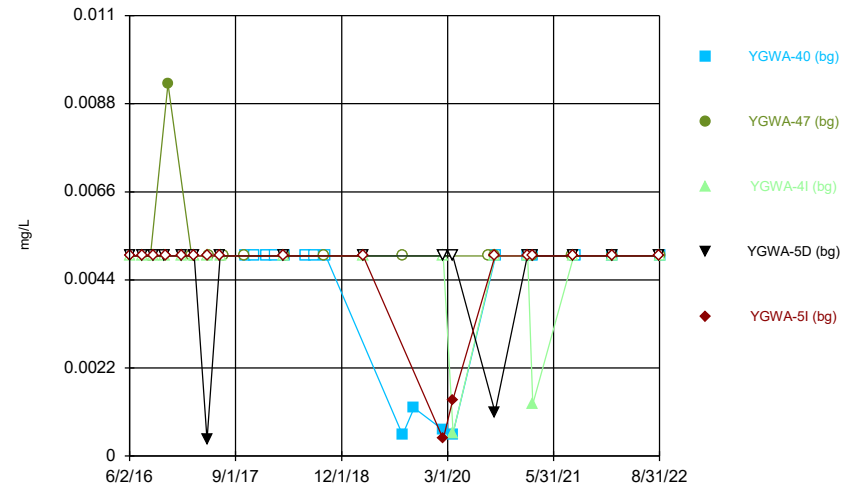
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



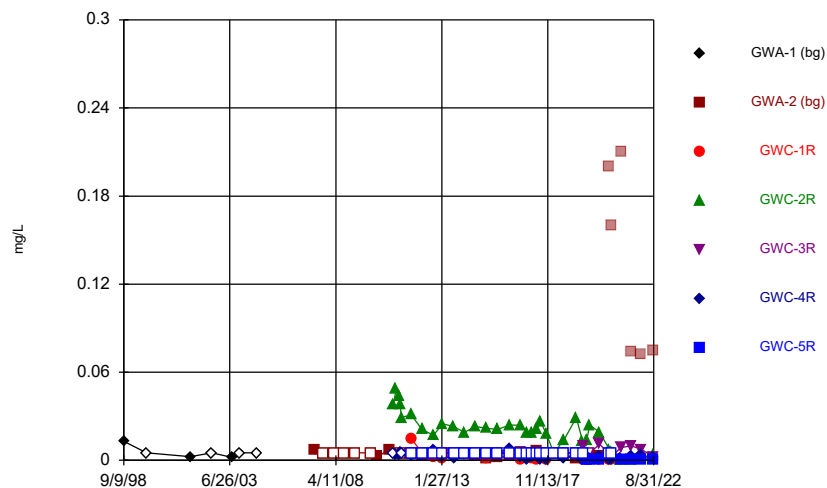
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Time Series



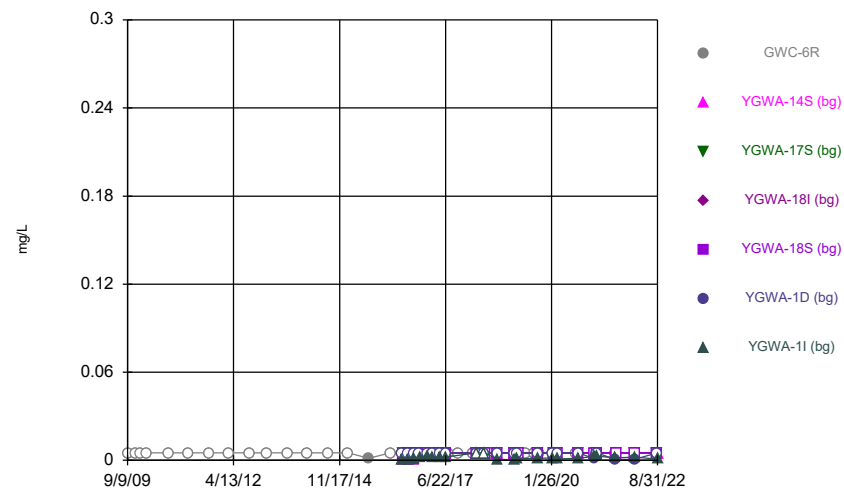
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



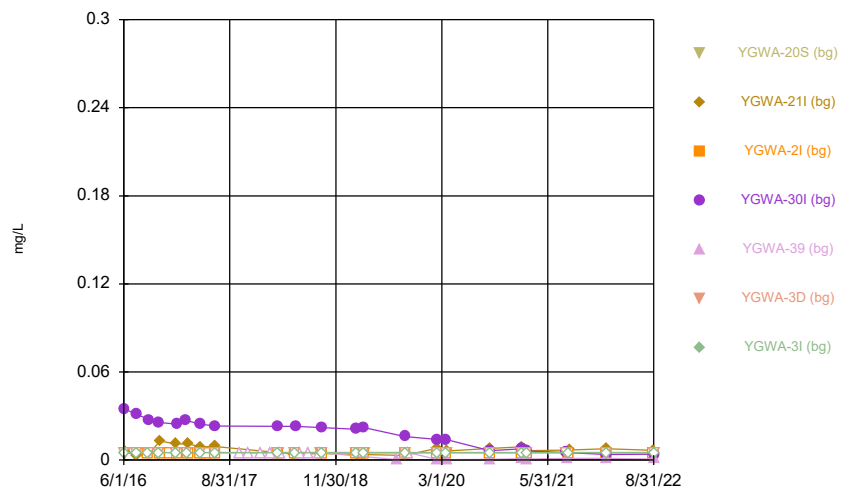
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



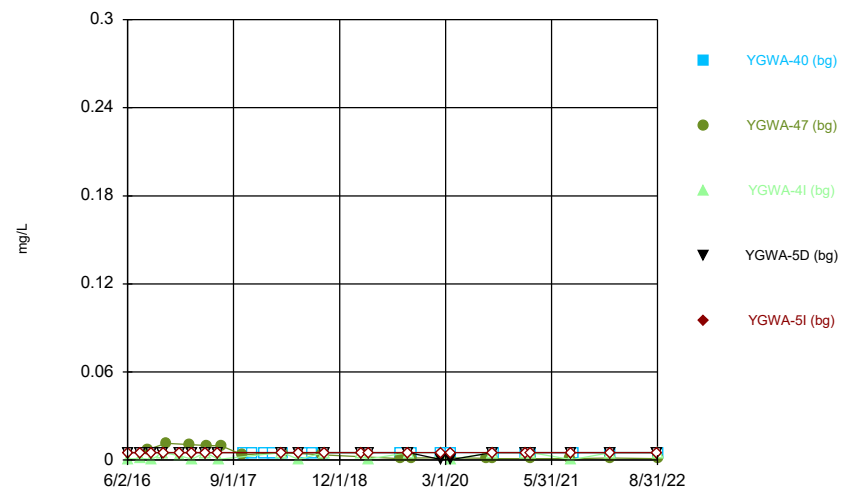
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



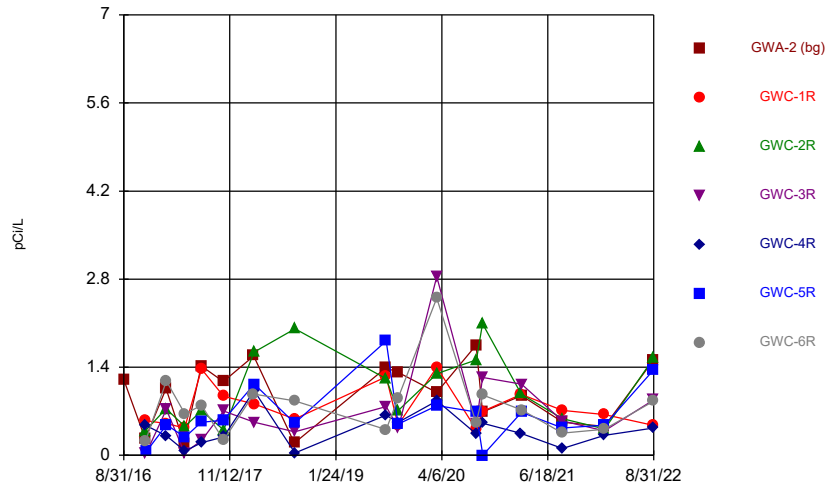
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



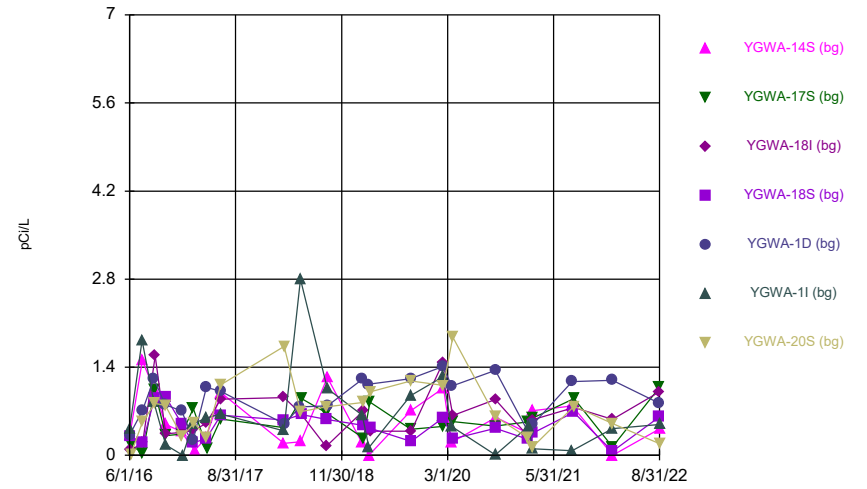
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



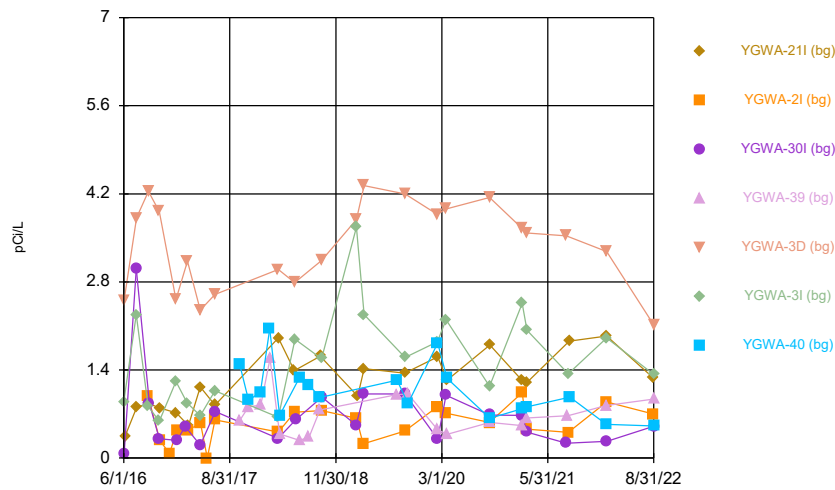
Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 2:53 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



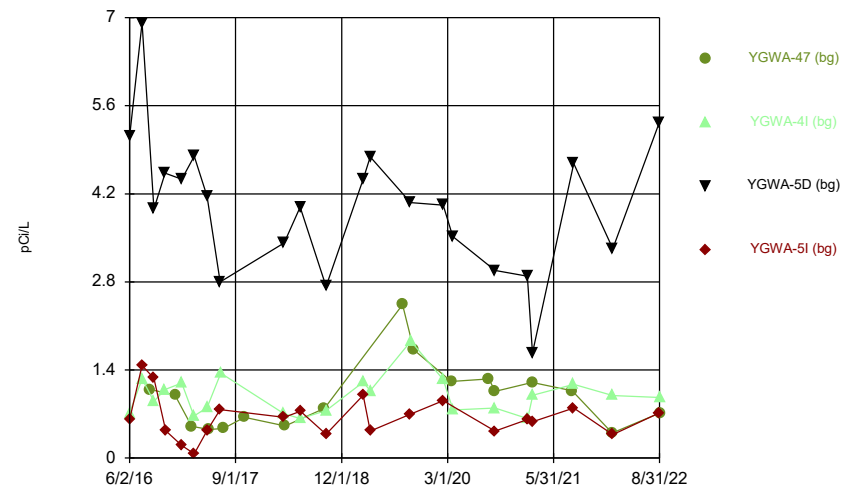
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



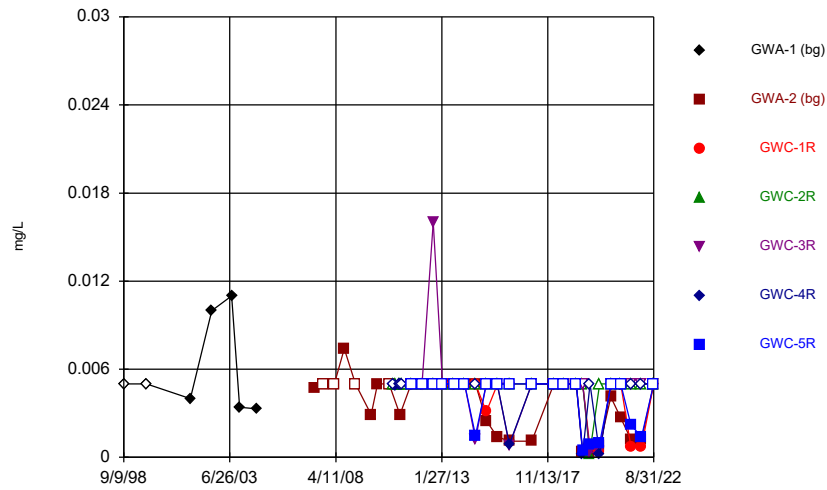
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



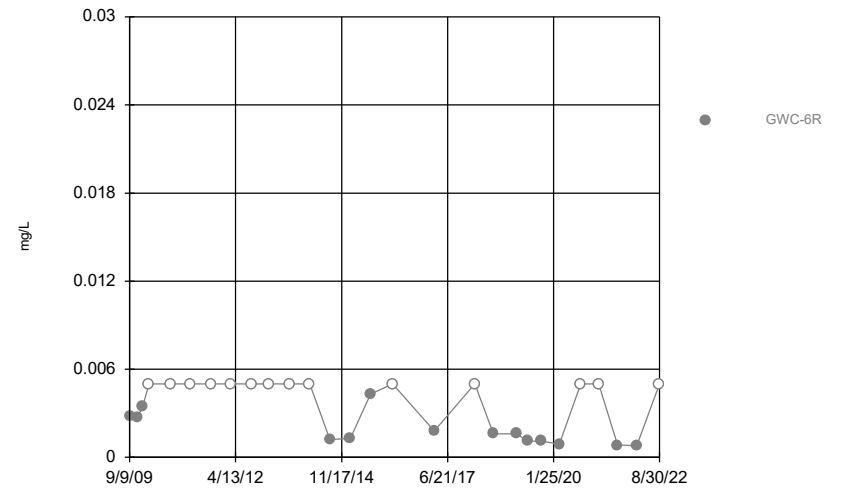
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



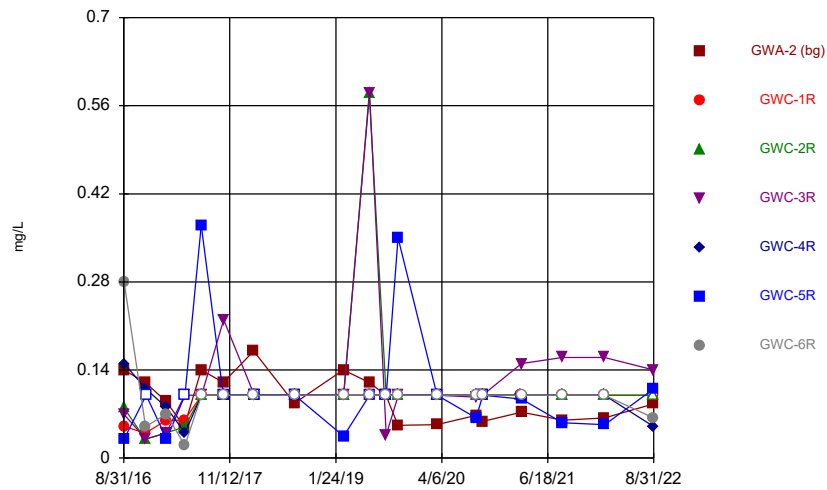
Constituent: Copper Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



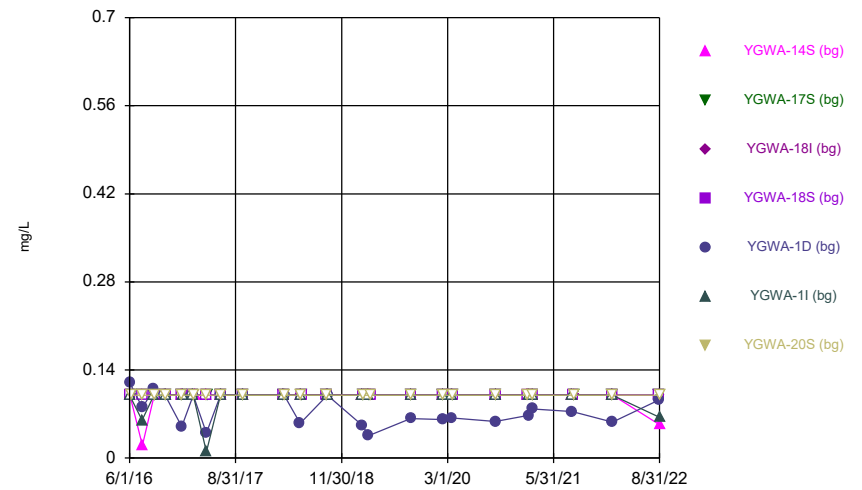
Constituent: Copper Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



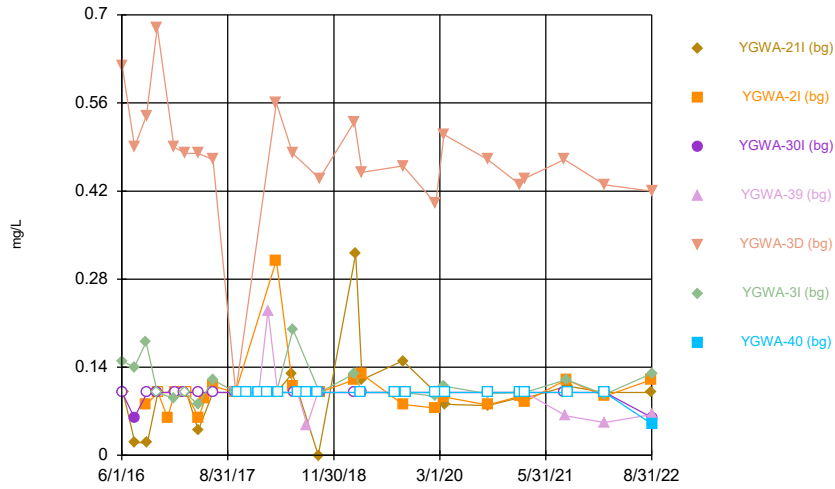
Constituent: Fluoride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



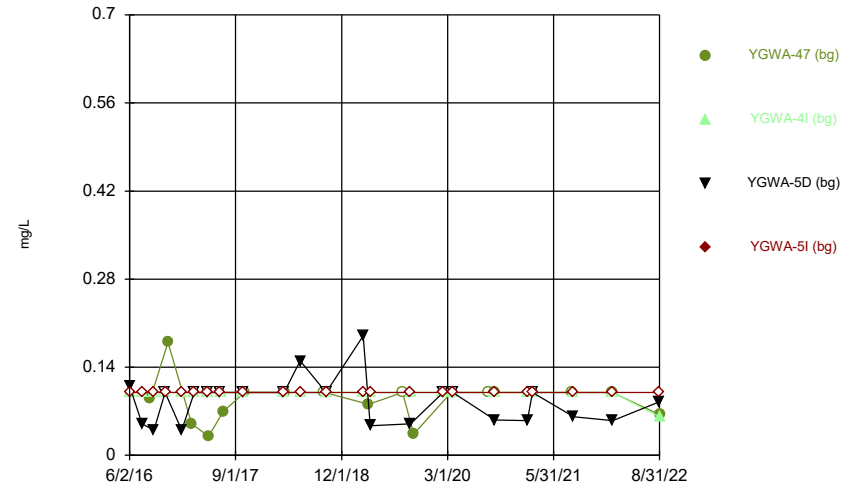
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



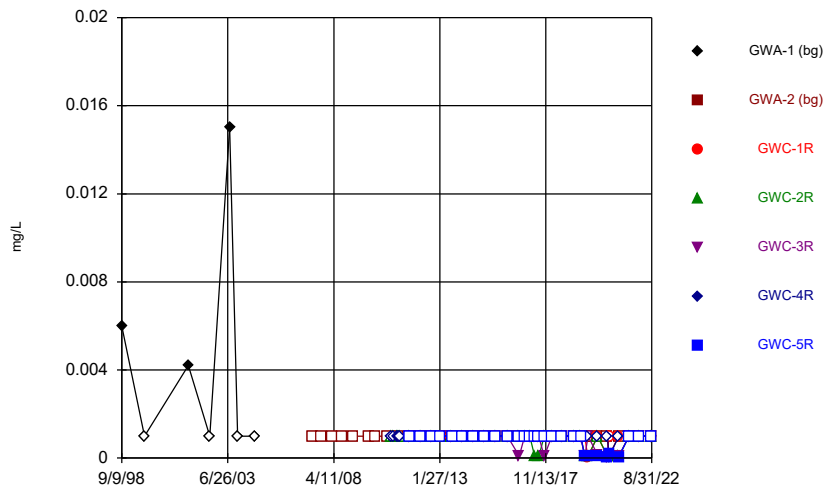
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



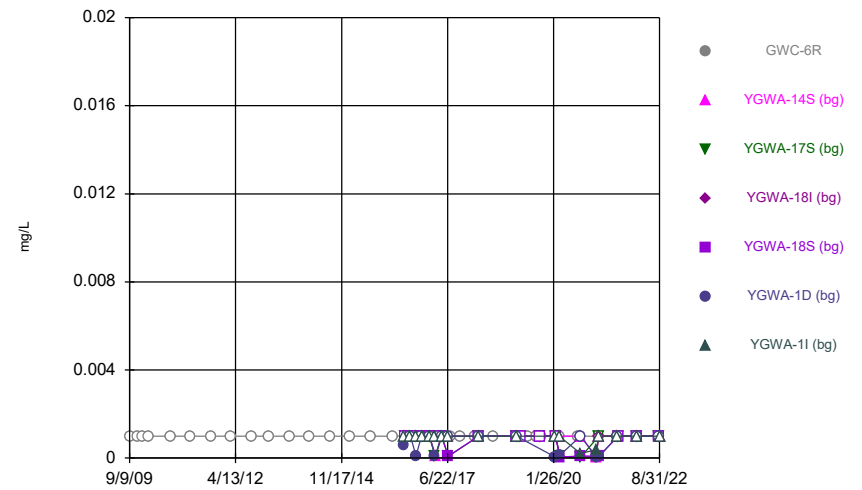
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Time Series



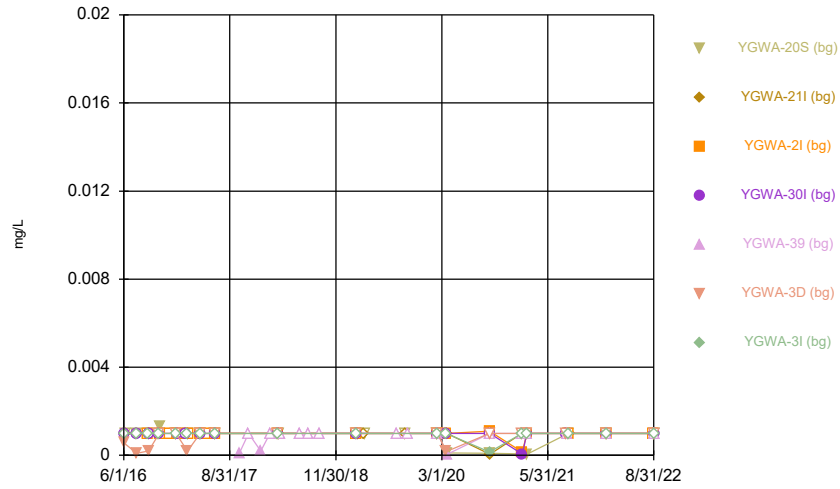
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



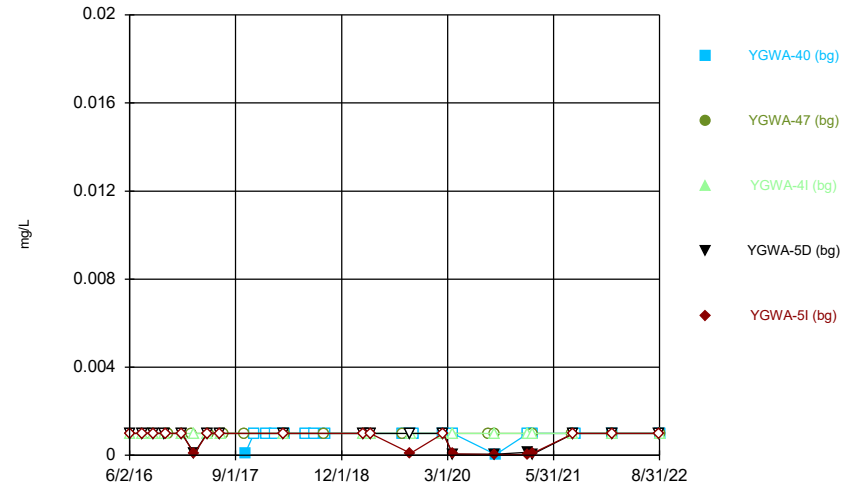
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



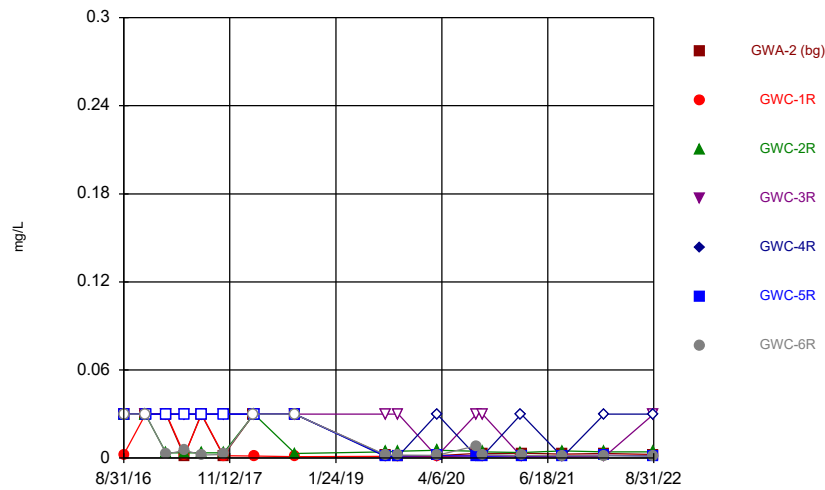
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



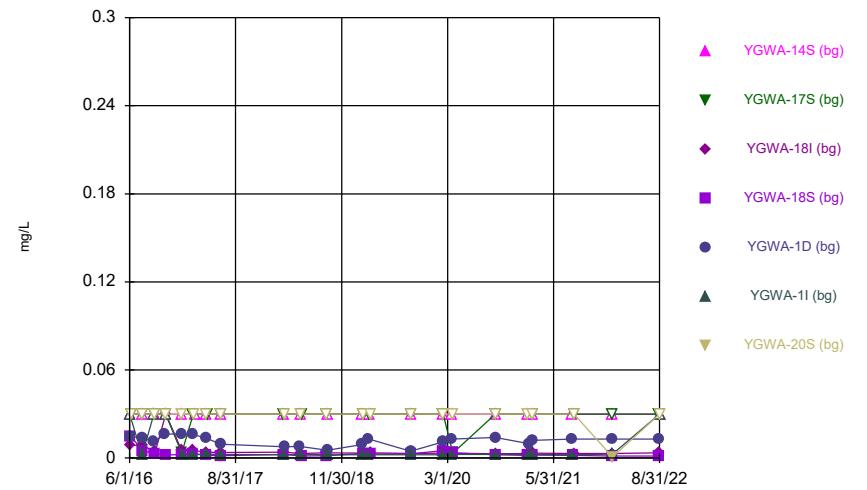
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



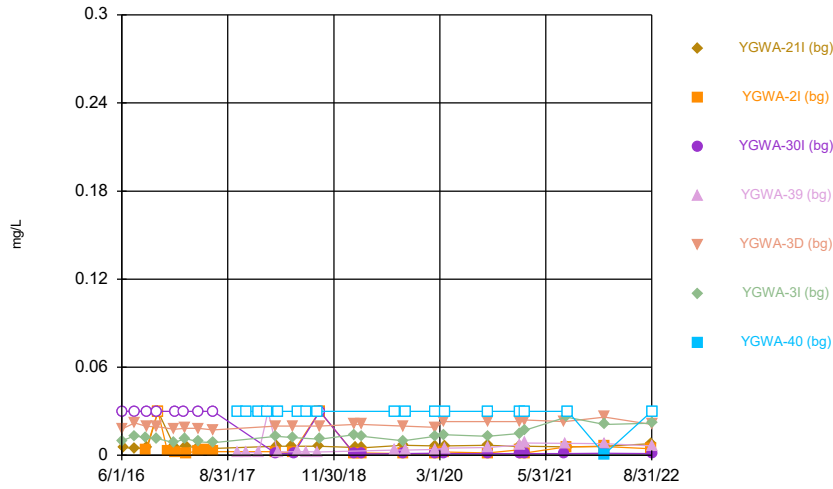
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



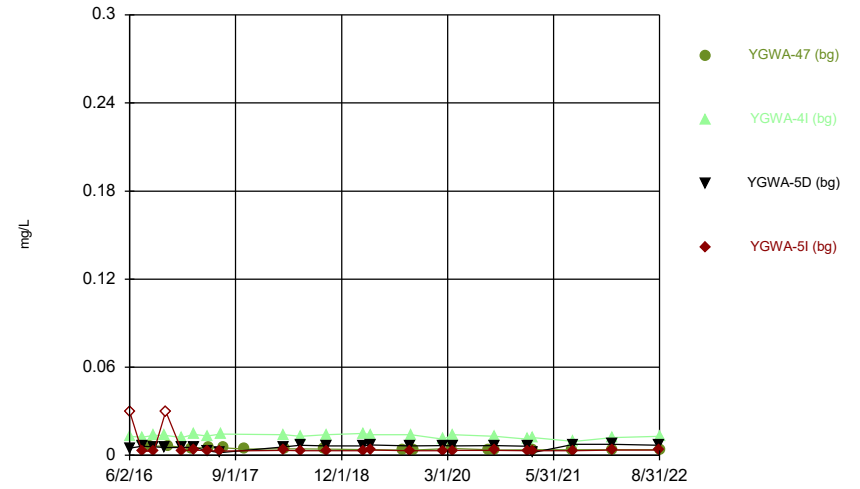
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Time Series



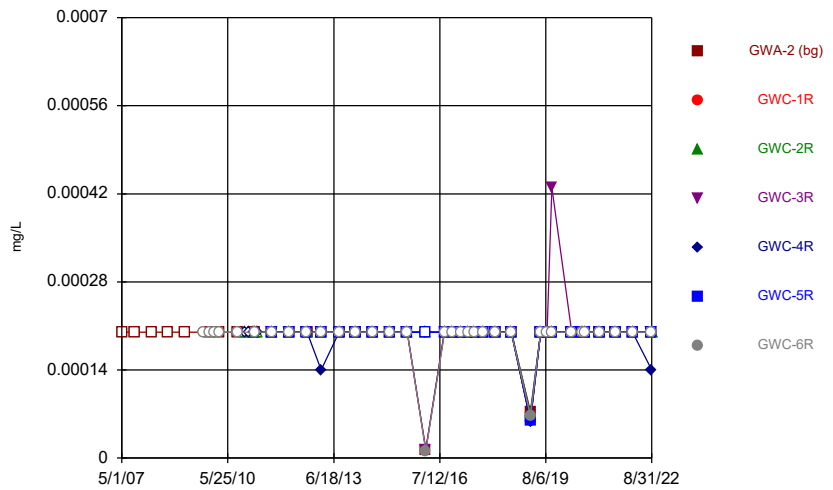
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



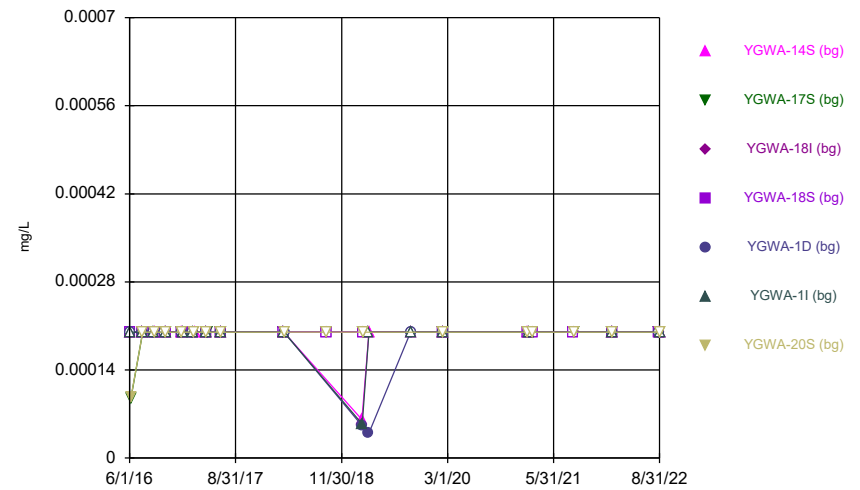
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Time Series



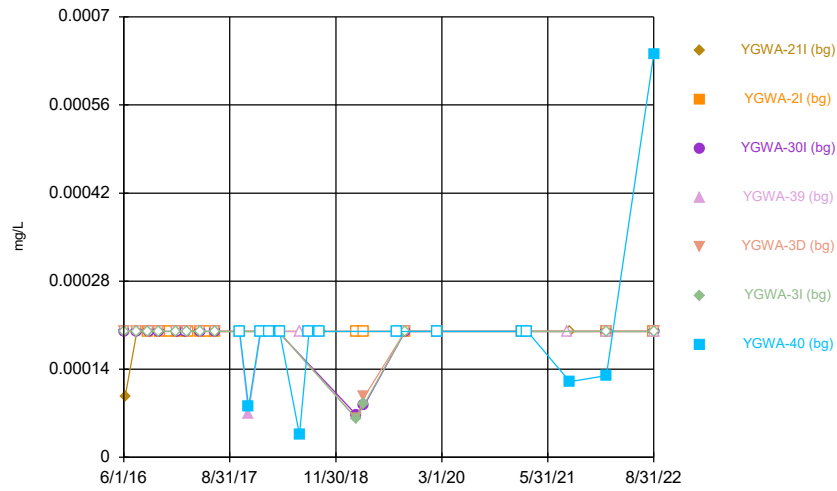
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



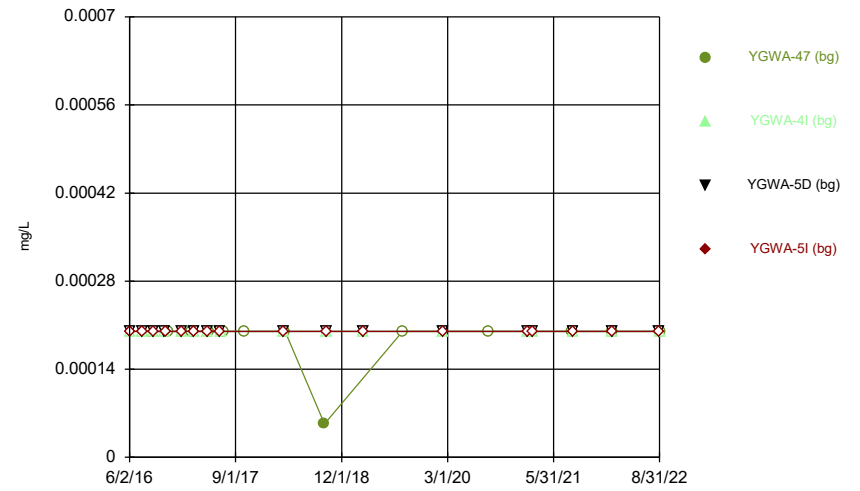
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Time Series



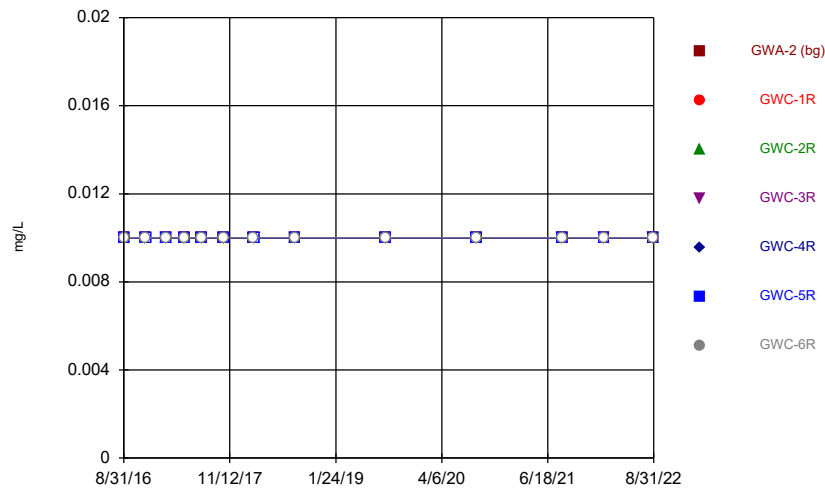
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



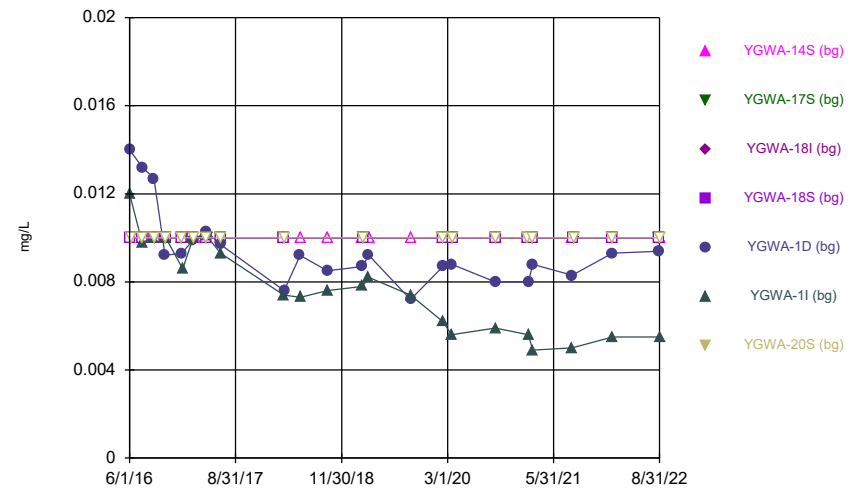
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



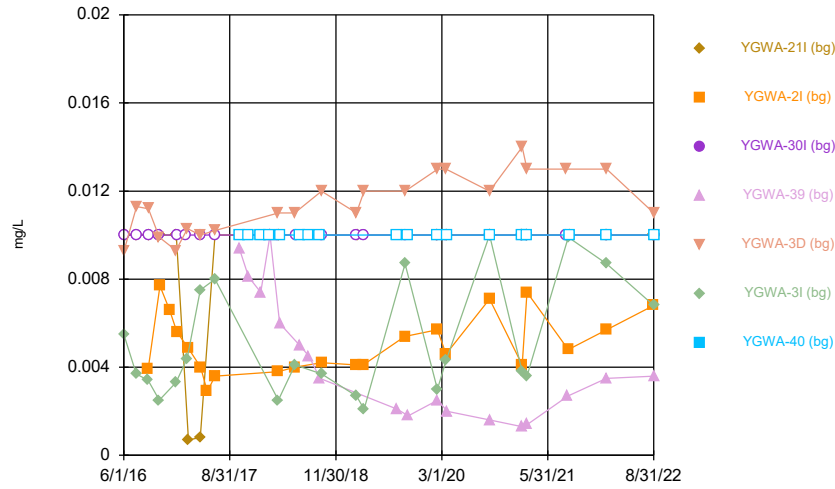
Constituent: Molybdenum Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



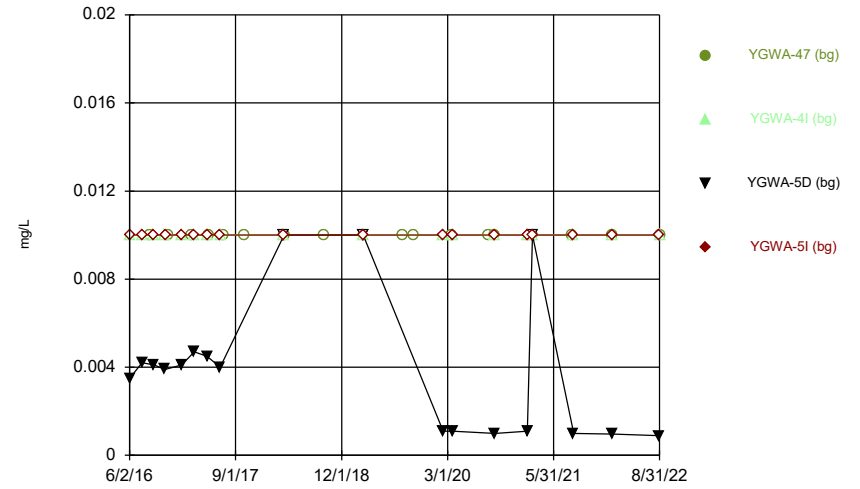
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



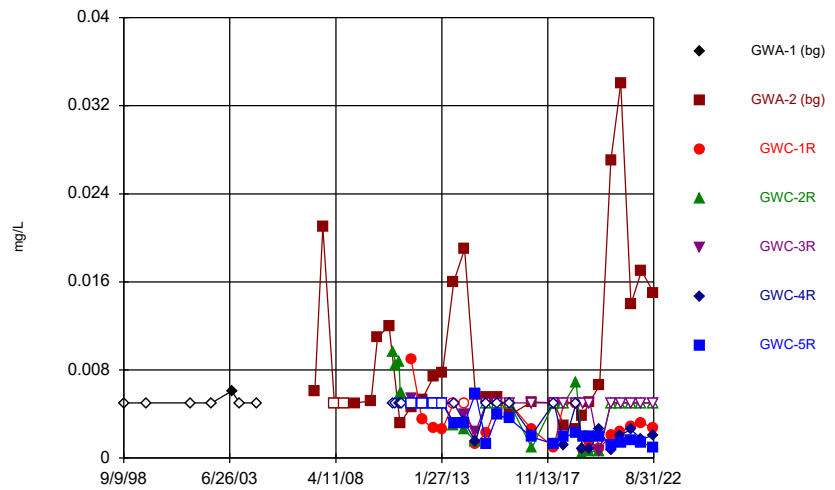
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



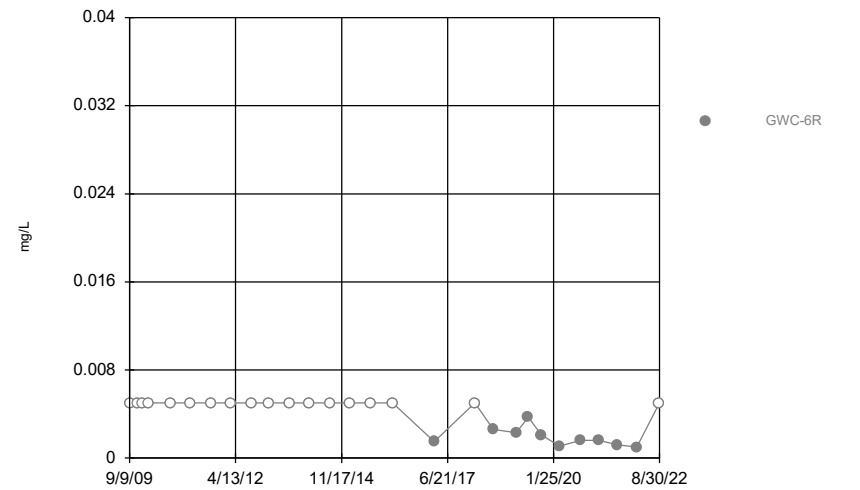
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



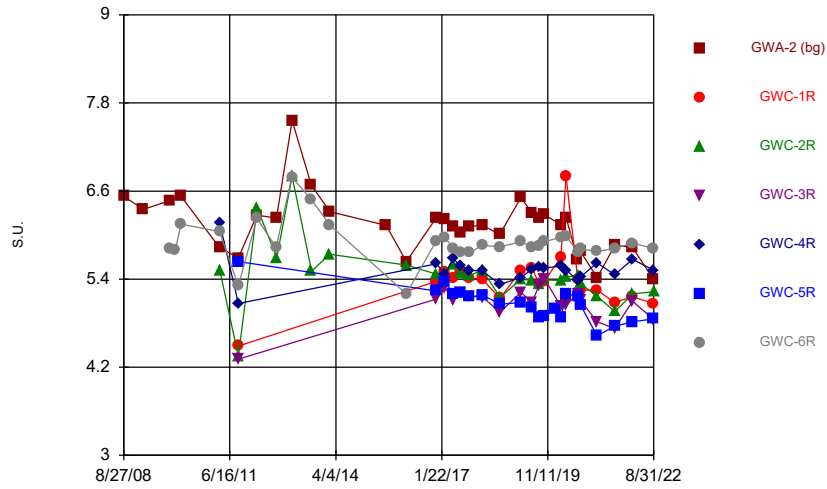
Constituent: Nickel Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



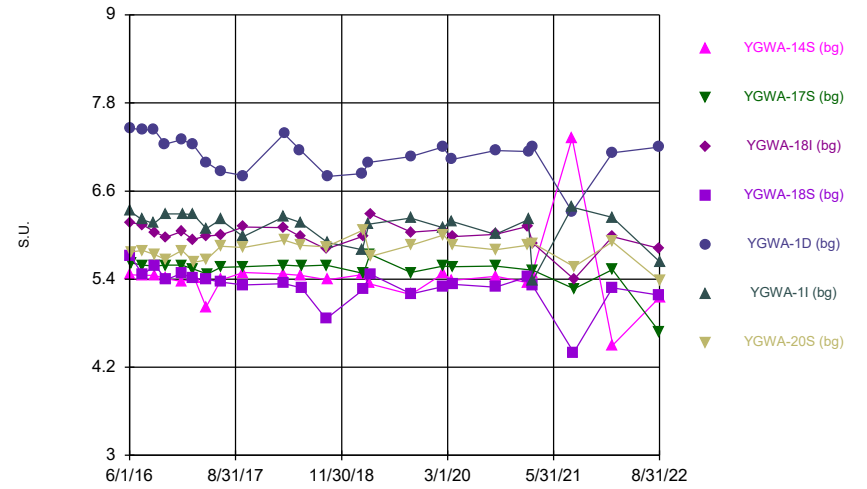
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Time Series



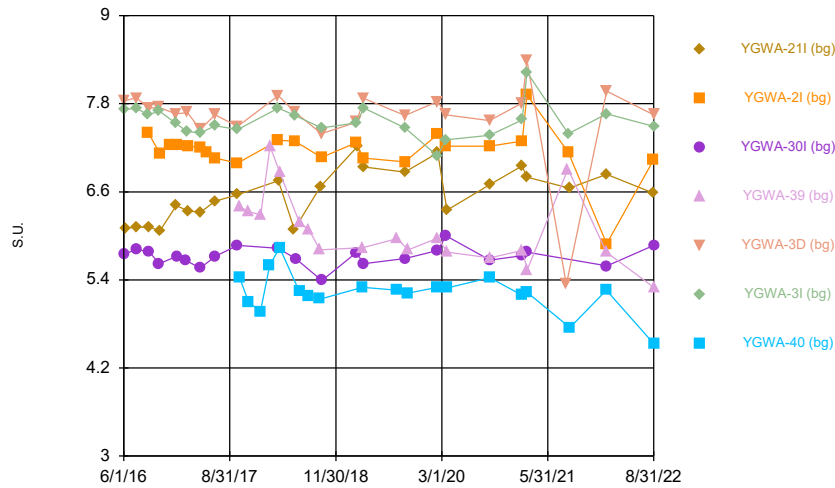
Constituent: pH Analysis Run 10/21/2022 2:54 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



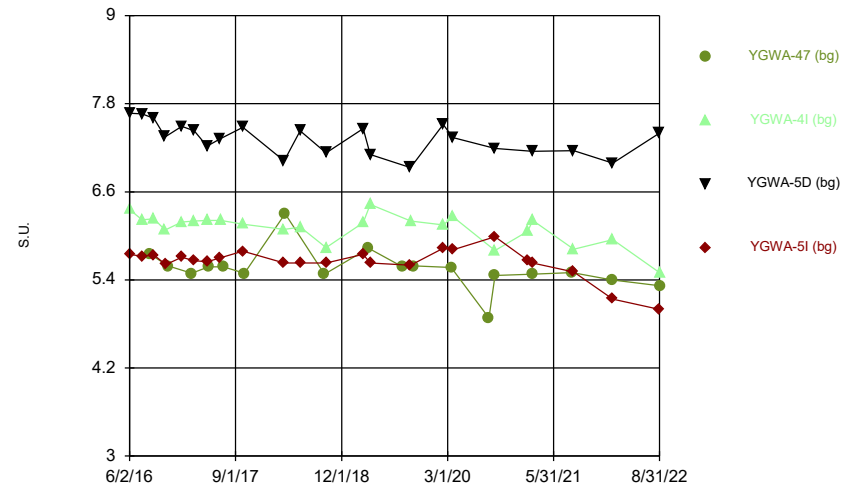
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: pH Analysis Run 10/21/2022 2:54 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

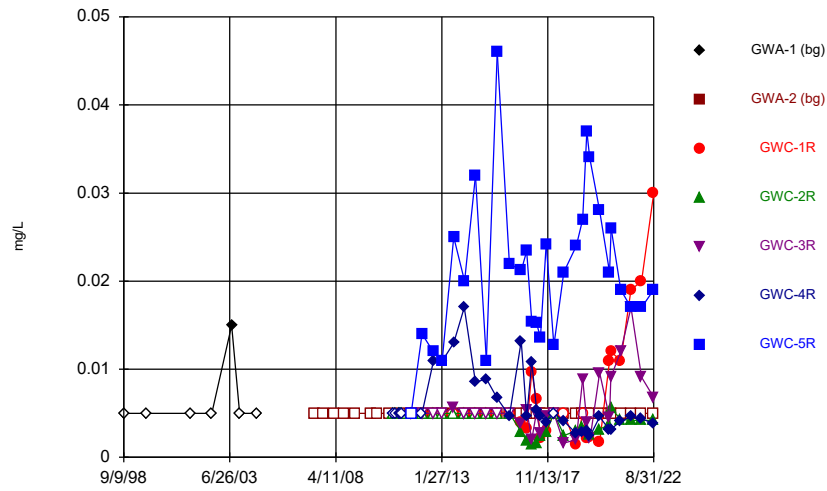
Time Series



Constituent: pH Analysis Run 10/21/2022 2:54 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

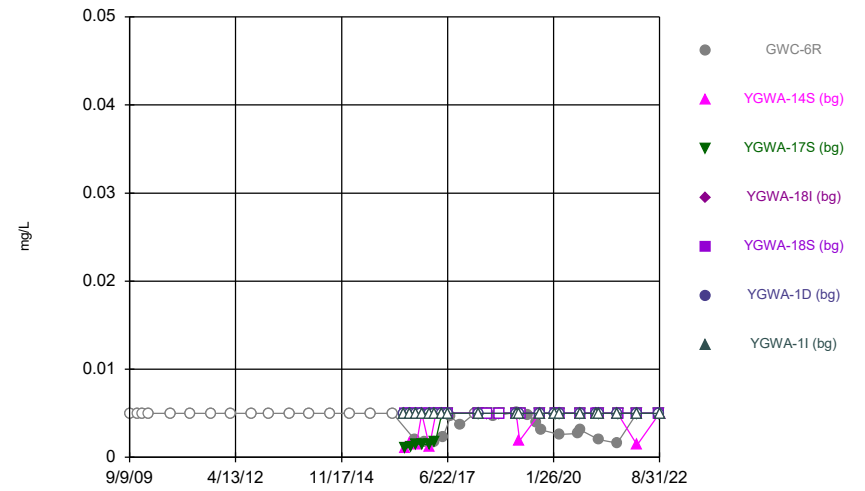
Time Series



Constituent: Selenium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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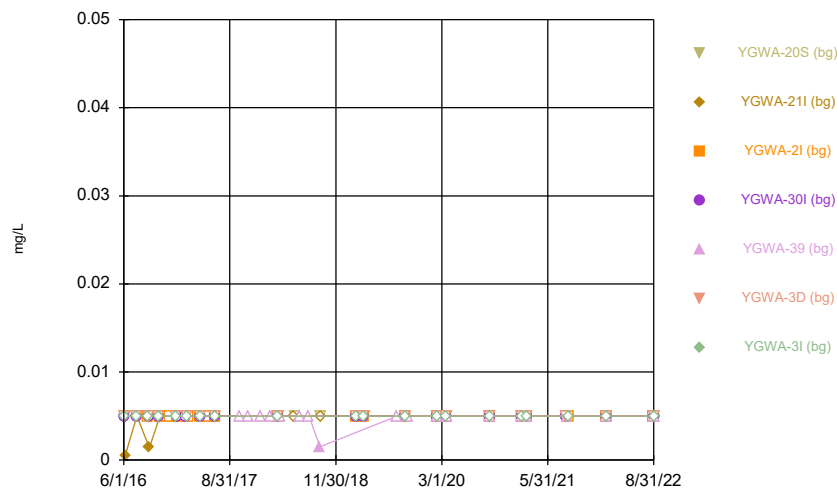
Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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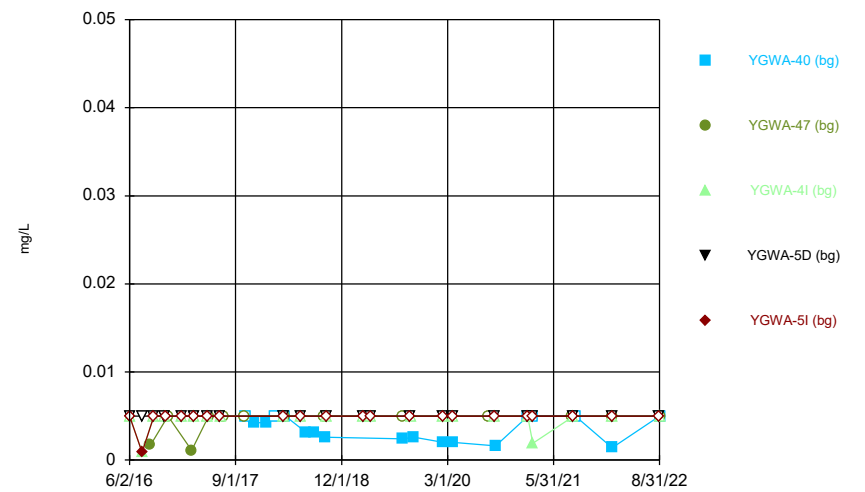
Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

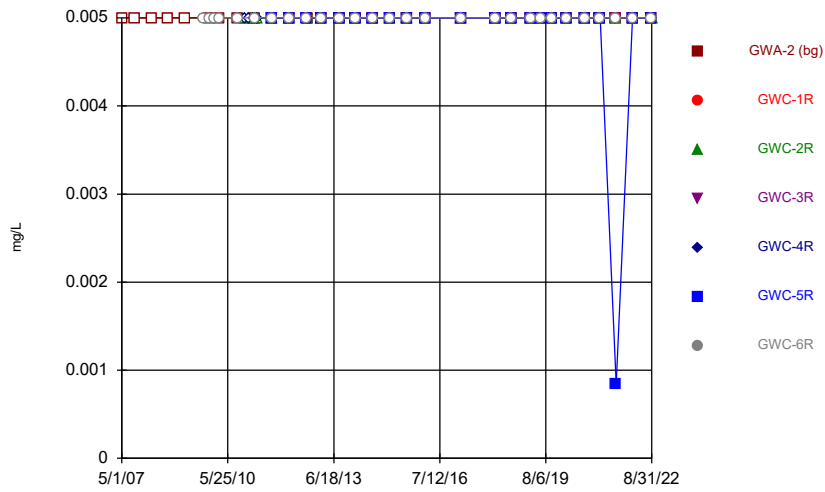
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Time Series

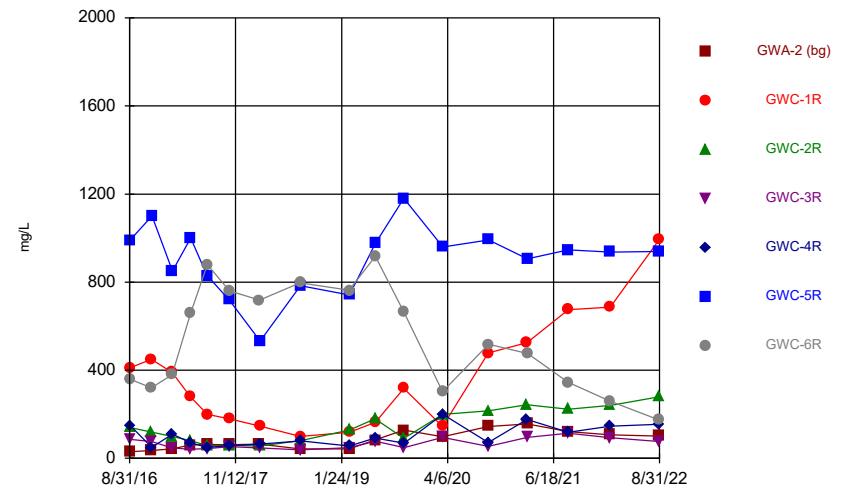


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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

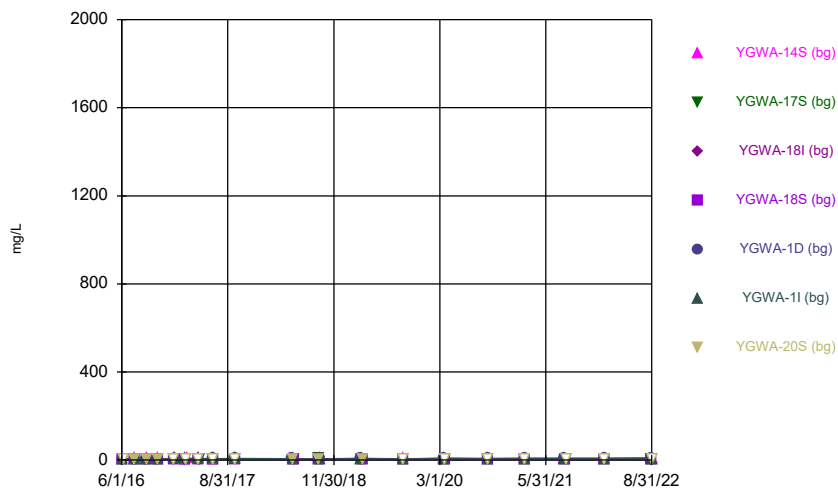
Time Series



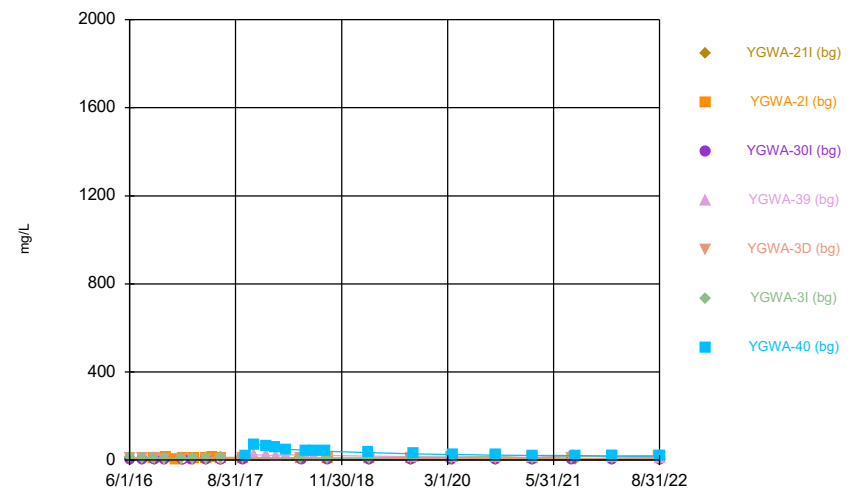
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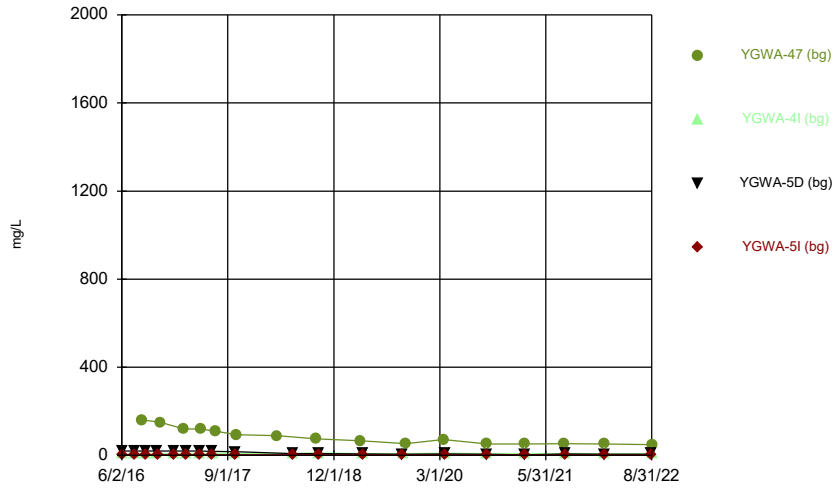
Time Series



Time Series

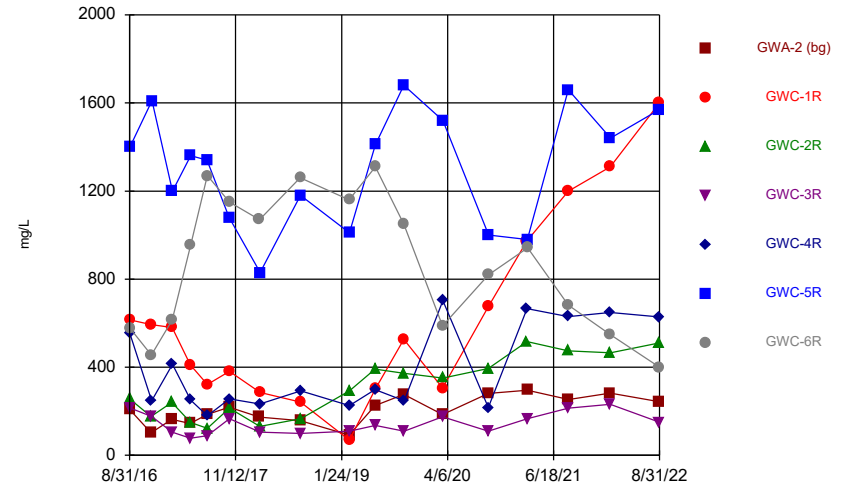


Time Series



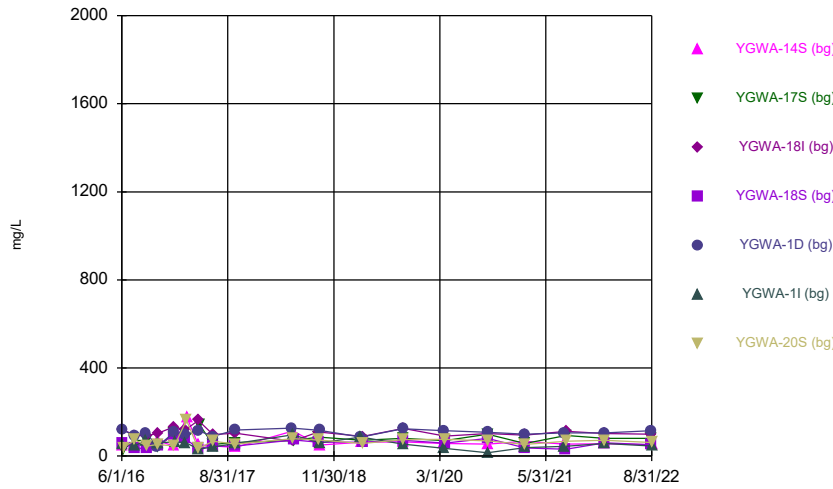
Constituent: Sulfate Analysis Run 10/21/2022 2:54 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: TDS Analysis Run 10/21/2022 2:54 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

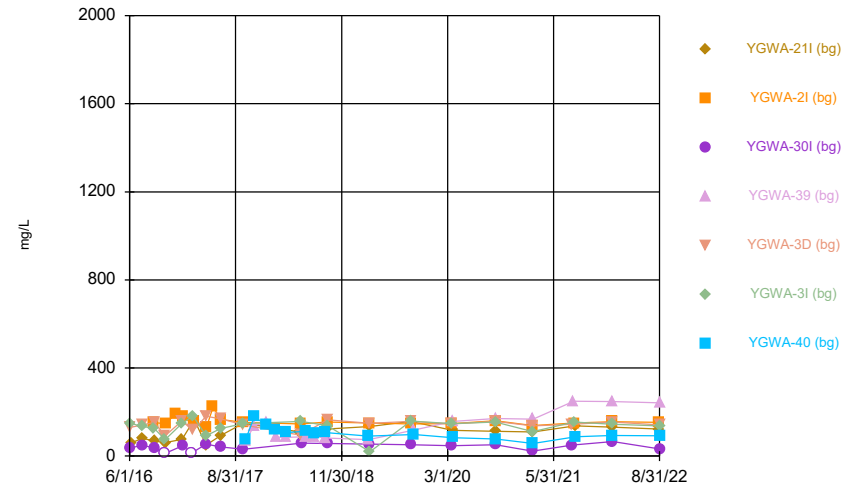
Time Series



Constituent: TDS Analysis Run 10/21/2022 2:54 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

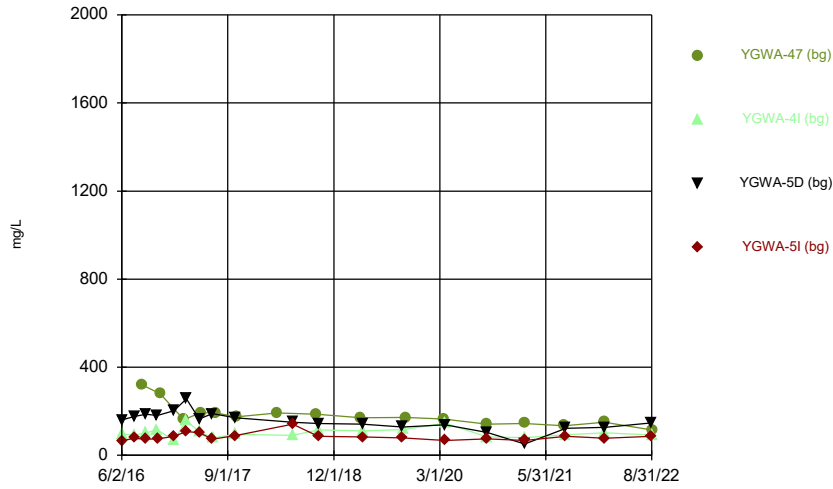
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Time Series



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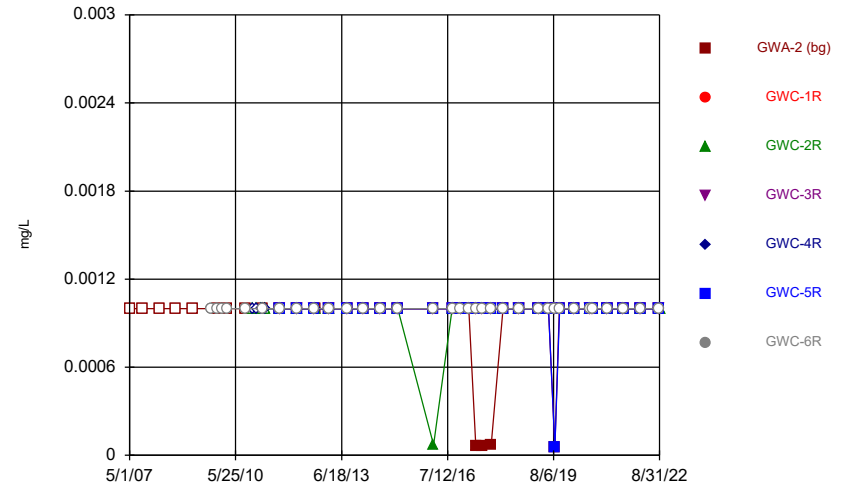
Time Series



Constituent: TDS Analysis Run 10/21/2022 2:54 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

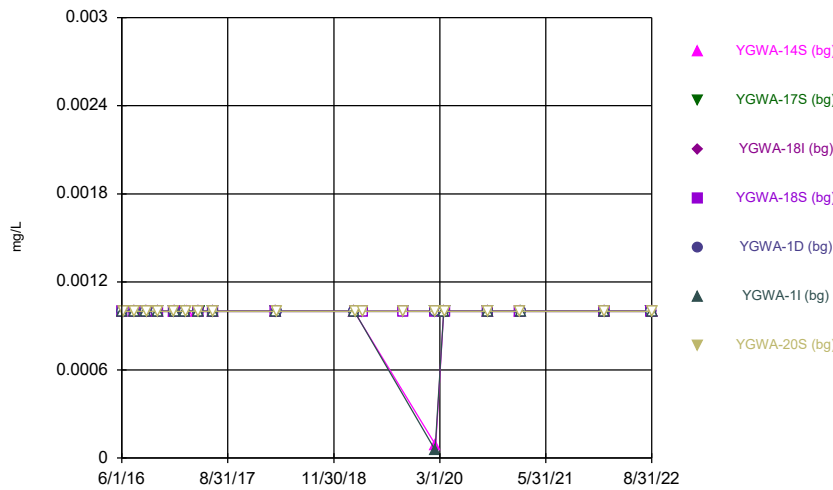
Time Series



Constituent: Thallium Analysis Run 10/21/2022 2:54 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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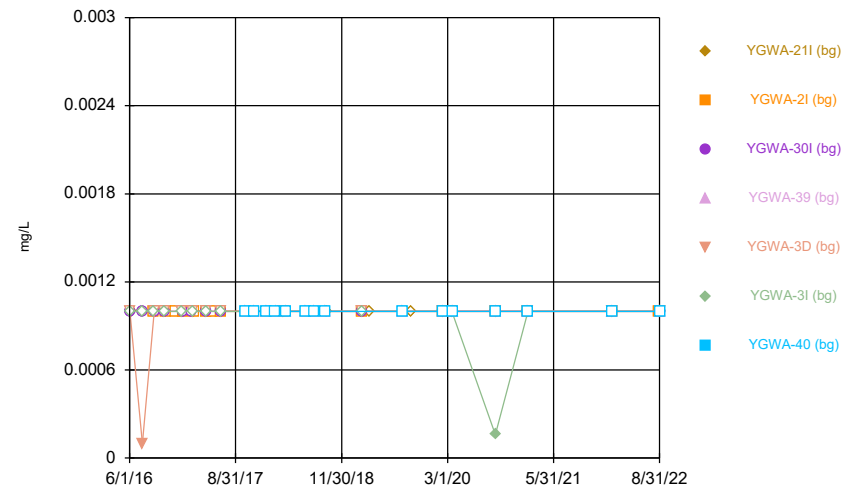
Time Series



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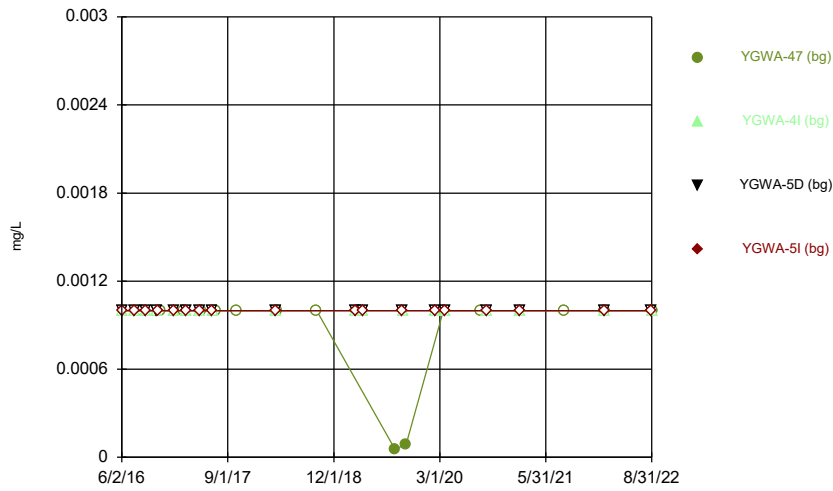
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Time Series



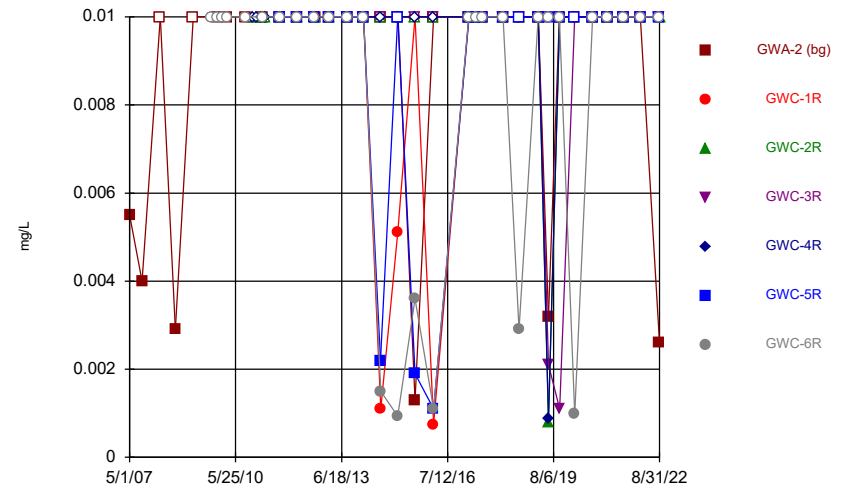
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



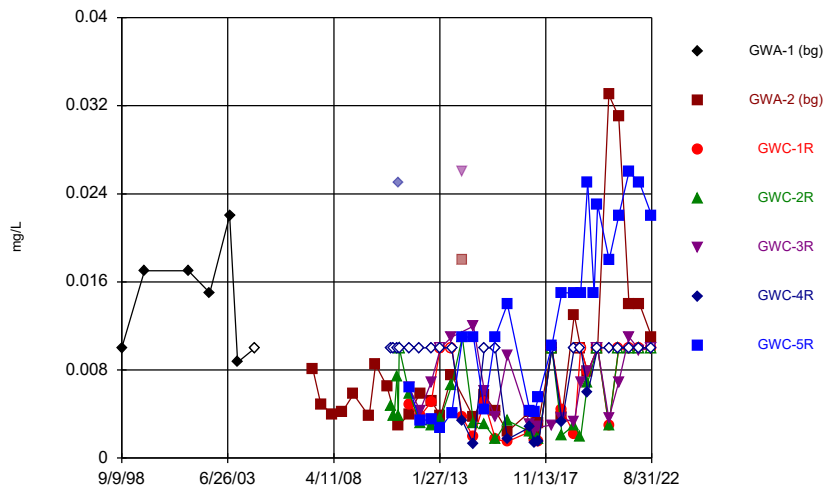
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



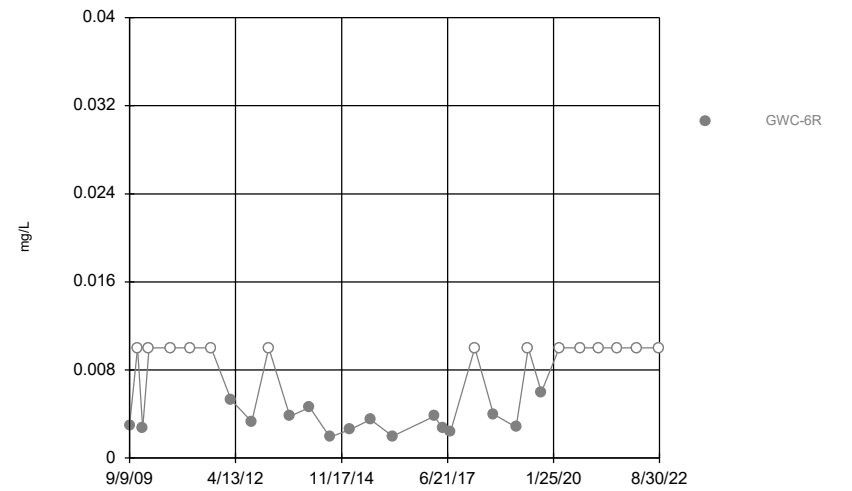
Constituent: Vanadium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: Zinc Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: Zinc Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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9/11/2007	<0.003						
3/20/2008	<0.003						
8/27/2008	<0.003						
3/3/2009	<0.003						
9/9/2009							<0.003
11/18/2009	<0.003						<0.003
1/5/2010							<0.003
3/3/2010	<0.003						<0.003
9/7/2010							<0.003
9/8/2010	<0.003						
11/22/2010			<0.003		<0.003		
1/4/2011			<0.003		<0.003		
2/17/2011			<0.003		<0.003		
3/10/2011	<0.003						<0.003
3/11/2011			<0.003		<0.003		
3/28/2011			<0.003		<0.003		
9/7/2011			<0.003	<0.003	<0.003	<0.003	
9/8/2011	<0.003	<0.003					<0.003
3/4/2012					<0.003		
3/5/2012	<0.003	<0.003		<0.003		<0.003	<0.003
3/6/2012			<0.003				
9/5/2012		<0.003		<0.003		<0.003	<0.003
9/10/2012	<0.003				<0.003		
9/11/2012			<0.003				
2/5/2013		<0.003				<0.003	<0.003
2/6/2013	<0.003		<0.003	<0.003	<0.003		
8/12/2013	<0.003						
8/13/2013		<0.003	<0.003	<0.003			<0.003
8/14/2013					<0.003	<0.003	
2/4/2014		<0.003	<0.003		<0.003		<0.003
2/5/2014	<0.003			<0.003		<0.003	
8/4/2014				<0.003	<0.003	<0.003	
8/5/2014	<0.003	<0.003	<0.003				<0.003
2/2/2015		<0.003	<0.003		<0.003		
2/3/2015				<0.003		<0.003	<0.003
2/4/2015	<0.003						
8/3/2015	<0.003			<0.003 (D)	<0.003 (D)	<0.003 (D)	
8/4/2015		<0.003 (D)	<0.003				<0.003
2/16/2016	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003
2/17/2016			<0.003				
8/31/2016	<0.003	<0.003	<0.003	<0.003			
9/1/2016					0.0014 (J)	<0.003	<0.003
11/28/2016	0.0014 (J)		<0.003				
11/29/2016		<0.003					<0.003
11/30/2016				<0.003	<0.003		
12/1/2016						<0.003	
2/22/2017	<0.003		<0.003				
2/23/2017		<0.003		<0.003			<0.003
2/24/2017					<0.003	<0.003	
5/8/2017	<0.003						
5/9/2017		<0.003		<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.003		<0.003	<0.003	<0.003
7/17/2017	<0.003					<0.003	
7/18/2017		<0.003	<0.003	<0.003	<0.003		<0.003
10/16/2017	<0.003					<0.003	
10/17/2017		<0.003	<0.003		<0.003		
10/18/2017				<0.003			<0.003
2/19/2018	<0.003						<0.003
2/20/2018			<0.003		<0.003		
2/21/2018		<0.003		<0.003		<0.003	
8/6/2018	<0.003						<0.003
8/7/2018		<0.003		<0.003		<0.003	
8/8/2018			<0.003		<0.003		
2/25/2019	<0.003						<0.003
2/26/2019		<0.003	<0.003	<0.003	<0.003	<0.003	
6/12/2019	<0.003		<0.003		0.00028 (J)		
6/13/2019		<0.003		<0.003		<0.003	<0.003
8/19/2019	<0.003				<0.003		
8/20/2019		<0.003	<0.003				<0.003
8/21/2019				<0.003		0.00054 (J)	
10/8/2019	<0.003						<0.003
10/9/2019		<0.003	<0.003			<0.003	
10/10/2019				<0.003	<0.003		
3/17/2020	<0.003	<0.003		<0.003			<0.003
3/18/2020			<0.003		<0.003	<0.003	
8/26/2020	0.00042 (J)						
8/27/2020		<0.003				<0.003	<0.003
8/28/2020			<0.003	<0.003	<0.003		
9/22/2020	0.00044 (J)	<0.003	0.0017 (J)	<0.003	0.00053 (J)		
9/23/2020						0.00031 (J)	<0.003
3/1/2021		<0.003	<0.003		<0.003		
3/2/2021	<0.003			<0.003		<0.003	
3/3/2021							<0.003
8/18/2021		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/20/2021	<0.003						
2/8/2022	<0.003	<0.003		<0.003	0.0017 (J)		<0.003
2/9/2022			<0.003			<0.003	
8/30/2022	<0.003	<0.003		<0.003	0.00094 (J)	<0.003	<0.003
8/31/2022			<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.003	<0.003	
6/2/2016	<0.003						
6/6/2016			<0.003	<0.003			
6/7/2016		<0.003					<0.003
7/25/2016						<0.003	
7/26/2016	0.0005 (J)				0.001 (J)		
7/27/2016		<0.003	0.0005 (J)	<0.003			<0.003
9/13/2016					0.001 (J)	<0.003	
9/15/2016	<0.003						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003				<0.003
11/1/2016					0.0015 (J)		
11/2/2016	<0.003						<0.003
11/3/2016		<0.003	<0.003	<0.003			
11/4/2016						<0.003	
1/10/2017	<0.003						
1/11/2017		<0.003	<0.003	<0.003	<0.003		
1/13/2017							<0.003
1/16/2017						<0.003	
3/1/2017			<0.003	<0.003			
3/2/2017		<0.003			0.0004 (J)	<0.003	
3/6/2017							<0.003
3/8/2017	<0.003						
4/26/2017	<0.003		<0.003	<0.003			<0.003
4/27/2017					0.0004 (J)	0.0017 (J)	
5/2/2017		<0.003					
6/27/2017					<0.003	<0.003	
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003					<0.003
6/30/2017	<0.003						
3/27/2018	<0.003					<0.003	
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003		<0.003
2/26/2019	<0.003						
2/27/2019					<0.003	<0.003	
3/5/2019		<0.003		<0.003			<0.003
3/6/2019			<0.003				
4/2/2019		<0.003					
4/3/2019			<0.003	<0.003			<0.003
9/25/2019		<0.003					<0.003
9/26/2019			0.00056 (J)	<0.003			
2/10/2020					0.00088 (J)	<0.003	
2/11/2020		<0.003	<0.003	<0.003			
2/12/2020	<0.003						<0.003
3/18/2020	<0.003					0.0004 (J)	
3/19/2020					<0.003		
3/24/2020		<0.003	<0.003	<0.003			<0.003
9/23/2020		<0.003	<0.003	<0.003	<0.003	<0.003	
9/24/2020							<0.003
9/25/2020	<0.003						
2/9/2021			<0.003	<0.003			0.00032 (J)
2/10/2021	<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/12/2021					<0.003	<0.003	
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003	<0.003	<0.003
8/19/2021	<0.003				<0.003	<0.003	
8/26/2021				<0.003			
8/27/2021		<0.003	<0.003				<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003						
8/30/2022		<0.003	<0.003	<0.003	<0.003		
8/31/2022	<0.003					<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.003	
6/2/2016			<0.003		<0.003		
6/7/2016	<0.003						
7/25/2016			<0.003			<0.003	
7/26/2016					0.002 (J)		
7/28/2016	<0.003						
9/14/2016		<0.003				<0.003	
9/15/2016					0.0027 (J)		
9/19/2016	0.001 (J)		<0.003				
11/1/2016			<0.003		<0.003	<0.003	
11/3/2016	<0.003						
11/4/2016		<0.003					
12/15/2016		0.0012 (J)					
1/11/2017					<0.003	<0.003	
1/13/2017	<0.003						
1/16/2017		<0.003	<0.003				
2/21/2017			<0.003				
3/1/2017						<0.003	
3/2/2017					0.0008 (J)		
3/3/2017		<0.003					
3/6/2017	0.0005 (J)						
4/26/2017	<0.003		<0.003		<0.003	<0.003	
4/28/2017		0.0015 (J)					
5/26/2017		0.0005 (J)					
6/28/2017		<0.003			<0.003	<0.003	
6/29/2017	<0.003						
6/30/2017			<0.003				
10/11/2017				0.0006 (J)			
10/12/2017							<0.003
11/20/2017				<0.003			<0.003
1/10/2018							<0.003
1/11/2018				<0.003			
2/19/2018							<0.003
2/20/2018				<0.003			
3/27/2018			<0.003				
3/28/2018		<0.003			<0.003	<0.003	
3/29/2018	<0.003						
4/3/2018				<0.003			<0.003
6/28/2018				<0.003			<0.003
8/7/2018				<0.003			<0.003
9/24/2018				<0.003			<0.003
2/26/2019			<0.003				
2/27/2019		<0.003			<0.003	<0.003	
3/5/2019	0.0011 (J)						
4/2/2019	0.0011 (J)						
8/21/2019				<0.003			<0.003
9/24/2019	0.0035						
2/11/2020		0.00036 (J)				<0.003	
2/12/2020	0.0015 (J)		<0.003	<0.003	<0.003		<0.003
3/19/2020		0.0003 (J)	<0.003		0.00064 (J)	<0.003	
3/24/2020	0.0017 (J)						<0.003
3/25/2020				0.0014 (J)			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/23/2020		<0.003			<0.003	<0.003	
9/24/2020	0.0047		<0.003	<0.003			<0.003
2/9/2021	0.0013 (J)						
2/10/2021		0.0013 (J)		<0.003	<0.003	<0.003	<0.003
2/11/2021			<0.003				
3/1/2021			<0.003				
3/3/2021		<0.003			<0.003	<0.003	
3/4/2021	0.0014 (J)			<0.003			<0.003
8/19/2021			<0.003		<0.003		
8/26/2021				<0.003			
8/27/2021		<0.003				<0.003	
9/1/2021	<0.003						
9/3/2021							<0.003
2/8/2022				<0.003			<0.003
2/9/2022	<0.003	<0.003			0.0018 (J)	<0.003	
2/11/2022			<0.003				
8/30/2022	0.0046	<0.003					
8/31/2022			<0.003	<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.003	<0.003	<0.003
7/26/2016		0.0003 (J)	<0.003	<0.003
8/30/2016	0.0028 (J)			
9/14/2016		<0.003	<0.003	<0.003
11/2/2016		<0.003	<0.003	
11/4/2016				<0.003
11/14/2016	<0.003			
1/12/2017			<0.003	<0.003
1/13/2017		<0.003		
2/24/2017	<0.003			
3/6/2017		<0.003		
3/7/2017			<0.003	<0.003
5/1/2017		<0.003	<0.003	
5/2/2017				<0.003
5/8/2017	0.0004 (J)			
6/27/2017			<0.003	<0.003
6/29/2017		<0.003		
7/11/2017	0.0006 (J)			
10/10/2017	<0.003			
3/29/2018		<0.003	<0.003	<0.003
4/2/2018	<0.003			
9/19/2018	<0.003			
3/4/2019		<0.003	<0.003	<0.003
4/3/2019		<0.003	<0.003	<0.003
8/20/2019	<0.003			
9/24/2019			<0.003	<0.003
9/25/2019		<0.003		
2/12/2020		<0.003	<0.003	<0.003
3/24/2020			<0.003	<0.003
3/25/2020		<0.003		
8/27/2020	0.00048 (J)			
9/22/2020	<0.003	<0.003	<0.003	<0.003
2/8/2021			<0.003	<0.003
2/9/2021		<0.003		
3/1/2021	0.00048 (J)			
3/2/2021			<0.003	<0.003
3/3/2021		<0.003		
8/19/2021	<0.003			
8/26/2021		<0.003	<0.003	<0.003
2/8/2022	<0.003			
2/10/2022			<0.003	<0.003
2/11/2022		<0.003		
8/30/2022			<0.003	<0.003
8/31/2022	<0.003	<0.003		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	<0.005						
9/12/2001	<0.005						
9/3/2002	<0.005						
7/29/2003	<0.005						
12/5/2003	<0.005						
9/22/2004	<0.005						
5/1/2007		<0.005					
9/11/2007		<0.005					
3/20/2008		<0.005					
8/27/2008		<0.005					
3/3/2009		<0.005					
11/18/2009		<0.005					
3/3/2010		<0.005					
9/8/2010		<0.005					
11/22/2010				<0.005		<0.005	
1/4/2011				<0.005		<0.005	
2/17/2011				<0.005		<0.005	
3/10/2011		<0.005					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.005
9/8/2011		<0.005	<0.005				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<0.005		<0.005		<0.005
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<0.005				<0.005
2/6/2013		<0.005		<0.005	<0.005	<0.005	
8/12/2013		<0.005					
8/13/2013			<0.005	<0.005	<0.005		
8/14/2013						<0.005	<0.005
2/4/2014			<0.005	<0.005		<0.005	
2/5/2014		<0.005			<0.005		<0.005
8/4/2014					<0.005	<0.005	<0.005
8/5/2014		<0.005	<0.005	<0.005			
2/2/2015			<0.005	<0.005		<0.005	
2/3/2015					<0.005		<0.005
2/4/2015		<0.005					
8/3/2015		<0.005			<0.005 (D)	<0.005 (D)	<0.005 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		<0.005	<0.005		<0.005	<0.005	<0.005
2/17/2016				<0.005			
8/31/2016		<0.005	<0.005	<0.005	<0.005		
9/1/2016						<0.005	<0.005
11/28/2016		<0.005		<0.005			
11/29/2016			<0.005				
11/30/2016					<0.005	<0.005	
12/1/2016							<0.005
2/22/2017		<0.005		<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			<0.005		<0.005		
2/24/2017						<0.005	<0.005
5/8/2017		<0.005					
5/9/2017			0.0005 (J)		<0.005		
5/10/2017				<0.005		<0.005	0.0011 (J)
7/17/2017		<0.005					0.0013 (J)
7/18/2017			<0.005	<0.005	<0.005	<0.005	
10/16/2017		<0.005					0.0011 (J)
10/17/2017			0.0009 (J)	<0.005		<0.005	
10/18/2017					<0.005		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		0.00091 (J)
8/6/2018		<0.005					
8/7/2018			<0.005		<0.005		0.0021 (J)
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.00069 (J)
6/12/2019		0.00038 (J)		<0.005		0.00037 (J)	
6/13/2019			<0.005		0.0016 (J)		0.0012 (J)
8/19/2019		0.00095 (J)				0.00059 (J)	
8/20/2019			0.00044 (J)	0.00075 (J)			
8/21/2019					0.00061 (J)		0.00094 (J)
10/8/2019		<0.005					
10/9/2019			<0.005	<0.005			0.0012 (J)
10/10/2019					<0.005	<0.005	
3/17/2020		<0.005	<0.005		0.0016 (J)		
3/18/2020				<0.005		<0.005	0.0008 (J)
8/26/2020		<0.005					
8/27/2020			0.0011 (J)				0.0016 (J)
8/28/2020				<0.005	<0.005	<0.005	
9/22/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
9/23/2020							0.00092 (J)
3/1/2021			0.0022 (J)	0.0011 (J)		<0.005	
3/2/2021		<0.005			0.0017 (J)		0.0024 (J)
8/18/2021			0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)
8/20/2021		<0.005					
2/8/2022		0.0033 (J)	0.0026 (J)		0.0015 (J)	0.0013 (J)	
2/9/2022				<0.005			0.0034 (J)
8/30/2022		0.0024 (J)	0.0035 (J)		<0.005	<0.005	0.0035 (J)
8/31/2022				<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.005						
11/18/2009	<0.005						
1/5/2010	<0.005						
3/3/2010	<0.005						
9/7/2010	<0.005						
3/10/2011	<0.005						
9/8/2011	<0.005						
3/5/2012	<0.005						
9/5/2012	<0.005						
2/5/2013	<0.005						
8/13/2013	<0.005						
2/4/2014	<0.005						
8/5/2014	<0.005						
2/3/2015	<0.005						
8/4/2015	<0.005						
2/16/2016	<0.005						
6/1/2016						0.0021	<0.005
6/2/2016		<0.005					
6/6/2016				<0.005	<0.005		
6/7/2016			<0.005				
7/25/2016							<0.005
7/26/2016		<0.005				0.0016 (J)	
7/27/2016			<0.005	<0.005	<0.005		
9/1/2016	<0.005						
9/13/2016						<0.005	<0.005
9/15/2016		<0.005					
9/16/2016			<0.005		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	<0.005						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	0.0017 (J)	
1/16/2017							<0.005
2/23/2017	<0.005						
3/1/2017				<0.005	<0.005		
3/2/2017			<0.005			0.0014 (J)	<0.005
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						0.0018 (J)	<0.005
5/2/2017			<0.005				
5/10/2017	0.0007 (J)						
6/27/2017						0.0018 (J)	<0.005
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	0.001 (J)						
10/18/2017	0.0011 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	0.00061 (J)		
3/29/2018						0.0017 (J)	
6/5/2018						0.0013 (J)	
6/6/2018							<0.005
6/7/2018				0.00066 (J)			
6/8/2018		<0.005					
6/11/2018			<0.005		<0.005		
8/6/2018	0.0023 (J)						
9/25/2018			<0.005	<0.005	<0.005		
10/1/2018		<0.005				0.0016 (J)	<0.005
2/25/2019	0.00073 (J)						
2/26/2019		<0.005					
2/27/2019						0.0015 (J)	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						0.00072 (J)	<0.005
3/29/2019		<0.005					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	0.00068 (J)						
8/20/2019	0.00072 (J)						
9/24/2019						0.0014 (J)	<0.005
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	0.00056 (J)						
2/10/2020						0.0026 (J)	0.0005 (J)
2/11/2020			0.0022 (J)	0.0014 (J)	0.0026 (J)		
2/12/2020		<0.005					
3/17/2020	<0.005						
3/18/2020		<0.005					<0.005
3/19/2020						0.00095 (J)	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	0.0011 (J)						
9/23/2020	<0.005		<0.005	<0.005	<0.005	0.0011 (J)	<0.005
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2021	<0.005						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0031 (J)	0.0033 (J)
2/10/2022		0.0016 (J)					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		<0.005	
6/7/2016	<0.005	<0.005					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	<0.005		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			0.0017 (J)				
12/15/2016			0.0023 (J)				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			0.0018 (J)	<0.005			
2/21/2017				<0.005			
3/1/2017							0.0004 (J)
3/2/2017						<0.005	
3/3/2017			0.0016 (J)				
3/6/2017	<0.005	0.0017 (J)					
4/26/2017	<0.005	<0.005		<0.005		<0.005	<0.005
4/28/2017			0.002 (J)				
5/26/2017			0.0005 (J)				
6/28/2017			0.0016 (J)			0.0007 (J)	0.0011 (J)
6/29/2017	<0.005	<0.005					
6/30/2017				<0.005			
10/11/2017					0.0009 (J)		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			0.0013 (J)			<0.005	<0.005
3/29/2018	<0.005	0.0015 (J)					
4/3/2018					<0.005		
6/5/2018		0.0013 (J)					
6/6/2018	<0.005						
6/7/2018			0.00082 (J)			<0.005	
6/8/2018							<0.005
6/11/2018				<0.005			
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
9/25/2018	<0.005	0.0022 (J)					
10/1/2018			0.0011 (J)			<0.005	<0.005
10/2/2018				<0.005			
2/26/2019				<0.005			
2/27/2019			0.001 (J)			<0.005	<0.005
3/5/2019	<0.005	0.0013 (J)					
3/29/2019			0.00063 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				<0.005		<0.005	<0.005
4/2/2019		0.00096 (J)					
4/3/2019	<0.005						
8/21/2019					0.00058 (J)		
9/24/2019		0.0026 (J)	<0.005				
9/25/2019	<0.005			<0.005		<0.005	<0.005
10/9/2019					0.00063 (J)		
2/11/2020			0.0044 (J)				0.0041 (J)
2/12/2020	<0.005	0.0025 (J)		0.0032 (J)	0.00058 (J)	0.0038 (J)	
3/19/2020			0.00066 (J)	<0.005		<0.005	<0.005
3/24/2020	<0.005	0.0013 (J)					
3/25/2020					0.0012 (J)		
9/23/2020			0.001 (J)			<0.005	<0.005
9/24/2020	<0.005	0.0014 (J)		<0.005	<0.005		
2/9/2021	<0.005	0.001 (J)					
2/10/2021			<0.005		<0.005	0.00094 (J)	0.00078 (J)
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		0.00098 (J)			<0.005	<0.005
3/4/2021		0.00078 (J)			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					0.0034 (J)		
2/9/2022	0.0021 (J)	0.0036 (J)	0.0037 (J)			0.002 (J)	0.0018 (J)
2/11/2022				0.0014 (J)			
8/30/2022		0.0022 (J)	0.0027 (J)				
8/31/2022	<0.005			<0.005	0.0029 (J)	0.0028 (J)	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	0.00071 (J)	<0.005
7/26/2016			<0.005	0.001 (J)	<0.005
8/30/2016		<0.005			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		<0.005			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		<0.005			
3/6/2017			<0.005		
3/7/2017				0.0012 (J)	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				0.0019 (J)	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		0.0007 (J)			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	0.0006 (J)	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				0.0013 (J)	
6/7/2018			0.00059 (J)		<0.005
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		0.00072 (J)			
9/24/2018	<0.005				
9/26/2018			<0.005	0.0014 (J)	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	<0.005				
9/24/2019				0.00043 (J)	<0.005
9/25/2019			<0.005		
10/8/2019		<0.005			
10/9/2019	<0.005				
2/12/2020	0.0034 (J)		<0.005	0.0046 (J)	0.002 (J)
3/17/2020		<0.005			
3/24/2020	<0.005			0.00065 (J)	<0.005
3/25/2020			<0.005		
8/27/2020		<0.005			
9/22/2020		<0.005	<0.005	0.001 (J)	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				<0.005	<0.005
3/3/2021			<0.005		
3/4/2021	<0.005				
8/19/2021		<0.005			
8/26/2021			<0.005	0.0016 (J)	<0.005
9/3/2021	<0.005				
2/8/2022	0.003 (J)	0.0027 (J)			
2/10/2022				0.004 (J)	0.0016 (J)
2/11/2022			0.0014 (J)		
8/30/2022				0.0031 (J)	<0.005
8/31/2022	<0.005	<0.005	<0.005		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	0.006						
9/20/1999	0.015						
9/12/2001	0.018						
9/3/2002	0.023						
7/29/2003	0.02						
12/5/2003	0.012						
9/22/2004	0.03						
5/1/2007		0.032					
9/11/2007		0.017					
3/20/2008		0.025					
8/27/2008		0.041					
3/3/2009		0.053					
11/18/2009		0.05					
3/3/2010		0.061					
9/8/2010		0.071					
11/22/2010				0.12		0.03	
1/4/2011				0.1		0.065	
2/17/2011				0.1		0.061	
3/10/2011		0.057					
3/11/2011				0.05		0.066	
3/28/2011				0.087		0.04	
9/7/2011				0.065	0.025	0.041	0.02
9/8/2011		0.057	0.086				
3/4/2012						0.046	
3/5/2012		0.061	0.044		0.014		0.048
3/6/2012				0.049			
9/5/2012			0.034		0.0095		0.07
9/10/2012		0.055				0.084	
9/11/2012				0.045			
2/5/2013			0.03				0.068
2/6/2013		0.061		0.05	0.0094	0.042	
8/12/2013		0.055					
8/13/2013			0.027	0.13	0.13		
8/14/2013						0.042	0.036
2/4/2014			0.037	0.08		0.046	
2/5/2014		0.063			0.066		0.044
8/4/2014					0.043	0.027	0.058
8/5/2014		0.038	0.048	0.068			
2/2/2015			0.069	0.066		0.02	
2/3/2015					0.031		0.033
2/4/2015		0.039					
8/3/2015		0.031			0.039 (D)	0.017 (D)	0.037 (D)
8/4/2015			0.023 (D)	0.053			
2/16/2016		0.045	0.044		0.038	0.032	0.04
2/17/2016				0.059			
8/31/2016		0.0542	0.0711	0.0601	0.0286		
9/1/2016						0.0377	0.0345
11/28/2016		0.0529		0.0562			
11/29/2016			0.0754				
11/30/2016					0.0258	0.0148	
12/1/2016							0.0342
2/22/2017		0.0607		0.0481			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			0.0646		0.0278		
2/24/2017						0.029	0.0347
5/8/2017		0.065					
5/9/2017			0.0463		0.0308		
5/10/2017				0.0563		0.0182	0.0363
7/17/2017		0.06					0.0274
7/18/2017			0.039	0.049	0.0407	0.0187	
10/16/2017		0.0542					0.0151
10/17/2017			0.0349	0.047		0.0157	
10/18/2017					0.049		
2/19/2018		0.0533					
2/20/2018				0.0467		0.0151	
2/21/2018			0.0322		0.0285		0.0174
8/6/2018		0.044					
8/7/2018			0.025		0.029		0.015
8/8/2018				0.049		0.019	
2/25/2019		0.045					
2/26/2019			0.028	0.056	0.026	0.017	0.014
6/12/2019		0.063		0.046		0.017	
6/13/2019			0.033		0.021		0.014
8/19/2019		0.065				0.02	
8/20/2019			0.07	0.05			
8/21/2019					0.02		0.014
10/8/2019		0.058					
10/9/2019			0.054	0.045			0.015
10/10/2019					0.018	0.018	
3/17/2020		0.047	0.031		0.024		
3/18/2020				0.04		0.038	0.015
8/26/2020		0.044					
8/27/2020			0.072				0.013
8/28/2020				0.044	0.014	0.026	
9/22/2020		0.045	0.068	0.04	0.014	0.026	
9/23/2020							0.012
3/1/2021			0.063	0.043		0.035	
3/2/2021		0.039			0.015		0.011
8/18/2021			0.076	0.033	0.014	0.04	0.013
8/20/2021		0.036					
2/8/2022		0.037	0.066		0.013	0.031	
2/9/2022				0.038			0.011
8/30/2022		0.031	0.058		0.01	0.022	0.01
8/31/2022				0.026			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	0.025						
11/18/2009	0.025						
1/5/2010	0.018						
3/3/2010	0.022						
9/7/2010	0.019						
3/10/2011	0.017						
9/8/2011	0.019						
3/5/2012	0.027						
9/5/2012	0.04						
2/5/2013	0.056						
8/13/2013	0.07						
2/4/2014	0.051						
8/5/2014	0.041						
2/3/2015	0.04						
8/4/2015	0.042						
2/16/2016	0.068						
6/1/2016						0.008	0.012
6/2/2016		0.0081					
6/6/2016				0.028	0.019		
6/7/2016			0.012				
7/25/2016							0.0091 (J)
7/26/2016		0.0082 (J)				0.006 (J)	
7/27/2016			0.0126	0.0294	0.0167		
9/1/2016	0.0536						
9/13/2016						0.0084 (J)	0.008 (J)
9/15/2016		0.0087 (J)					
9/16/2016			0.0127		0.0168		
9/19/2016				0.0247			
11/1/2016						0.0062 (J)	
11/2/2016		0.0082 (J)					
11/3/2016			0.0128	0.0248	0.0159		
11/4/2016							0.0067 (J)
11/29/2016	0.0459						
1/10/2017		0.0086 (J)					
1/11/2017			0.0142	0.0266	0.0162	0.0069 (J)	
1/16/2017							0.0096 (J)
2/23/2017	0.0581						
3/1/2017				0.0275	0.0195		
3/2/2017			0.0155			0.0071 (J)	0.0112
3/8/2017		0.0088 (J)					
4/26/2017		0.0085 (J)		0.024	0.0182		
4/27/2017						0.0064 (J)	0.0106
5/2/2017			0.0138				
5/10/2017	0.0873						
6/27/2017						0.0054 (J)	0.0092 (J)
6/28/2017				0.0237	0.018		
6/29/2017			0.0128				
6/30/2017		0.0081 (J)					
7/18/2017	0.0994						
10/18/2017	0.0757						
2/19/2018	0.0703						
3/27/2018		<0.01					<0.01

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			0.014	0.024	0.021		
3/29/2018						<0.01	
6/5/2018						0.0069 (J)	
6/6/2018							0.0082 (J)
6/7/2018				0.023			
6/8/2018		0.007 (J)					
6/11/2018			0.013		0.019		
8/6/2018	0.076						
9/25/2018			0.014	0.023	0.019		
10/1/2018		0.007 (J)				0.0062 (J)	0.0084 (J)
2/25/2019	0.045						
2/26/2019		0.0067 (J)					
2/27/2019						0.0074 (J)	0.008 (J)
3/5/2019			0.015		0.02		
3/6/2019				0.024			
3/28/2019						0.0082 (J)	0.0082 (J)
3/29/2019		0.0066 (J)					
4/2/2019			0.016				
4/3/2019				0.025	0.017		
6/13/2019	0.062						
8/20/2019	0.06						
9/24/2019						0.0072 (J)	0.0086 (J)
9/25/2019		0.0071 (J)	0.015				
9/26/2019				0.021	0.017		
10/8/2019	0.054						
2/10/2020						0.0066 (J)	0.0091 (J)
2/11/2020			0.015	0.022	0.019		
2/12/2020		0.007 (J)					
3/17/2020	0.031						
3/18/2020		0.0076 (J)					0.0084 (J)
3/19/2020						0.0076 (J)	
3/24/2020			0.015	0.021	0.017		
8/27/2020	0.045						
9/23/2020	0.044		0.015	0.021	0.016	0.0068 (J)	0.0079 (J)
9/25/2020		0.0073 (J)					
2/9/2021				0.023	0.017		
2/10/2021		0.0078 (J)					
2/12/2021						0.0057 (J)	0.009 (J)
3/2/2021		0.0076					
3/3/2021	0.043		0.017	0.023	0.017	0.0068	0.0094
8/18/2021	0.035						
8/19/2021		0.0077				0.0065	0.0079
8/26/2021					0.015		
8/27/2021			0.016	0.02			
2/8/2022	0.03						
2/9/2022			0.017	0.021	0.014	0.0067	0.0088
2/10/2022		0.0088					
8/30/2022	0.028		0.017	0.017	0.012	0.0066	
8/31/2022		0.0075					0.0074

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							0.0038
6/2/2016				0.0064		0.01	
6/7/2016	0.014	0.0058					
7/25/2016				0.0071 (J)			0.0031 (J)
7/26/2016						0.0088 (J)	
7/27/2016	0.0141						
7/28/2016		0.0068 (J)					
9/14/2016			0.0037 (J)				0.0027 (J)
9/15/2016						0.009 (J)	
9/19/2016	0.0155	0.0071 (J)		0.0069 (J)			
11/1/2016				0.007 (J)		0.0079 (J)	0.0027 (J)
11/2/2016	0.0157						
11/3/2016		0.0092 (J)					
11/4/2016			0.0059 (J)				
12/15/2016			0.0056 (J)				
1/11/2017						0.0075 (J)	0.0036 (J)
1/13/2017	0.0158	0.0105					
1/16/2017			0.0049 (J)	0.0071 (J)			
2/21/2017				0.0077 (J)			
3/1/2017							0.0036 (J)
3/2/2017						0.009 (J)	
3/3/2017			0.0046 (J)				
3/6/2017	0.0163	0.0105					
4/26/2017	0.0177	0.011		0.0074 (J)		0.0078 (J)	0.0038 (J)
4/28/2017			0.0039 (J)				
5/26/2017			0.0034 (J)				
6/28/2017			0.003 (J)			0.0071 (J)	0.004 (J)
6/29/2017	0.017	0.0109					
6/30/2017				0.0076 (J)			
10/11/2017					0.0092 (J)		
11/20/2017					0.0081 (J)		
1/11/2018					0.0077 (J)		
2/20/2018					<0.01		
3/27/2018				<0.01			
3/28/2018			<0.01			<0.01	<0.01
3/29/2018	0.014	<0.01					
4/3/2018					<0.01		
6/5/2018		0.011					
6/6/2018	0.015						
6/7/2018			0.0037 (J)			0.0068 (J)	
6/8/2018							0.0034 (J)
6/11/2018				0.007 (J)			
6/28/2018					0.0078 (J)		
8/7/2018					0.0078 (J)		
9/24/2018					0.0071 (J)		
9/25/2018	0.015	0.011					
10/1/2018			0.0038 (J)			0.0065 (J)	0.0034 (J)
10/2/2018				0.0069 (J)			
2/26/2019				0.007 (J)			
2/27/2019			0.0035 (J)			0.0059 (J)	0.0034 (J)
3/5/2019	0.016	0.011					
3/29/2019			0.0039 (J)				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				0.0072 (J)		0.0064 (J)	0.003 (J)
4/2/2019		0.011					
4/3/2019	0.018						
8/21/2019					0.015		
9/24/2019		0.011	0.0038 (J)				
9/25/2019	0.014			0.0066 (J)		0.0059 (J)	0.005 (J)
10/9/2019					0.013		
2/11/2020			0.0036 (J)				0.0031 (J)
2/12/2020	0.014	0.011		0.0073 (J)	0.011	0.0062 (J)	
3/19/2020			0.0036 (J)	0.0074 (J)		0.0072 (J)	0.0029 (J)
3/24/2020	0.015	0.011					
3/25/2020					0.014		
9/23/2020			0.0039 (J)			0.0051 (J)	0.0039 (J)
9/24/2020	0.015	0.01		0.0062 (J)	0.016		
2/9/2021	0.015	0.011					
2/10/2021			0.0032 (J)		0.027	0.0059 (J)	0.0029 (J)
2/11/2021				0.0077 (J)			
3/1/2021				0.007			
3/3/2021	0.015		0.0041 (J)			0.0064	0.0031 (J)
3/4/2021		0.011			0.028		
8/19/2021				0.0071		0.0052	
8/26/2021					0.038		
8/27/2021	0.013		0.003 (J)				0.0039 (J)
9/1/2021		0.0099					
2/8/2022					0.041		
2/9/2022	0.014	0.011	0.0029 (J)			0.0051	0.0031 (J)
2/11/2022				0.0077			
8/30/2022		0.0085	0.003 (J)				
8/31/2022	0.011			0.0068	0.035	0.0048 (J)	0.003 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			0.013	0.0084	0.019
7/26/2016			0.0158	0.01	0.0179
8/30/2016		0.0413			
9/14/2016			0.0143	0.0085 (J)	0.0181
11/2/2016			0.0148	0.0091 (J)	
11/4/2016					0.0165
11/14/2016		0.0383			
1/12/2017				0.0089 (J)	0.0199
1/13/2017			0.0146		
2/24/2017		0.0351			
3/6/2017			0.0141		
3/7/2017				0.009 (J)	0.0196
5/1/2017			0.0149	0.0083 (J)	
5/2/2017					0.0202
5/8/2017		0.0251			
6/27/2017				0.0074 (J)	0.0184
6/29/2017			0.0154		
7/11/2017		0.0233			
10/10/2017		0.0207			
10/12/2017	0.0328				
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				
3/29/2018			0.014	<0.01	0.021
4/2/2018		0.022			
4/3/2018	0.045				
6/6/2018				0.008 (J)	
6/7/2018			0.014		0.019
6/28/2018	0.047				
8/7/2018	0.048				
9/19/2018		0.023			
9/24/2018	0.042				
9/26/2018			0.02	0.0075 (J)	0.019
3/4/2019			0.016	0.0077 (J)	0.019
4/3/2019			0.017	0.0087 (J)	0.023
8/20/2019		0.024			
8/21/2019	0.035				
9/24/2019				0.0075 (J)	0.019
9/25/2019			0.015		
10/8/2019		0.025			
10/9/2019	0.036				
2/12/2020	0.035		0.012	0.0079 (J)	0.021
3/17/2020		0.035			
3/24/2020	0.033			0.0076 (J)	0.021
3/25/2020			0.016		
8/27/2020		0.027			
9/22/2020		0.026	0.013	0.0076 (J)	0.019
9/24/2020	0.028				
2/8/2021				0.0079 (J)	0.02
2/9/2021			0.013		
2/10/2021	0.032				
3/1/2021		0.029			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				0.014	0.019
3/3/2021			0.014		
3/4/2021	0.032				
8/19/2021		0.029			
8/26/2021			0.012	0.0092	0.019
9/3/2021	0.035				
2/8/2022	0.039	0.03			
2/10/2022				0.0084	0.02
2/11/2022			0.013		
8/30/2022				0.0079	0.017
8/31/2022	0.035	0.029	0.013		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.0005						
9/20/1999	<0.0005						
9/12/2001	<0.0005						
9/3/2002	<0.0005						
7/29/2003	<0.0005						
12/5/2003	<0.0005						
9/22/2004	<0.0005						
5/1/2007		<0.0005					
9/11/2007		<0.0005					
3/20/2008		<0.0005					
8/27/2008		<0.0005					
3/3/2009		<0.0005					
11/18/2009		<0.0005					
3/3/2010		<0.0005					
9/8/2010		<0.0005					
11/22/2010				<0.0005		<0.0005	
1/4/2011				<0.0005		<0.0005	
2/17/2011				<0.0005		<0.0005	
3/10/2011		<0.0005					
3/11/2011				<0.0005		<0.0005	
3/28/2011				<0.0005		<0.0005	
9/7/2011				<0.0005	<0.0005	<0.0005	<0.0005
9/8/2011		<0.0005	<0.0005				
3/4/2012						<0.0005	
3/5/2012		<0.0005	<0.0005		<0.0005		<0.0005
3/6/2012				<0.0005			
9/5/2012			<0.0005		<0.0005		<0.0005
9/10/2012		<0.0005				<0.0005	
9/11/2012				<0.0005			
2/5/2013			<0.0005				<0.0005
2/6/2013		<0.0005		<0.0005	<0.0005	<0.0005	
8/12/2013		<0.0005					
8/13/2013			<0.0005	<0.0005	<0.0005		
8/14/2013						<0.0005	<0.0005
2/4/2014			<0.0005	<0.0005		<0.0005	
2/5/2014		<0.0005			<0.0005		<0.0005
8/4/2014					0.0011 (J)	<0.0005	0.00026 (J)
8/5/2014		<0.0005	7.5E-05 (J)	<0.0005			
2/2/2015			0.00023 (J)	<0.0005		<0.0005	
2/3/2015					0.00061 (J)		0.00023 (J)
2/4/2015		<0.0005					
8/3/2015		<0.0005			0.00051 (JD)	<0.0005 (D)	0.00046 (JD)
8/4/2015			<0.0005 (D)	<0.0005			
2/16/2016		<0.0005	<0.0005		0.00084 (J)	<0.0005	0.00048 (J)
2/17/2016				<0.0005			
8/31/2016		<0.0005	0.0001 (J)	<0.0005	0.0003 (J)		
9/1/2016						<0.0005	0.0005 (J)
11/28/2016		<0.0005		<0.0005			
11/29/2016			<0.0005				
11/30/2016					0.0004 (J)	<0.0005	
12/1/2016							0.0003 (J)
2/22/2017		<0.0005		<0.0005			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			<0.0005		0.0003 (J)		
2/24/2017						<0.0005	0.0002 (J)
5/8/2017		<0.0005					
5/9/2017			8E-05 (J)		0.0002 (J)		
5/10/2017				<0.0005		<0.0005	0.0003 (J)
7/17/2017		<0.0005					0.0004 (J)
7/18/2017			<0.0005	<0.0005	0.0002 (J)	<0.0005	
10/16/2017		<0.0005					0.0006 (J)
10/17/2017			0.0001 (J)	<0.0005		<0.0005	
10/18/2017					0.0004 (J)		
2/19/2018		<0.0005					
2/20/2018				<0.0005		<0.0005	
2/21/2018			<0.0005		<0.0005		<0.0005
8/6/2018		<0.0005					
8/7/2018			7.4E-05 (J)		0.00026 (J)		0.00096 (J)
8/8/2018				7E-05 (J)		<0.0005	
2/25/2019		<0.0005					
2/26/2019			7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.0005	0.0015 (J)
6/12/2019		<0.0005		<0.0005		<0.0005	
6/13/2019			<0.0005		0.00051 (J)		0.0015 (J)
8/19/2019		<0.0005				<0.0005	
8/20/2019			0.0001 (J)	0.00017 (J)			
8/21/2019					0.00046 (J)		0.0028 (J)
10/8/2019		<0.0005					
10/9/2019			0.00013 (J)	0.00014 (J)			0.0022 (J)
10/10/2019					0.00039 (J)	<0.0005	
3/17/2020		<0.0005	7.6E-05 (J)		0.00095 (J)		
3/18/2020				0.00012 (J)		<0.0005	0.0028 (J)
8/26/2020		<0.0005					
8/27/2020			0.00024 (J)				0.0023 (J)
8/28/2020				0.0002 (J)	0.0005 (J)	<0.0005	
9/22/2020		<0.0005	0.00021 (J)	0.00021 (J)	0.00042 (J)	5.8E-05 (J)	
9/23/2020							0.0023 (J)
3/1/2021			0.00023 (J)	0.00032 (J)		6E-05 (J)	
3/2/2021		<0.0005			0.00081		0.0037
8/18/2021			0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033
8/20/2021		<0.0005					
2/8/2022		<0.0005	0.00032 (J)		0.001	8.5E-05 (J)	
2/9/2022				0.00023 (J)			0.0036
8/30/2022		<0.0005	0.00037 (J)		0.00056	7.2E-05 (J)	0.0032
8/31/2022				0.00023 (J)			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.0005						
11/18/2009	<0.0005						
1/5/2010	<0.0005						
3/3/2010	<0.0005						
9/7/2010	<0.0005						
3/10/2011	<0.0005						
9/8/2011	<0.0005						
3/5/2012	<0.0005						
9/5/2012	<0.0005						
2/5/2013	<0.0005						
8/13/2013	<0.0005						
2/4/2014	<0.0005						
8/5/2014	<0.0005						
2/3/2015	<0.0005						
8/4/2015	<0.0005						
2/16/2016	<0.0005						
6/1/2016						<0.0005	<0.0005
6/2/2016		<0.0005					
6/6/2016				<0.0005	<0.0005		
6/7/2016			<0.0005				
7/25/2016							<0.0005
7/26/2016		0.0002 (J)				<0.0005	
7/27/2016			<0.0005	<0.0005	<0.0005		
9/1/2016	<0.0005						
9/13/2016						<0.0005	<0.0005
9/15/2016		0.0002 (J)					
9/16/2016			<0.0005		<0.0005		
9/19/2016				<0.0005			
11/1/2016						<0.0005	
11/2/2016		0.0002 (J)					
11/3/2016			<0.0005	<0.0005	<0.0005		
11/4/2016							<0.0005
11/29/2016	<0.0005						
1/10/2017		0.0002 (J)					
1/11/2017			<0.0005	<0.0005	<0.0005	<0.0005	
1/16/2017							<0.0005
2/23/2017	<0.0005						
3/1/2017				<0.0005	<0.0005		
3/2/2017			8E-05 (J)			<0.0005	<0.0005
3/8/2017		0.0002 (J)					
4/26/2017		0.0002 (J)		<0.0005	<0.0005		
4/27/2017						<0.0005	<0.0005
5/2/2017			<0.0005				
5/10/2017	<0.0005						
6/27/2017						<0.0005	<0.0005
6/28/2017				<0.0005	<0.0005		
6/29/2017			<0.0005				
6/30/2017		0.0002 (J)					
7/18/2017	<0.0005						
10/18/2017	<0.0005						
2/19/2018	<0.0005						
3/27/2018		<0.0005					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.0005	<0.0005	<0.0005		
3/29/2018						<0.0005	
6/7/2018				<0.0005			
6/11/2018			9E-05 (J)		5.7E-05 (J)		
8/6/2018	<0.0005						
9/25/2018			8.9E-05 (J)	<0.0005	8.2E-05 (J)		
2/25/2019	<0.0005						
2/26/2019		0.00016 (J)					
2/27/2019						<0.0005	<0.0005
3/5/2019			9.1E-05 (J)		7.9E-05 (J)		
3/6/2019				<0.0005			
3/28/2019						<0.0005	<0.0005
3/29/2019		0.00017 (J)					
4/2/2019			9E-05 (J)				
4/3/2019				<0.0005	7.5E-05 (J)		
6/13/2019	<0.0005						
8/20/2019	<0.0005						
9/24/2019						<0.0005	<0.0005
9/25/2019		0.00018 (J)	8.1E-05 (J)				
9/26/2019				<0.0005	8.4E-05 (J)		
10/8/2019	<0.0005						
2/10/2020						<0.0005	<0.0005
2/11/2020			7.8E-05 (J)	<0.0005	7.6E-05 (J)		
2/12/2020		0.00019 (J)					
3/17/2020	<0.0005						
3/18/2020		0.00021 (J)					<0.0005
3/19/2020						<0.0005	
3/24/2020			8E-05 (J)	<0.0005	8.9E-05 (J)		
8/27/2020	<0.0005						
9/23/2020	<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	<0.0005	<0.0005
9/25/2020		0.00018 (J)					
2/9/2021				<0.0005	9.8E-05 (J)		
2/10/2021		0.00019 (J)					
2/12/2021						<0.0005	<0.0005
3/2/2021		0.00018 (J)					
3/3/2021	<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	<0.0005	<0.0005
8/18/2021	<0.0005						
8/19/2021		0.00022 (J)				<0.0005	<0.0005
8/26/2021					9.3E-05 (J)		
8/27/2021			0.0001 (J)	<0.0005			
2/8/2022	<0.0005						
2/9/2022			0.00011 (J)	<0.0005	8.9E-05 (J)	<0.0005	<0.0005
2/10/2022		0.00025 (J)					
8/30/2022	<0.0005		0.0001 (J)	<0.0005	8.2E-05 (J)	<0.0005	
8/31/2022		0.0002 (J)					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.0005
6/2/2016				<0.0005		<0.0005	
6/7/2016	<0.0005	<0.0005					
7/25/2016				<0.0005			<0.0005
7/26/2016						<0.0005	
7/27/2016	<0.0005						
7/28/2016		<0.0005					
9/14/2016			<0.0005				<0.0005
9/15/2016						<0.0005	
9/19/2016	<0.0005	<0.0005		<0.0005			
11/1/2016				<0.0005		<0.0005	<0.0005
11/2/2016	<0.0005						
11/3/2016		<0.0005					
11/4/2016			<0.0005				
12/15/2016			<0.0005				
1/11/2017						<0.0005	<0.0005
1/13/2017	<0.0005	<0.0005					
1/16/2017			<0.0005	<0.0005			
2/21/2017				<0.0005			
3/1/2017							<0.0005
3/2/2017						<0.0005	
3/3/2017			<0.0005				
3/6/2017	<0.0005	<0.0005					
4/26/2017	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005
4/28/2017			<0.0005				
5/26/2017			<0.0005				
6/28/2017			<0.0005			<0.0005	<0.0005
6/29/2017	<0.0005	<0.0005					
6/30/2017				<0.0005			
10/11/2017					<0.0005		
11/20/2017					<0.0005		
1/11/2018					<0.0005		
2/20/2018					<0.0005		
3/27/2018				<0.0005			
3/28/2018			<0.0005			<0.0005	<0.0005
3/29/2018	<0.0005	<0.0005					
4/3/2018					<0.0005		
6/5/2018		<0.0005					
6/6/2018	8E-05 (J)						
6/28/2018					<0.0005		
8/7/2018					<0.0005		
9/24/2018					<0.0005		
9/25/2018	6.1E-05 (J)	<0.0005					
2/26/2019				7.2E-05 (J)			
2/27/2019			<0.0005			<0.0005	<0.0005
3/5/2019	0.00011 (J)	<0.0005					
3/29/2019			<0.0005				
4/1/2019				<0.0005		<0.0005	<0.0005
4/2/2019		<0.0005					
4/3/2019	6.4E-05 (J)						
8/21/2019					<0.0005		
9/24/2019		<0.0005	<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/25/2019	<0.0005			<0.0005		<0.0005	<0.0005
10/9/2019					<0.0005		
2/11/2020			<0.0005				<0.0005
2/12/2020	7.8E-05 (J)	<0.0005		<0.0005	<0.0005	<0.0005	
3/19/2020			<0.0005	<0.0005		<0.0005	<0.0005
3/24/2020	7.6E-05 (J)	<0.0005					
3/25/2020					<0.0005		
9/23/2020			<0.0005			<0.0005	5.9E-05 (J)
9/24/2020	8.3E-05 (J)	<0.0005		<0.0005	<0.0005		
2/9/2021	6.8E-05 (J)	<0.0005					
2/10/2021			<0.0005		5.1E-05 (J)	<0.0005	<0.0005
2/11/2021				4.7E-05 (J)			
3/1/2021				<0.0005			
3/3/2021	6.8E-05 (J)		<0.0005			<0.0005	<0.0005
3/4/2021		<0.0005			<0.0005		
8/19/2021				<0.0005		<0.0005	
8/26/2021					<0.0005		
8/27/2021	5.9E-05 (J)		<0.0005				<0.0005
9/1/2021		<0.0005					
2/8/2022					<0.0005		
2/9/2022	7.7E-05 (J)	<0.0005	<0.0005			<0.0005	<0.0005
2/11/2022				<0.0005			
8/30/2022		<0.0005	<0.0005				
8/31/2022	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.0005	<0.0005	<0.0005
7/26/2016			<0.0005	<0.0005	<0.0005
8/30/2016		<0.0005			
9/14/2016			<0.0005	<0.0005	<0.0005
11/2/2016			<0.0005	<0.0005	
11/4/2016					<0.0005
11/14/2016		<0.0005			
1/12/2017				<0.0005	<0.0005
1/13/2017			<0.0005		
2/24/2017		<0.0005			
3/6/2017			<0.0005		
3/7/2017				<0.0005	<0.0005
5/1/2017			<0.0005	<0.0005	
5/2/2017					<0.0005
5/8/2017		7E-05 (J)			
6/27/2017				<0.0005	<0.0005
6/29/2017			<0.0005		
7/11/2017		<0.0005			
10/10/2017		<0.0005			
10/12/2017	0.0002 (J)				
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<0.0005				
3/29/2018			<0.0005	<0.0005	<0.0005
4/2/2018		<0.0005			
4/3/2018	<0.0005				
6/6/2018				<0.0005	
6/7/2018			<0.0005		<0.0005
6/28/2018	0.00029 (J)				
8/7/2018	0.00024 (J)				
9/19/2018		5.7E-05 (J)			
9/24/2018	0.00019 (J)				
9/26/2018			<0.0005	<0.0005	<0.0005
3/4/2019			<0.0005	<0.0005	<0.0005
4/3/2019			<0.0005	<0.0005	<0.0005
8/20/2019		<0.0005			
8/21/2019	0.0002 (J)				
9/24/2019				<0.0005	<0.0005
9/25/2019			<0.0005		
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)		<0.0005	<0.0005	<0.0005
3/24/2020	0.00022 (J)			<0.0005	<0.0005
3/25/2020			<0.0005		
8/27/2020		4.7E-05 (J)			
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	0.0002 (J)				
2/8/2021				<0.0005	<0.0005
2/9/2021			<0.0005		
2/10/2021	0.00021 (J)				
3/1/2021		5.5E-05 (J)			
3/2/2021				<0.0005	<0.0005
3/3/2021			<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/4/2021	0.00021 (J)				
8/19/2021		<0.0005			
8/26/2021			<0.0005	<0.0005	<0.0005
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)	5.6E-05 (J)			
2/10/2022				<0.0005	<0.0005
2/11/2022			<0.0005		
8/30/2022				<0.0005	<0.0005
8/31/2022	0.00025 (J)	<0.0005	<0.0005		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0315 (J)	0.0553 (J)	0.0305 (J)	0.0315 (J)			
9/1/2016					3.25	0.0191 (J)	0.0108 (J)
11/28/2016	0.0095 (J)		0.0206 (J)				
11/29/2016		0.0149 (J)					<0.04
11/30/2016				0.0089 (J)	0.813		
12/1/2016						0.0088 (J)	
2/22/2017	<0.04		0.0192 (J)				
2/23/2017		0.0082 (J)		<0.04			<0.04
2/24/2017					2.53	0.0067 (J)	
5/8/2017	0.0084 (J)						
5/9/2017		0.0097 (J)		0.0077 (J)			
5/10/2017			0.0179 (J)		1.22	0.0068 (J)	<0.04
7/17/2017	0.0092 (J)					0.0102 (J)	
7/18/2017		0.0123 (J)	0.0169 (J)	0.0073 (J)	0.97		0.0061 (J)
10/16/2017	<0.04					0.0066 (J)	
10/17/2017		0.0513	0.0168 (J)		0.804		
10/18/2017				<0.04			<0.04
2/19/2018	<0.04						<0.04
2/20/2018			<0.04		1.01		
2/21/2018		0.0378 (J)		0.0399 (J)		0.0268 (J)	
8/6/2018	<0.04						<0.04
8/7/2018		0.043		0.0049 (J)		0.012 (J)	
8/8/2018			0.017 (J)		1.3		
2/25/2019	<0.04						<0.04
2/26/2019		0.062	0.017 (J)	0.0053 (J)	0.75	0.033 (J)	
6/12/2019	<0.04		0.013 (J)		1.5		
6/13/2019		0.057		<0.04		0.03 (J)	<0.04
10/8/2019	<0.04						<0.04
10/9/2019		0.029 (J)	0.018 (J)			0.013 (J)	
10/10/2019				0.0061 (J)	0.78		
3/17/2020	0.0051 (J)	0.092 (J)		0.0099 (J)			<0.04
3/18/2020			0.026 (J)		5.4	0.034 (J)	
9/22/2020	0.0079 (J)	0.025 (J)	0.046 (J)	0.0066 (J)	1		
9/23/2020						0.028 (J)	0.0055 (J)
3/1/2021		0.046	0.087		5.1		
3/2/2021	<0.04			0.0071 (J)		0.023 (J)	
3/3/2021							<0.04
8/18/2021		0.029 (J)	0.14	<0.04	4.5	0.021 (J)	<0.04
8/20/2021	<0.04						
2/8/2022	<0.04	0.021 (J)		<0.04	5.3		<0.04
2/9/2022			0.23			0.043	
8/30/2022	<0.04	0.015 (J)		0.014 (J)	4.4	0.058	0.0092 (J)
8/31/2022			0.19				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	0.02 (J)						
3/2/2021	0.017 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04	<0.04	<0.04
8/19/2021	0.018 (J)				<0.04	<0.04	
8/26/2021				<0.04			
8/27/2021		0.011 (J)	<0.04				<0.04
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	<0.04
2/10/2022	0.02 (J)						
8/30/2022		0.013 (J)	<0.04	0.014 (J)	<0.04		
8/31/2022	0.015 (J)					<0.04	<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.04	
6/2/2016			<0.04		<0.04		
6/7/2016	<0.04						
7/25/2016			<0.04			<0.04	
7/26/2016					0.0097 (J)		
7/28/2016	<0.04						
9/14/2016		<0.04				<0.04	
9/15/2016					0.0102 (J)		
9/19/2016	<0.04		<0.04				
11/1/2016			<0.04		<0.04	<0.04	
11/3/2016	<0.04						
11/4/2016		<0.04					
12/15/2016		0.0107 (J)					
1/11/2017					<0.04	<0.04	
1/13/2017	<0.04						
1/16/2017		<0.04	<0.04				
2/21/2017			<0.04				
3/1/2017						<0.04	
3/2/2017					0.0084 (J)		
3/3/2017		<0.04					
3/6/2017	<0.04						
4/26/2017	<0.04		<0.04		<0.04	<0.04	
4/28/2017		<0.04					
5/26/2017		<0.04					
6/28/2017		<0.04			<0.04	<0.04	
6/29/2017	<0.04						
6/30/2017			<0.04				
10/3/2017	<0.04	<0.04					
10/4/2017			<0.04		<0.04	<0.04	
10/11/2017				0.0135 (J)			
10/12/2017							0.0401
11/20/2017				0.0251 (J)			0.156
1/10/2018							0.15
1/11/2018				0.0255 (J)			
2/19/2018							0.146
2/20/2018				<0.04			
4/3/2018				0.033 (J)			0.12
6/5/2018	0.0092 (J)						
6/7/2018		<0.04			0.004 (J)		
6/8/2018						<0.04	
6/11/2018			0.014 (J)				
6/28/2018				0.053			0.16
8/7/2018				0.024 (J)			0.12
9/24/2018				0.028 (J)			0.099
9/25/2018	0.0054 (J)						
10/1/2018		<0.04			<0.04	<0.04	
10/2/2018			<0.04				
3/26/2019							0.096
3/27/2019				0.017 (J)			
3/29/2019		0.0065 (J)					
4/1/2019			<0.04		<0.04	<0.04	
4/2/2019	0.011 (J)						

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	0.018 (J)	0.0076 (J)					
9/25/2019			<0.04		0.0054 (J)	<0.04	
10/9/2019				0.017 (J)			0.079
3/19/2020		0.0073 (J)	0.0052 (J)		0.0073 (J)	0.0053 (J)	
3/24/2020	0.016 (J)						0.088 (J)
3/25/2020				0.043 (J)			
9/23/2020		<0.04			0.012 (J)	0.0073 (J)	
9/24/2020	0.013 (J)		0.0075 (J)	0.037 (J)			0.087 (J)
3/1/2021			<0.04				
3/3/2021		<0.04			<0.04	<0.04	
3/4/2021	0.0079 (J)			0.033 (J)			0.078
8/19/2021			<0.04		<0.04		
8/26/2021				0.095			
8/27/2021		<0.04				<0.04	
9/1/2021	<0.04						
9/3/2021							0.077
2/8/2022				0.13			0.074
2/9/2022	<0.04	<0.04			0.01 (J)	<0.04	
2/11/2022			<0.04				
8/30/2022	0.012 (J)	<0.04					
8/31/2022			<0.04	0.14	<0.04	<0.04	0.062

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.04	<0.04	<0.04
7/26/2016		0.0047 (J)	0.0052 (J)	<0.04
8/30/2016	0.0166 (J)			
9/14/2016		<0.04	0.0071 (J)	0.01 (J)
11/2/2016		<0.04	<0.04	
11/4/2016				<0.04
11/14/2016	0.0166 (J)			
1/12/2017			0.0076 (J)	<0.04
1/13/2017		<0.04		
2/24/2017	0.0145 (J)			
3/6/2017		<0.04		
3/7/2017			0.0089 (J)	<0.04
5/1/2017		<0.04	0.0061 (J)	
5/2/2017				<0.04
5/8/2017	0.0141 (J)			
6/27/2017			0.0079 (J)	<0.04
6/29/2017		<0.04		
7/11/2017	0.0131 (J)			
10/3/2017			0.0094 (J)	<0.04
10/5/2017		<0.04		
10/10/2017	0.0124 (J)			
4/2/2018	0.013 (J)			
6/6/2018			0.0098 (J)	
6/7/2018		0.0045 (J)		<0.04
9/19/2018	0.012 (J)			
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)
3/27/2019	0.013 (J)			
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)
9/24/2019			0.01 (J)	0.0049 (J)
9/25/2019		<0.04		
10/8/2019	0.012 (J)			
3/17/2020	0.023 (J)			
3/24/2020			0.011 (J)	0.0068 (J)
3/25/2020		0.011 (J)		
9/22/2020	0.0076 (J)	<0.04	0.0079 (J)	0.0053 (J)
3/1/2021	0.013 (J)			
3/2/2021			0.0068 (J)	0.011 (J)
3/3/2021		0.0056 (J)		
8/19/2021	0.011 (J)			
8/26/2021		<0.04	0.009 (J)	<0.04
2/8/2022	0.015 (J)			
2/10/2022			0.011 (J)	<0.04
2/11/2022		<0.04		
8/30/2022			0.0098 (J)	<0.04
8/31/2022	0.0091 (J)	<0.04		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.0005						
9/11/2007	<0.0005						
3/20/2008	<0.0005						
8/27/2008	<0.0005						
3/3/2009	<0.0005						
9/9/2009							<0.0005
11/18/2009	<0.0005						<0.0005
1/5/2010							<0.0005
3/3/2010	<0.0005						<0.0005
9/7/2010							<0.0005
9/8/2010	<0.0005						
11/22/2010			<0.0005		<0.0005		
1/4/2011			<0.0005		<0.0005		
2/17/2011			<0.0005		<0.0005		
3/10/2011	<0.0005						<0.0005
3/11/2011			<0.0005		<0.0005		
3/28/2011			<0.0005		<0.0005		
9/7/2011			<0.0005	<0.0005	<0.0005	<0.0005	
9/8/2011	<0.0005	<0.0005					<0.0005
3/4/2012					<0.0005		
3/5/2012	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005
3/6/2012			<0.0005				
9/5/2012		<0.0005		<0.0005		<0.0005	<0.0005
9/10/2012	<0.0005				<0.0005		
9/11/2012			<0.0005				
2/5/2013		<0.0005				<0.0005	<0.0005
2/6/2013	<0.0005		<0.0005	<0.0005	<0.0005		
8/12/2013	<0.0005						
8/13/2013		<0.0005	<0.0005	<0.0005			<0.0005
8/14/2013					<0.0005	<0.0005	
2/4/2014		<0.0005	<0.0005		<0.0005		<0.0005
2/5/2014	<0.0005			<0.0005		<0.0005	
8/4/2014				0.00034 (J)	<0.0005	0.00045 (J)	
8/5/2014	<0.0005	<0.0005	<0.0005				<0.0005
2/2/2015		<0.0005	<0.0005		<0.0005		
2/3/2015				<0.0005		<0.0005	<0.0005
2/4/2015	<0.0005						
8/3/2015	<0.0005			<0.0005 (D)	<0.0005 (D)	0.00046 (JD)	
8/4/2015		<0.0005 (D)	<0.0005				<0.0005
2/16/2016	<0.0005	<0.0005		0.00025 (J)	<0.0005	0.00097 (J)	<0.0005
2/17/2016			<0.0005				
8/31/2016	<0.0005	<0.0005	0.0001 (J)	<0.0005			
9/1/2016					0.0001 (J)	0.0005 (J)	<0.0005
11/28/2016	<0.0005		0.0001 (J)				
11/29/2016		8E-05 (J)					<0.0005
11/30/2016				<0.0005	<0.0005		
12/1/2016						0.0004 (J)	
2/22/2017	<0.0005		<0.0005				
2/23/2017		<0.0005		<0.0005			<0.0005
2/24/2017					<0.0005	0.0003 (J)	
5/8/2017	<0.0005						
5/9/2017		<0.0005		<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.0005		<0.0005	0.0003 (J)	<0.0005
7/17/2017	<0.0005					0.0004 (J)	
7/18/2017		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
10/16/2017	<0.0005					0.0006 (J)	
10/17/2017		<0.0005	<0.0005		<0.0005		
10/18/2017				<0.0005			<0.0005
2/19/2018	<0.0005						<0.0005
2/20/2018			<0.0005		<0.0005		
2/21/2018		<0.0005		<0.0005		<0.0005	
8/6/2018	<0.0005						<0.0005
8/7/2018		<0.0005		<0.0005		0.00083 (J)	
8/8/2018			<0.0005		<0.0005		
2/25/2019	<0.0005						<0.0005
2/26/2019		<0.0005	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)	
6/12/2019	<0.0005		<0.0005		<0.0005		
6/13/2019		<0.0005		0.00021 (J)		0.00073 (J)	<0.0005
8/19/2019	<0.0005				<0.0005		
8/20/2019		<0.0005	<0.0005				<0.0005
8/21/2019				<0.0005		0.0012 (J)	
10/8/2019	<0.0005						<0.0005
10/9/2019		<0.0005	<0.0005			0.0011 (J)	
10/10/2019				0.00018 (J)	<0.0005		
3/17/2020	<0.0005	<0.0005		0.00037 (J)			<0.0005
3/18/2020			<0.0005		<0.0005	0.0012 (J)	
8/26/2020	<0.0005						
8/27/2020		0.00012 (J)				0.00091 (J)	<0.0005
8/28/2020			0.00015 (J)	0.00014 (J)	<0.0005		
9/22/2020	<0.0005	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005		
9/23/2020						0.00094 (J)	<0.0005
3/1/2021		0.00013 (J)	0.00016 (J)		<0.0005		
3/2/2021	<0.0005			0.00021 (J)		0.0011	
3/3/2021							<0.0005
8/18/2021		0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001	<0.0005
8/20/2021	<0.0005						
2/8/2022	<0.0005	0.00019 (J)		0.00018 (J)	<0.0005		<0.0005
2/9/2022			<0.0005			0.001	
8/30/2022	<0.0005	0.00026 (J)		0.00016 (J)	0.00011 (J)	0.00098	<0.0005
8/31/2022			0.00012 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.0005	<0.0005	
6/2/2016	<0.0005						
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005					<0.0005
7/25/2016						<0.0005	
7/26/2016	<0.0005				<0.0005		
7/27/2016		<0.0005	<0.0005	<0.0005			<0.0005
9/13/2016					<0.0005	<0.0005	
9/15/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005				<0.0005
11/1/2016					<0.0005		
11/2/2016	<0.0005						<0.0005
11/3/2016		<0.0005	<0.0005	<0.0005			
11/4/2016						<0.0005	
1/10/2017	<0.0005						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)	0.0002 (J)		
1/13/2017							<0.0005
1/16/2017						<0.0005	
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005			<0.0005	<0.0005	
3/6/2017							<0.0005
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005		<0.0005	<0.0005			<0.0005
4/27/2017					<0.0005	<0.0005	
5/2/2017		<0.0005					
6/27/2017					<0.0005	<0.0005	
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005					<0.0005
6/30/2017	<0.0005						
3/27/2018	<0.0005					<0.0005	
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005		<0.0005
6/6/2018							<0.0005
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
9/25/2018		<0.0005	<0.0005	<0.0005			<0.0005
2/26/2019	<0.0005						
2/27/2019					<0.0005	<0.0005	
3/5/2019		<0.0005		<0.0005			<0.0005
3/6/2019			<0.0005				
3/28/2019					<0.0005	<0.0005	
3/29/2019	<0.0005						
4/2/2019		<0.0005					
4/3/2019			<0.0005	<0.0005			<0.0005
9/24/2019					<0.0005	<0.0005	
9/25/2019	<0.0005	<0.0005					<0.0005
9/26/2019			<0.0005	<0.0005			
2/10/2020					<0.0005	<0.0005	
2/11/2020		<0.0005	<0.0005	<0.0005			
2/12/2020	<0.0005						<0.0005
3/18/2020	<0.0005					<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
3/19/2020					<0.0005		
3/24/2020		<0.0005	<0.0005	<0.0005			<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020							<0.0005
9/25/2020	<0.0005						
2/9/2021			<0.0005	<0.0005			<0.0005
2/10/2021	<0.0005						
2/12/2021					<0.0005	<0.0005	
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021	<0.0005				<0.0005	<0.0005	
8/26/2021				<0.0005			
8/27/2021		<0.0005	<0.0005				<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005						
8/30/2022		<0.0005	<0.0005	<0.0005	<0.0005		
8/31/2022	<0.0005					<0.0005	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.0005	
6/2/2016			<0.0005		<0.0005		
6/7/2016	<0.0005						
7/25/2016			<0.0005			<0.0005	
7/26/2016					<0.0005		
7/28/2016	<0.0005						
9/14/2016		<0.0005				<0.0005	
9/15/2016					<0.0005		
9/19/2016	<0.0005		<0.0005				
11/1/2016			<0.0005		<0.0005	<0.0005	
11/3/2016	<0.0005						
11/4/2016		<0.0005					
12/15/2016		<0.0005					
1/11/2017					0.0001 (J)	8E-05 (J)	
1/13/2017	<0.0005						
1/16/2017		<0.0005	<0.0005				
2/21/2017			<0.0005				
3/1/2017						<0.0005	
3/2/2017					<0.0005		
3/3/2017		<0.0005					
3/6/2017	<0.0005						
4/26/2017	<0.0005		<0.0005		<0.0005	<0.0005	
4/28/2017		<0.0005					
5/26/2017		<0.0005					
6/28/2017		<0.0005			<0.0005	<0.0005	
6/29/2017	<0.0005						
6/30/2017			<0.0005				
10/11/2017				<0.0005			
10/12/2017							<0.0005
11/20/2017				<0.0005			<0.0005
1/10/2018							<0.0005
1/11/2018				<0.0005			
2/19/2018							<0.0005
2/20/2018				<0.0005			
3/27/2018			<0.0005				
3/28/2018		<0.0005			<0.0005	<0.0005	
3/29/2018	<0.0005						
4/3/2018				<0.0005			<0.0005
6/5/2018	<0.0005						
6/28/2018				<0.0005			<0.0005
8/7/2018				<0.0005			<0.0005
9/24/2018				<0.0005			<0.0005
9/25/2018	9.6E-05 (J)						
2/26/2019			<0.0005				
2/27/2019		<0.0005			<0.0005	<0.0005	
3/5/2019	<0.0005						
3/29/2019		<0.0005					
4/1/2019			<0.0005		<0.0005	<0.0005	
4/2/2019	<0.0005						
8/21/2019				<0.0005			<0.0005
9/24/2019	<0.0005	<0.0005					
9/25/2019			<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
10/9/2019				<0.0005			<0.0005
2/11/2020		<0.0005				<0.0005	
2/12/2020	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
3/19/2020		<0.0005	<0.0005		<0.0005	<0.0005	
3/24/2020	<0.0005						<0.0005
3/25/2020				<0.0005			
9/23/2020		<0.0005			<0.0005	<0.0005	
9/24/2020	<0.0005		<0.0005	<0.0005			<0.0005
2/9/2021	0.00041 (J)						
2/10/2021		<0.0005		0.00019 (J)	<0.0005	<0.0005	<0.0005
2/11/2021			<0.0005				
3/1/2021			<0.0005				
3/3/2021		<0.0005			<0.0005	<0.0005	
3/4/2021	<0.0005			0.0003 (J)			<0.0005
8/19/2021			<0.0005		<0.0005		
8/26/2021				0.00049 (J)			
8/27/2021		<0.0005				<0.0005	
9/1/2021	<0.0005						
9/3/2021							<0.0005
2/8/2022				0.00063			<0.0005
2/9/2022	<0.0005	<0.0005			<0.0005	<0.0005	
2/11/2022			<0.0005				
8/30/2022	<0.0005	<0.0005					
8/31/2022			<0.0005	0.00044 (J)	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.0005	<0.0005	<0.0005
7/26/2016		<0.0005	<0.0005	<0.0005
8/30/2016	0.0001 (J)			
9/14/2016		<0.0005	<0.0005	<0.0005
11/2/2016		<0.0005	<0.0005	
11/4/2016				<0.0005
11/14/2016	0.0001 (J)			
1/12/2017			<0.0005	9E-05 (J)
1/13/2017		<0.0005		
2/24/2017	9E-05 (J)			
3/6/2017		<0.0005		
3/7/2017			<0.0005	<0.0005
5/1/2017		<0.0005	<0.0005	
5/2/2017				<0.0005
5/8/2017	0.0001 (J)			
6/27/2017			<0.0005	<0.0005
6/29/2017		<0.0005		
7/11/2017	<0.0005			
10/10/2017	<0.0005			
3/29/2018		<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005			
6/6/2018			<0.0005	
6/7/2018		<0.0005		<0.0005
9/19/2018	<0.0005			
9/26/2018		<0.0005	<0.0005	<0.0005
3/4/2019		<0.0005	<0.0005	<0.0005
4/3/2019		<0.0005	<0.0005	<0.0005
8/20/2019	<0.0005			
9/24/2019			<0.0005	<0.0005
9/25/2019		<0.0005		
10/8/2019	<0.0005			
2/12/2020		<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005			
3/24/2020			<0.0005	<0.0005
3/25/2020		<0.0005		
8/27/2020	<0.0005			
9/22/2020		<0.0005	<0.0005	<0.0005
2/8/2021			<0.0005	<0.0005
2/9/2021		<0.0005		
3/2/2021			<0.0005	<0.0005
3/3/2021		<0.0005		
8/19/2021	<0.0005			
8/26/2021		<0.0005	<0.0005	<0.0005
2/8/2022	<0.0005			
2/10/2022			<0.0005	<0.0005
2/11/2022		<0.0005		
8/30/2022			<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	9.31	69.4	19.9	7.23			
9/1/2016					37.1	113	56.8
11/28/2016	9.47 (B)		17.7 (B)				
11/29/2016		70.6 (B)					50.7 (B)
11/30/2016				6.43 (B)	13.4 (B)		
12/1/2016						141 (B)	
2/22/2017	10.4		16.2				
2/23/2017		62.4		4.25			63.5
2/24/2017					29.5	118	
5/8/2017	14.2						
5/9/2017		47.4		3.56			
5/10/2017			11.8		17	136	105
7/17/2017	14.1					125	
7/18/2017		33.2	8.69	4.16	16.8		157
10/16/2017	13.6					78.2	
10/17/2017		38.7	9.77		14.3		
10/18/2017				5.67			118
2/19/2018	<25						124
2/20/2018			<25		<25		
2/21/2018		34.3		4.76		64	
8/6/2018	11.4 (J)						173
8/7/2018		26.2		4.7		83	
8/8/2018			13.4 (J)		22.1 (J)		
2/25/2019	12.7 (J)						143
2/26/2019		24.7 (J)	20.9 (J)	7.1	15.1 (J)	94.4	
6/12/2019	18.9		26.6		24.2		
6/13/2019		33.8		15.7		127	146
10/8/2019	28.3						115
10/9/2019		59.1	27.8			128	
10/10/2019				4.3	18		
3/17/2020	24.3	36.7		20.3			66.8
3/18/2020			34.5		76.6	149	
9/22/2020	31	98.8	40.5	6.2	21.8		
9/23/2020						144	103
3/1/2021		117	54.1		69.5		
3/2/2021	34.2			17.9		145	
3/3/2021							105
8/18/2021		154	45.8	20.2	56.2	159	74.5
8/20/2021	26.5						
2/8/2022	25.6	166		17.9	66.5		61.5
2/9/2022			46.6			139	
8/30/2022	23.5	189		17.5	55.8	135	40.6
8/31/2022			46.9				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					12	2.5	
6/2/2016	1.3						
6/6/2016			6.2	1.4			
6/7/2016		2.2					2.3
7/25/2016						2.16	
7/26/2016	1.24				11		
7/27/2016		2	4.73	1.19			2.08
9/13/2016					11.8	2.21	
9/15/2016	1.17						
9/16/2016		1.97		1.5			
9/19/2016			4.76				1.97
11/1/2016					11		
11/2/2016	1.23						2.13
11/3/2016		1.99	5.25	1.31			
11/4/2016						2.67	
1/10/2017	1.24						
1/11/2017		2.28	4.74	1.25	11.2		
1/13/2017							2.45
1/16/2017						2.45	
3/1/2017			5.37	1.26			
3/2/2017		2.15			11	2.57	
3/6/2017							2.48
3/8/2017	1.21						
4/26/2017	1.14		4.28	1.05			2.3
4/27/2017					11.1	2.38	
5/2/2017		1.95					
6/27/2017					13.8	2.36	
6/28/2017			4.95	1.06			
6/29/2017		2.02					2.54
6/30/2017	1.24						
10/3/2017					14	2.21	
10/4/2017		2.03		1.1			2.25
10/5/2017	1.11		5.28				
6/5/2018					15.2 (J)		
6/6/2018						2.3	2.3
6/7/2018			4.8				
6/8/2018	1.1						
6/11/2018		2.1		1.4			
9/25/2018		2.1	4.6	1			2.3
10/1/2018	0.99				15.1	1.8	
3/28/2019					13.3 (J)	2.2	
3/29/2019	1.1						
4/2/2019		2.5					
4/3/2019			5.3	1.2			2.9
9/24/2019					15.8	2.3	
9/25/2019	1.1	2.6					2.4
9/26/2019			4.9	1.1			
3/18/2020	1.1					2.1	
3/19/2020					15		
3/24/2020		2.7	5.3	1			2.6
9/23/2020		2.6	5.2	0.91 (J)	14.1	1.8	
9/24/2020							2.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	1.3						
3/2/2021	1.2						
3/3/2021		2.5	5.2	0.96 (J)	14.1	1.8	2.4
8/19/2021	1.2				14.2	2	
8/26/2021				0.98 (J)			
8/27/2021		2.7	5.1				2.4
2/9/2022		2.8	5.1	0.87 (J)	14.9	2.1	2.3
2/10/2022	1.3						
8/30/2022		3	5.7	0.77 (J)	14.9		
8/31/2022	1.3					1.9	2.4

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						21	
6/2/2016			1.3		28		
6/7/2016	3.7						
7/25/2016			1.17			20.3	
7/26/2016					24.5		
7/28/2016	3.15						
9/14/2016		23.5				19.7	
9/15/2016					27		
9/19/2016	3.17		1.05				
11/1/2016			1.14		25.6	18.4	
11/3/2016	3.4						
11/4/2016		23.7					
12/15/2016		23.1					
1/11/2017					27.5	20.3	
1/13/2017	4.98						
1/16/2017		23.3	1.23				
2/21/2017			1.25				
3/1/2017						18.6	
3/2/2017					27.5		
3/3/2017		25.1					
3/6/2017	6.28						
4/26/2017	6.65		1.03		30.4	25.6	
4/28/2017		30.7					
5/26/2017		26.2					
6/28/2017		26.1			29.8	23.9	
6/29/2017	6.04						
6/30/2017			1.13				
10/3/2017	8.28	26.7					
10/4/2017			1.09		29.7	22.1	
10/11/2017				2.74			
10/12/2017							2.9
11/20/2017				1.81			10.4
1/10/2018							10.2
1/11/2018				1.54			
2/19/2018							<25
2/20/2018				1.71			
4/3/2018				1.4			6.3
6/5/2018	9.1						
6/7/2018		25			29.1		
6/8/2018						21.9 (J)	
6/11/2018			1.1				
6/28/2018				1.4			6.7
8/7/2018				1.2			6.3
9/24/2018				1.1			5.7
9/25/2018	10.4 (J)						
10/1/2018		25			26.9	19.7	
10/2/2018			1.1				
3/26/2019							5.6
3/27/2019				1.5			
3/29/2019		23.5 (J)					
4/1/2019			1.3		30.1	20.4 (J)	
4/2/2019	8.8						

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	7.7	26.4					
9/25/2019			1.1		29.5	22.4	
10/9/2019				2.4			4.9
3/19/2020		27.4	1.2		31.5	21.9	
3/24/2020	6						4.8
3/25/2020				2.7			
9/23/2020		26.3			28.6	23.6	
9/24/2020	7.8		1.1	3.7			4.4
3/1/2021			1.2				
3/3/2021		25.6			29.8	20.6	
3/4/2021	8.7			8.2			4.6
8/19/2021			1.2		28.1		
8/26/2021				14.1			
8/27/2021		22.6				24.7	
9/1/2021	9.5						
9/3/2021							5.6
2/8/2022				15.2			6
2/9/2022	9.8	23.4			30.3	23.7	
2/11/2022			1.5				
8/30/2022	7.3	25.4					
8/31/2022			1.3	16.3	28.7	23.5	6.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		8.8	33	2.4
7/26/2016		7.69	32.3	2.12
8/30/2016	20.9			
9/14/2016		8.49	31	2.18
11/2/2016		7.83	30.9	
11/4/2016				2.17 (J)
11/14/2016	18.6			
1/12/2017			35.7	2.37
1/13/2017		8.08		
2/24/2017	16.1			
3/6/2017		8.64		
3/7/2017			32.7	2.34
5/1/2017		13.4	37	
5/2/2017				2.17
5/8/2017	14.6			
6/27/2017			36.5	2.13
6/29/2017		8.81		
7/11/2017	14.3			
10/3/2017			30.9	2.15
10/5/2017		9.29		
10/10/2017	12.1			
4/2/2018	<25			
6/6/2018			26.2	
6/7/2018		8.2		2.3
9/19/2018	11.1 (J)			
9/26/2018		9.5 (J)	25.8	2.3
3/27/2019	10.8 (J)			
4/3/2019		8.4	24.7 (J)	2.8
9/24/2019			25.8	2.5
9/25/2019		9.5		
10/8/2019	9.7			
3/17/2020	14.8			
3/24/2020			26.1	2.5
3/25/2020		10.5		
9/22/2020	10.1	9.6	27.2	2.6
3/1/2021	10.3			
3/2/2021			1.6	2.6
3/3/2021		7.7		
8/19/2021	9.6			
8/26/2021		7.6	25.2	2.5
2/8/2022	9.4			
2/10/2022			24.8	2.5
2/11/2022		7.5		
8/30/2022			24.8	2.5
8/31/2022	9.6	8.9		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	4	7.6	6.3	6.7			
9/1/2016					190	6.6	4.4
11/28/2016	4.2		6.7				
11/29/2016		5.8					4.8
11/30/2016				7.8	48		
12/1/2016						6	
2/22/2017	3.7		5.7				
2/23/2017		6.2		6.5			4.4
2/24/2017					130	3.4	
5/8/2017	4.2						
5/9/2017		16		7.2			
5/10/2017			7.1		71	4.5	3.9
7/17/2017	3.8					3.2	
7/18/2017		18	6	7.7	46		4
10/16/2017	4.2					9	
10/17/2017		31	6.1		50		
10/18/2017				6.5			4.1
2/19/2018	4.3						4.4
2/20/2018			5.8		53.1		
2/21/2018		27		6.7		5.6	
8/6/2018	3.8						3.9
8/7/2018		35.4		6.3		4.7	
8/8/2018			4.7		69.3		
2/25/2019	4.1						4.4
2/26/2019		20	5.7	5.7	42.2	4.2	
6/12/2019	4.7		9.1		69.5		
6/13/2019		16.4		5		5.5	6.2
10/8/2019	5.1						4.9
10/9/2019		6.9	9.8			4.5	
10/10/2019				5.3	42.8		
3/17/2020	4.8	15.5		5.2			4.4
3/18/2020			11.7		233	3.8	
9/22/2020	4.2	5.5	24.7	4.2	60.2		
9/23/2020						3	4.7
3/1/2021		8.6	49.6		194		
3/2/2021	4.1			5.5		2.9	
3/3/2021							5
8/18/2021		5.2	26.2	4.6	150	2.3	5.4
8/20/2021	5.2						
2/8/2022	5.7	5.6		4.5	162		6.9
2/9/2022			21.2			2	
8/30/2022	6.3	5.6		3.1	146	1.8	7.5
8/31/2022			14.5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					1.3	1.6	
6/2/2016	4.1						
6/6/2016			6.8	6.4			
6/7/2016		4.5					1.9
7/25/2016						1.4	
7/26/2016	4				1.2		
7/27/2016		4.5	6.7	6.2			1.9
9/13/2016					1.1	1.3	
9/15/2016	4.2						
9/16/2016		4.5		6.1			
9/19/2016			7				1.9
11/1/2016					1.3		
11/2/2016	4.9						2.6
11/3/2016		5.4	7.5	7.4			
11/4/2016						1.6	
1/10/2017	4.1						
1/11/2017		4.7	6.5	6.1	1.1		
1/13/2017							2.3
1/16/2017						1.4	
3/1/2017			6.9	6			
3/2/2017		4.8			1	1.3	
3/6/2017							1.9
3/8/2017	4.2						
4/26/2017	4.1		7	6.5			2
4/27/2017					1	1.3	
5/2/2017		4.6					
6/27/2017					1.1	1.4	
6/28/2017			7	6.4			
6/29/2017		4.5					2.6
6/30/2017	3.7						
10/3/2017					1.1	1.7	
10/4/2017		4.7		6.8			2.6
10/5/2017	3.8		7				
6/5/2018					1.1		
6/6/2018						1.4	2.7
6/7/2018			6.8				
6/8/2018	3.4						
6/11/2018		4.9		6.8			
9/25/2018		5.6	7.9	7.8			3.6
10/1/2018	3.8				1.1	1.4	
3/28/2019					1.4	1.5	
3/29/2019	4.2						
4/2/2019		4.8					
4/3/2019			6.9	6.3			3.1
9/24/2019					1.1	1.3	
9/25/2019	4.8	5.7					2.8
9/26/2019			7	7.1			
3/18/2020	5.2					1.4	
3/19/2020					1.1		
3/24/2020		5	7	6.8			2.7
9/23/2020		6.6	7.2	7.2	0.99 (J)	1.2	
9/24/2020							2.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	5.3						
3/2/2021	4.9						
3/3/2021		7.1	7	7.2	0.96 (J)	1.2	2.7
8/19/2021	5				1.1	1.3	
8/26/2021				7.3			
8/27/2021		8.5	7.4				2.8
2/9/2022		10.9	7.5	7	1	1.3	2.8
2/10/2022	4.7						
8/30/2022		12	7.9	7	1.3		
8/31/2022	4.6					1.5	2.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						1.3	
6/2/2016			1.9		1.4		
6/7/2016	2.8						
7/25/2016			1.7			1.3	
7/26/2016					1.6		
7/28/2016	2.6						
9/14/2016		1.1				1.3	
9/15/2016					1.5		
9/19/2016	2.4		1.6				
11/1/2016			1.8		1.7	1.4	
11/3/2016	2.9						
11/4/2016		1.4					
12/15/2016		2.9					
1/11/2017					1.2	1.1	
1/13/2017	2.5						
1/16/2017		0.98	1.7				
2/21/2017			1.7				
3/1/2017						1.1	
3/2/2017					1.2		
3/3/2017		1.1					
3/6/2017	2.1						
4/26/2017	2.1		1.7		1.2	1.1	
4/28/2017		0.91					
5/26/2017		0.93					
6/28/2017		1			1.3	1.2	
6/29/2017	2.8						
6/30/2017			1.8				
10/3/2017	2.2	1.2					
10/4/2017			1.8		1.5	1.2	
10/11/2017				2.4			
10/12/2017							3.8
11/20/2017				1.8			4.4
1/10/2018							4.6
1/11/2018				1.6			
2/19/2018							4.6
2/20/2018				2			
4/3/2018				3.3			5.9
6/5/2018	1.7						
6/7/2018		1			1.2		
6/8/2018						1.2	
6/11/2018			2				
6/28/2018				2.1			5
8/7/2018				1.2			4.3
9/24/2018				1.3			4.9
9/25/2018	2.2						
10/1/2018		1.1			1.5	1.2	
10/2/2018			1.8				
3/26/2019							4.4
3/27/2019				1.4			
3/29/2019		1.2					
4/1/2019			1.7		1.2	1.1	
4/2/2019	2.5						

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	3.1	0.95 (J)					
9/25/2019			1.6		1.1	1.1	
10/9/2019				2.1			5.1
3/19/2020		0.97 (J)	1.8		1.2	1.1	
3/24/2020	2.8						4.7
3/25/2020				1.9			
9/23/2020		0.88 (J)			1.1	1	
9/24/2020	2		1.5	2.7			5
3/1/2021			1.6				
3/3/2021		0.86 (J)			1.1	0.99 (J)	
3/4/2021	1.8			4.9			4.9
8/19/2021			1.6		1.1		
8/26/2021				7.2			
8/27/2021		0.99 (J)				1.1	
9/1/2021	1.8						
9/3/2021							5.5
2/8/2022				7.4			6.2
2/9/2022	1.7	1 (J)			1.1	1.1	
2/11/2022			2.1				
8/30/2022	2.4	1.2					
8/31/2022			1.8	6.7	1.3	1.3	6.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		3.7	7.2	4.3
7/26/2016		3.6	6.6	4.4
8/30/2016	5.2			
9/14/2016		3.4	6.6	3.8
11/2/2016		4.5	7.6	
11/4/2016				4.8
11/14/2016	6.4			
1/12/2017			6.8	3.8
1/13/2017		4.2		
2/24/2017	5.5			
3/6/2017		3.6		
3/7/2017			6.8	4.5
5/1/2017		4.3	7.2	
5/2/2017				4.6
5/8/2017	5.8			
6/27/2017			7	4.3
6/29/2017		4.2		
7/11/2017	5.8			
10/3/2017			6.5	4.2
10/5/2017		4.7		
10/10/2017	5.9			
4/2/2018	4.8			
6/6/2018			4.7	
6/7/2018		4.4		4.5
9/19/2018	4			
9/26/2018		4.8	4.8	5.1
3/27/2019	4.3			
4/3/2019		4.3	4	4.2
9/24/2019			3.7	4.5
9/25/2019		4.5		
10/8/2019	4.4			
3/17/2020	4.1			
3/24/2020			3.5	4.3
3/25/2020		3.9		
9/22/2020	4.2	4.5	3.6	4.2
3/1/2021	3.7			
3/2/2021			3.2	4.3
3/3/2021		4.1		
8/19/2021	3.5			
8/26/2021		4.4	3.4	4.3
2/8/2022	3.2			
2/10/2022			3.2	4.4
2/11/2022		4.1		
8/30/2022			3.5	4.4
8/31/2022	3.5	4.4		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	0.01						
9/12/2001	<0.005						
9/3/2002	<0.005						
7/29/2003	<0.005						
12/5/2003	<0.005						
9/22/2004	0.0067						
5/1/2007		0.0029					
9/11/2007		0.0084					
3/20/2008		0.0027					
8/27/2008		0.0026					
3/3/2009		0.0022					
11/18/2009		0.0036					
3/3/2010		<0.005					
9/8/2010		<0.005					
11/22/2010				<0.005		<0.005	
1/4/2011				<0.005		0.0062	
2/17/2011				<0.005		<0.005	
3/10/2011		<0.005					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.005
9/8/2011		<0.005	<0.005				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<0.005		<0.005		<0.005
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<0.005				<0.005
2/6/2013		<0.005		<0.005	<0.005	<0.005	
8/12/2013		<0.005					
8/13/2013			<0.005	0.0017	0.0019		
8/14/2013						<0.005	0.0016
2/4/2014			<0.005	<0.005		<0.005	
2/5/2014		0.0059			0.0023		0.0018
8/4/2014					0.002	<0.005	0.0029
8/5/2014		<0.005	<0.005	<0.005			
2/2/2015			0.0028	<0.005		<0.005	
2/3/2015					0.0014		0.0017
2/4/2015		<0.005					
8/3/2015		0.0011 (J)			0.0012 (JD)	<0.005 (D)	0.0028 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		<0.005	<0.005		0.0017	<0.005	0.0028
2/17/2016				<0.005			
8/31/2016		<0.005	0.0012 (J)	<0.005	0.0013 (J)		
9/1/2016						<0.005	0.0021 (J)
11/28/2016		<0.005		<0.005			
11/29/2016			0.0009 (J)				
11/30/2016					0.001 (J)	0.0013 (J)	
12/1/2016							0.0017 (J)
2/22/2017		<0.005		<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			0.001 (J)		0.0012 (J)		
2/24/2017						<0.005	0.0018 (J)
5/8/2017		<0.005					
5/9/2017			0.0011 (J)		0.0016 (J)		
5/10/2017				0.0008 (J)		0.0007 (J)	0.0024 (J)
7/17/2017		<0.005					0.0017 (J)
7/18/2017			0.0008 (J)	<0.005	0.0009 (J)	0.0011 (J)	
10/16/2017		<0.005					0.0023 (J)
10/17/2017			0.001 (J)	<0.005		<0.005	
10/18/2017					0.001 (J)		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		<0.005
8/6/2018		<0.005					
8/7/2018			<0.005		<0.005		0.0024 (J)
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.0019 (J)
6/12/2019		<0.005		<0.005		<0.005	
6/13/2019			0.0009 (J)		0.00073 (J)		0.0018 (J)
8/19/2019		<0.005				0.00051 (J)	
8/20/2019			0.0011 (J)	<0.005			
8/21/2019					0.001 (J)		0.0024 (J)
10/8/2019		<0.005					
10/9/2019			0.0012 (J)	0.00059 (J)			0.0024 (J)
10/10/2019					0.0014 (J)	0.00057 (J)	
3/17/2020		<0.005	0.001 (J)		0.0013 (J)		
3/18/2020				0.0004 (J)		<0.005	0.0023 (J)
8/26/2020		<0.005					
8/27/2020			0.0013 (J)				0.0022 (J)
8/28/2020				0.00057 (J)	0.00088 (J)	<0.005	
9/22/2020		<0.005	0.0012 (J)	<0.005	0.0011 (J)	<0.005	
9/23/2020							0.002 (J)
3/1/2021			0.0012 (J)	<0.005		<0.005	
3/2/2021		<0.005			0.001 (J)		0.0021 (J)
8/18/2021			0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)
8/20/2021		<0.005					
2/8/2022		<0.005	0.002 (J)		0.0011 (J)	<0.005	
2/9/2022				<0.005			0.0022 (J)
8/30/2022		<0.005	0.0015 (J)		<0.005	<0.005	0.0019 (J)
8/31/2022				<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.005						
11/18/2009	<0.005						
1/5/2010	<0.005						
3/3/2010	<0.005						
9/7/2010	<0.005						
3/10/2011	<0.005						
9/8/2011	0.0018						
3/5/2012	<0.005						
9/5/2012	0.0013						
2/5/2013	<0.005						
8/13/2013	0.0025						
2/4/2014	0.0013						
8/5/2014	0.0018						
2/3/2015	0.0015						
8/4/2015	0.0028						
2/16/2016	0.001 (J)						
6/1/2016						0.0035	<0.005
6/2/2016		<0.005					
6/6/2016				0.0012 (J)	<0.005		
6/7/2016			<0.005				
7/25/2016							<0.005
7/26/2016		<0.005				<0.005	
7/27/2016			0.0008 (J)	0.0007 (J)	0.0006 (J)		
9/1/2016	0.0015 (J)						
9/13/2016						<0.005	<0.005
9/15/2016		<0.005					
9/16/2016			<0.005		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	0.0014 (J)						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	<0.005	
1/16/2017							<0.005
2/23/2017	0.0017 (J)						
3/1/2017				0.0012 (J)	<0.005		
3/2/2017			0.001 (J)			0.0009 (J)	0.0004 (J)
3/8/2017		<0.005					
4/26/2017		<0.005		0.0005 (J)	0.0003 (J)		
4/27/2017						<0.005	<0.005
5/2/2017			0.0007 (J)				
5/10/2017	0.0015 (J)						
6/27/2017						<0.005	<0.005
6/28/2017				0.0006 (J)	<0.005		
6/29/2017			0.0006 (J)				
6/30/2017		<0.005					
7/18/2017	0.0012 (J)						
10/18/2017	0.0012 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
8/6/2018	<0.005						
2/25/2019	<0.005						
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	0.0021 (J)
3/29/2019		<0.005					
6/13/2019	0.00089 (J)						
8/20/2019	0.0017 (J)						
9/24/2019						0.00072 (J)	0.0028 (J)
9/25/2019		<0.005					
10/8/2019	0.0014 (J)						
2/10/2020						0.00042 (J)	<0.005
2/11/2020			0.00087 (J)	0.001 (J)	0.00088 (J)		
2/12/2020		<0.005					
3/17/2020	0.0013 (J)						
3/18/2020		<0.005					0.00044 (J)
3/19/2020						0.00084 (J)	
3/24/2020			0.00087 (J)	0.00095 (J)	0.0011 (J)		
8/27/2020	0.0012 (J)						
9/23/2020	0.0015 (J)		0.00098 (J)	0.00092 (J)	0.0012 (J)	0.00062 (J)	0.00058 (J)
9/25/2020		<0.005					
2/9/2021				0.00083 (J)	0.0013 (J)		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0014 (J)		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005	<0.005
8/18/2021	0.0015 (J)						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	0.0017 (J)						
2/9/2022			<0.005	<0.005	0.0014 (J)	<0.005	<0.005
2/10/2022		<0.005					
8/30/2022	0.0016 (J)		<0.005	<0.005	0.0015 (J)	0.0011 (J)	
8/31/2022		<0.005					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		0.0013 (J)	
6/7/2016	<0.005	<0.005					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	0.0005 (J)						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	<0.005		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			<0.005	<0.005			
2/21/2017				<0.005			
3/1/2017							0.0004 (J)
3/2/2017						0.0006 (J)	
3/3/2017			0.0005 (J)				
3/6/2017	<0.005	<0.005					
4/26/2017	0.0007 (J)	<0.005		0.0016 (J)		<0.005	<0.005
4/28/2017			0.0004 (J)				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	0.0005 (J)	<0.005					
6/30/2017				<0.005			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
2/26/2019				<0.005			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	<0.005					
3/29/2019			<0.005				
4/1/2019				<0.005		<0.005	<0.005
8/21/2019					<0.005		
9/24/2019			<0.005				
9/25/2019				<0.005		0.0014 (J)	0.0019 (J)
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	0.00045 (J)	<0.005		<0.005	<0.005	<0.005	
3/19/2020			0.00048 (J)	<0.005		<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/24/2020	0.00077 (J)	<0.005					
3/25/2020					<0.005		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	0.00076 (J)	<0.005		<0.005	<0.005		
2/9/2021	0.00056 (J)	<0.005					
2/10/2021			<0.005		<0.005	<0.005	<0.005
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		<0.005			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					<0.005		
2/9/2022	<0.005	<0.005	<0.005			<0.005	<0.005
2/11/2022				<0.005			
8/30/2022		<0.005	<0.005				
8/31/2022	<0.005			<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	<0.005	<0.005
7/26/2016			<0.005	<0.005	<0.005
8/30/2016		<0.005			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		0.0093 (J)			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		<0.005			
3/6/2017			<0.005		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	0.0004 (J)	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				<0.005	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		<0.005			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		<0.005			
9/24/2018	<0.005				
3/4/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	0.00053 (J)				
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)		<0.005	<0.005	0.00043 (J)
3/24/2020	0.00055 (J)			<0.005	0.0014 (J)
3/25/2020			0.00058 (J)		
8/27/2020		<0.005			
9/22/2020		<0.005	<0.005	0.0011 (J)	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		<0.005			
3/2/2021				<0.005	<0.005
3/3/2021			0.0013 (J)		
3/4/2021	<0.005				
8/19/2021		<0.005			
8/26/2021			<0.005	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	<0.005	<0.005			
2/10/2022				<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	0.013						
9/20/1999	<0.005						
9/12/2001	0.0024						
9/3/2002	<0.005						
7/29/2003	0.002						
12/5/2003	<0.005						
9/22/2004	<0.005						
5/1/2007		0.0067					
9/11/2007		<0.005					
3/20/2008		<0.005					
8/27/2008		<0.005					
3/3/2009		<0.005					
11/18/2009		<0.005					
3/3/2010		0.0027					
9/8/2010		0.007					
11/22/2010				0.038		<0.005	
1/4/2011				0.049		0.0036	
2/17/2011				0.044		0.0035	
3/10/2011		<0.005					
3/11/2011				0.038		0.0053	
3/28/2011				0.029		<0.005	
9/7/2011				0.031	<0.005	0.0033	<0.005
9/8/2011		<0.005	0.015				
3/4/2012						0.0032	
3/5/2012		0.0032	<0.005		<0.005		<0.005
3/6/2012				0.021			
9/5/2012			0.0018		<0.005		<0.005
9/10/2012		<0.005				0.0067	
9/11/2012				0.017			
2/5/2013			0.0013				<0.005
2/6/2013		<0.005		0.025	<0.005	0.0024	
8/12/2013		0.0045					
8/13/2013			<0.005	0.023	<0.005		
8/14/2013						0.0014	<0.005
2/4/2014			<0.005	0.019		<0.005	
2/5/2014		<0.005			<0.005		<0.005
8/4/2014					<0.005	<0.005	<0.005
8/5/2014		0.0027	<0.005	0.023			
2/2/2015			0.0015	0.022		<0.005	
2/3/2015					<0.005		<0.005
2/4/2015		0.0016					
8/3/2015		0.002			<0.005 (D)	<0.005 (D)	<0.005 (D)
8/4/2015			<0.005 (D)	0.021			
2/16/2016		0.0027	<0.005		<0.005	0.0082	<0.005
2/17/2016				0.024			
8/31/2016		0.0053 (J)	0.0006 (J)	0.0239	<0.005		
9/1/2016						0.0023 (J)	<0.005
11/28/2016		0.0036 (J)		0.0189			
11/29/2016			<0.005				
11/30/2016					<0.005	0.0008 (J)	
12/1/2016							<0.005
2/22/2017		0.0049 (J)		0.0184			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			0.0009 (J)		<0.005		
2/24/2017						0.0025 (J)	<0.005
5/8/2017		0.0059 (J)					
5/9/2017			0.0008 (J)		<0.005		
5/10/2017				0.0213		<0.005	<0.005
7/17/2017		0.0046 (J)					<0.005
7/18/2017			0.0032 (J)	0.0261	<0.005	0.0005 (J)	
10/16/2017		0.0034 (J)					<0.005
10/17/2017			0.0007 (J)	0.0182		0.0006 (J)	
10/18/2017					<0.005		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		<0.005
8/6/2018		0.003 (J)					
8/7/2018			<0.005		<0.005		<0.005
8/8/2018				0.014		0.001 (J)	
2/25/2019		0.001 (J)					
2/26/2019			<0.005	0.029	<0.005	<0.005	<0.005
6/12/2019		0.003 (J)		0.013		0.00078 (J)	
6/13/2019			0.00033 (J)		0.01		<0.005
8/19/2019		0.0035 (J)				0.001 (J)	
8/20/2019			0.00079 (J)	0.014			
8/21/2019					0.0016 (J)		0.00034 (J)
10/8/2019		0.0039 (J)					
10/9/2019			0.00064 (J)	0.024			0.00031 (J)
10/10/2019					<0.005	0.00099 (J)	
3/17/2020		0.003 (J)	0.00054 (J)		0.011		
3/18/2020				0.019		0.0031 (J)	0.00044 (J)
8/26/2020		0.2 (o)					
8/27/2020			0.00081 (J)				<0.005
8/28/2020				0.0072	0.0041 (J)	0.00049 (J)	
9/22/2020		0.16 (o)	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)	
9/23/2020							<0.005
3/1/2021			0.00083 (J)	0.00074 (J)		0.0016 (J)	
3/2/2021		0.21 (o)			0.0086		0.00039 (J)
8/18/2021			0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)
8/20/2021		0.074 (o)					
2/8/2022		0.072 (o)	0.0019 (J)		0.0074	0.0034 (J)	
2/9/2022				0.00085 (J)			0.00064 (J)
8/30/2022		0.075 (o)	0.00087 (J)		0.0021 (J)	0.002 (J)	0.00077 (J)
8/31/2022				0.0036 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.005						
11/18/2009	<0.005						
1/5/2010	<0.005						
3/3/2010	<0.005						
9/7/2010	<0.005						
3/10/2011	<0.005						
9/8/2011	<0.005						
3/5/2012	<0.005						
9/5/2012	<0.005						
2/5/2013	<0.005						
8/13/2013	<0.005						
2/4/2014	<0.005						
8/5/2014	<0.005						
2/3/2015	<0.005						
8/4/2015	0.0014						
2/16/2016	<0.005						
6/1/2016						<0.005	0.00082 (J)
6/2/2016		<0.005					
6/6/2016				<0.005	0.00061 (J)		
6/7/2016			<0.005				
7/25/2016							0.0008 (J)
7/26/2016		<0.005				<0.005	
7/27/2016			<0.005	<0.005	0.0004 (J)		
9/1/2016	<0.005						
9/13/2016						<0.005	0.0009 (J)
9/15/2016		<0.005					
9/16/2016			<0.005		0.0008 (J)		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							0.0025 (J)
11/29/2016	<0.005						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	<0.005	
1/16/2017							0.0027 (J)
2/23/2017	<0.005						
3/1/2017				<0.005	<0.005		
3/2/2017			<0.005			<0.005	0.0022 (J)
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						<0.005	0.0018 (J)
5/2/2017			<0.005				
5/10/2017	<0.005						
6/27/2017						<0.005	0.0023 (J)
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	<0.005						
10/18/2017	<0.005						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
6/5/2018						<0.005	
6/6/2018							<0.005
6/7/2018				<0.005			
6/8/2018		<0.005					
6/11/2018			<0.005		<0.005		
8/6/2018	<0.005						
9/25/2018			<0.005	<0.005	<0.005		
10/1/2018		<0.005				<0.005	0.00059 (J)
2/25/2019	<0.005						
2/26/2019		<0.005					
2/27/2019						<0.005	0.00064 (J)
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	0.00091 (J)
3/29/2019		<0.005					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	<0.005						
8/20/2019	<0.005						
9/24/2019						<0.005	0.0013 (J)
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	<0.005						
2/10/2020						<0.005	0.0016 (J)
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020		<0.005					
3/17/2020	<0.005						
3/18/2020		<0.005					0.00087 (J)
3/19/2020						<0.005	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	<0.005						
9/23/2020	<0.005		<0.005	<0.005	<0.005	<0.005	0.0013 (J)
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						0.00086 (J)	0.0028 (J)
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	0.003 (J)
8/18/2021	<0.005						
8/19/2021		<0.005				0.00055 (J)	0.0017 (J)
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			<0.005	<0.005	<0.005	0.00072 (J)	0.0023 (J)
2/10/2022		<0.005					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					0.00085 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				0.035		<0.005	
6/7/2016	<0.005	0.0056					
7/25/2016				0.0312			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		0.0032 (J)					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	0.0047 (J)		0.0275			
11/1/2016				0.0255		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		0.013					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	0.011					
1/16/2017			<0.005	0.0245			
2/21/2017				0.0272			
3/1/2017							<0.005
3/2/2017						<0.005	
3/3/2017			<0.005				
3/6/2017	<0.005	0.011					
4/26/2017	<0.005	0.009 (J)		0.0244		<0.005	<0.005
4/28/2017			<0.005				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	<0.005	0.0093 (J)					
6/30/2017				0.0233			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				0.023			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/5/2018		0.0041 (J)					
6/6/2018	<0.005						
6/7/2018			<0.005			<0.005	
6/8/2018							<0.005
6/11/2018				0.023			
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
9/25/2018	<0.005	0.0044 (J)					
10/1/2018			<0.005			<0.005	<0.005
10/2/2018				0.022			
2/26/2019				0.021			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	0.0039 (J)					
3/29/2019			<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				0.022		<0.005	<0.005
4/2/2019		0.0039 (J)					
4/3/2019	<0.005						
8/21/2019					0.00034 (J)		
9/24/2019		0.0032 (J)	<0.005				
9/25/2019	<0.005			0.016		<0.005	<0.005
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	<0.005	0.0081		0.014	0.00034 (J)	<0.005	
3/19/2020			<0.005	0.014		<0.005	<0.005
3/24/2020	<0.005	0.0061					
3/25/2020					0.00034 (J)		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	<0.005	0.0079		0.0064	0.00053 (J)		
2/9/2021	<0.005	0.009					
2/10/2021			<0.005		0.00098 (J)	<0.005	<0.005
2/11/2021				0.0078			
3/1/2021				0.0061			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		0.0065			0.00071 (J)		
8/19/2021				0.0052		<0.005	
8/26/2021					0.0011 (J)		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		0.0068					
2/8/2022					0.0012 (J)		
2/9/2022	<0.005	0.0078	<0.005			<0.005	<0.005
2/11/2022				0.0038 (J)			
8/30/2022		0.0066	<0.005				
8/31/2022	<0.005			0.004 (J)	0.00085 (J)	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			0.00082 (J)	<0.005	<0.005
7/26/2016			0.0012 (J)	<0.005	<0.005
8/30/2016		0.0073 (J)			
9/14/2016			0.0006 (J)	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		0.0115			
1/12/2017				<0.005	<0.005
1/13/2017			0.0029 (J)		
2/24/2017		0.0106			
3/6/2017			0.0006 (J)		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		0.0099 (J)			
6/27/2017				<0.005	<0.005
6/29/2017			0.0005 (J)		
7/11/2017		0.0096 (J)			
10/10/2017		0.0036 (J)			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				<0.005	
6/7/2018			0.00058 (J)		<0.005
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		0.0036 (J)			
9/24/2018	<0.005				
9/26/2018			<0.005	<0.005	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			0.00083 (J)	<0.005	<0.005
8/20/2019		0.00092 (J)			
8/21/2019	<0.005				
9/24/2019				<0.005	<0.005
9/25/2019			<0.005		
10/8/2019		0.0014 (J)			
10/9/2019	<0.005				
2/12/2020	<0.005		<0.005	0.00037 (J)	<0.005
3/17/2020		0.0017 (J)			
3/24/2020	<0.005			0.00035 (J)	<0.005
3/25/2020			0.00056 (J)		
8/27/2020		0.0011 (J)			
9/22/2020		0.00097 (J)	<0.005	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		0.001 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				<0.005	<0.005
3/3/2021			<0.005		
3/4/2021	<0.005				
8/19/2021		0.00099 (J)			
8/26/2021			0.00042 (J)	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	<0.005	0.0013 (J)			
2/10/2022				<0.005	<0.005
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	0.00096 (J)	<0.005		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	1.2						
11/28/2016	0.264 (U)		0.387 (U)				
11/29/2016		0.551 (U)					0.232 (U)
11/30/2016				0.0236 (U)	0.477 (U)		
12/1/2016						0.0588 (U)	
2/22/2017	1.06 (U)		0.739 (U)				
2/23/2017		0.504 (U)		0.728 (U)			1.18 (U)
2/24/2017					0.305 (U)	0.487 (U)	
5/8/2017	0.187 (U)						
5/9/2017		0.434 (U)		0.0367 (U)			
5/10/2017			0.458 (U)		0.0659 (U)	0.289 (U)	0.658 (U)
7/17/2017	1.42					0.528 (U)	
7/18/2017		1.37	0.708 (U)	0.237 (U)	0.199 (U)		0.797 (U)
10/16/2017	1.17					0.558 (U)	
10/17/2017		0.937 (U)	0.402 (U)		0.294 (U)		
10/18/2017				0.706 (U)			0.239 (U)
2/19/2018	1.58 (D)						0.973 (D)
2/20/2018			1.64 (D)		1.03 (UD)		
2/21/2018		0.817 (UD)		0.526 (UD)		1.13 (UD)	
8/6/2018	0.196 (U)						0.866 (U)
8/7/2018		0.578 (U)		0.376 (U)		0.51 (U)	
8/8/2018			2.01		0.0378 (U)		
8/19/2019	1.39				0.637 (U)		
8/20/2019		1.25 (U)	1.22				0.409 (U)
8/21/2019				0.774 (U)		1.82	
10/8/2019	1.32 (U)						0.91 (U)
10/9/2019		0.482 (U)	0.71 (U)			0.498 (U)	
10/10/2019				0.433 (U)	0.525 (U)		
3/17/2020	1 (U)	1.4		2.84			2.5
3/18/2020			1.3		0.866 (U)	0.788 (U)	
8/26/2020	1.75 (U)						
8/27/2020		0.413 (U)				0.691 (U)	0.514 (U)
8/28/2020			1.52 (U)	0.494 (U)	0.336 (U)		
9/22/2020	0.688 (U)	0.7 (U)	2.09	1.24 (U)	0.509 (U)		
9/23/2020						0 (U)	0.96 (U)
3/1/2021		0.966 (U)	0.976		0.349 (U)		
3/2/2021	0.948 (U)			1.13 (U)		0.686 (U)	
3/3/2021							0.721 (U)
8/18/2021		0.713 (U)	0.583 (U)	0.544 (U)	0.109 (U)	0.437 (U)	0.352 (U)
8/20/2021	0.528 (U)						
2/8/2022	0.462 (U)	0.649 (U)		0.389 (U)	0.319 (U)		0.413 (U)
2/9/2022			0.42 (U)			0.48 (U)	
8/30/2022	1.52	0.476 (U)		0.884 (U)	0.433 (U)	1.36	0.861 (U)
8/31/2022			1.55				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.321 (U)	0.42	
6/2/2016	0.329 (U)						
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)					0.0191 (U)
7/25/2016						1.83	
7/26/2016	1.51				0.707 (U)		
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)			0.541 (U)
9/13/2016					1.22	0.841	
9/15/2016	1.04 (U)						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58				0.826 (U)
11/1/2016					0.805 (U)		
11/2/2016	0.496 (U)						0.791 (U)
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)			
11/4/2016						0.166 (U)	
1/10/2017	0.376 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)	0.705 (U)		
1/13/2017							0.296 (U)
1/16/2017						0	
3/1/2017			0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)			0.251 (U)	0.504 (U)	
3/6/2017							0.518 (U)
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)		0.507 (U)	0.264 (U)			0.282 (U)
4/27/2017					1.08	0.593 (U)	
5/2/2017		0.111 (U)					
6/27/2017					1.02 (U)	0.657 (U)	
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)					1.12
6/30/2017	0.994						
3/27/2018	0.189 (U)					0.39 (U)	
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018					0.503 (U)		1.73
6/5/2018					0.771 (U)		
6/6/2018						2.8	0.694 (U)
6/7/2018			0.668 (U)				
6/8/2018	0.218 (U)						
6/11/2018		0.901 (U)		0.649 (U)			
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)			0.772 (U)
10/1/2018	1.24				0.783 (U)	1.06 (U)	
2/26/2019	0.202 (U)						
2/27/2019					1.21 (U)	0.637 (U)	
3/5/2019		0.272 (U)		0.474 (U)			0.84 (U)
3/6/2019			0.714 (U)				
3/28/2019					1.13 (U)	0.125 (U)	
3/29/2019	0 (U)						
4/2/2019		0.847 (U)					
4/3/2019			0.385 (U)	0.429 (U)			1.01
9/24/2019					1.22 (U)	0.949 (U)	
9/25/2019	0.707 (U)	0.412 (U)					1.18 (U)
9/26/2019			0.386 (U)	0.222 (U)			
2/10/2020					1.41	1.25 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/11/2020		0.461 (U)	1.48	0.597 (U)			
2/12/2020	1.07 (U)						1.11 (U)
3/18/2020	0.207 (U)					0.458 (U)	
3/19/2020					1.1		
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)			1.88
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)	1.35 (U)	0.00884 (U)	
9/24/2020							0.611 (U)
9/25/2020	0.603 (U)						
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)			0.284 (U)
2/10/2021	0.353 (U)						
2/12/2021					0.366 (U)	0.458 (U)	
3/2/2021	0.71 (U)						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.492 (U)	0.105 (U)	0.133 (U)
8/19/2021	0.786 (U)				1.17 (U)	0.0732 (U)	
8/26/2021				0.686 (U)			
8/27/2021		0.9 (U)	0.761 (U)				0.779 (U)
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	1.19	0.422 (U)	0.504 (U)
2/10/2022	0 (U)						
8/30/2022		1.08	1.01	0.611 (U)	0.827		
8/31/2022	0.421 (U)					0.49 (U)	0.184 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.896	
6/2/2016			0.0652 (U)		2.51		
6/7/2016	0.347						
7/25/2016			3.01			2.28	
7/26/2016					3.82		
7/28/2016	0.815 (U)						
9/14/2016		0.98 (U)				0.821 (U)	
9/15/2016					4.24		
9/19/2016	0.862 (U)		0.871 (U)				
11/1/2016			0.307 (U)		3.92	0.585 (U)	
11/3/2016	0.797 (U)						
11/4/2016		0.277 (U)					
12/15/2016		0.071 (U)					
1/11/2017					2.52	1.22	
1/13/2017	0.72 (U)						
1/16/2017		0.44 (U)	0.284 (U)				
2/21/2017			0.503 (U)				
3/1/2017						0.877 (U)	
3/2/2017					3.13		
3/3/2017		0.448 (U)					
3/6/2017	0.518 (U)						
4/26/2017	1.13 (U)		0.204 (U)		2.35	0.672 (U)	
4/28/2017		0.548 (U)					
5/26/2017		0 (U)					
6/28/2017		0.608 (U)			2.6	1.07 (U)	
6/29/2017	0.841 (U)						
6/30/2017			0.738 (U)				
10/11/2017				0.586 (U)			
10/12/2017							1.49
11/20/2017				0.816 (U)			0.918 (U)
1/10/2018							1.05
1/11/2018				0.841 (U)			
2/19/2018							2.05
2/20/2018				1.58			
3/27/2018			0.31 (U)				
3/28/2018		0.412 (U)			3	0.65 (U)	
3/29/2018	1.91						
4/3/2018				0.385 (U)			0.68 (U)
6/5/2018	1.39						
6/7/2018		0.73 (U)			2.79		
6/8/2018						1.89	
6/11/2018			0.608 (U)				
6/28/2018				0.283 (U)			1.28
8/7/2018				0.332 (U)			1.16
9/24/2018				0.767 (U)			0.965 (U)
9/25/2018	1.62						
10/1/2018		0.756 (U)			3.14	1.58	
10/2/2018			0.97 (U)				
2/26/2019			0.524 (U)				
2/27/2019		0.635 (U)			3.79	3.67	
3/5/2019	0.985 (U)						
3/29/2019		0.224 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
4/1/2019			1.02 (U)		4.33	2.28	
4/2/2019	1.42						
8/21/2019				1.01 (U)			1.24 (U)
9/24/2019	1.35	0.429 (U)					
9/25/2019			1.02 (U)		4.2	1.6	
10/8/2019				1.02 (U)			0.866 (U)
2/11/2020		0.817 (U)			3.87	1.85	
2/12/2020	1.61		0.301 (U)	0.45 (U)			1.83
3/19/2020		0.715 (U)	1		3.96	2.2	
3/24/2020	1.24 (U)						1.27 (U)
3/25/2020				0.377 (U)			
9/23/2020		0.565 (U)			4.14	1.14 (U)	
9/24/2020	1.8		0.684 (U)	0.568 (U)			0.634 (U)
2/9/2021	1.24						
2/10/2021		1.04 (U)		0.518 (U)	3.65	2.46	0.783 (U)
2/11/2021			0.678 (U)				
3/1/2021			0.412 (U)				
3/3/2021	1.2	0.459 (U)			3.58	2.03	
3/4/2021				0.636 (U)			0.818 (U)
8/19/2021			0.234 (U)		3.53		
8/26/2021				0.674 (U)			
8/27/2021		0.409 (U)				1.34	
9/1/2021	1.86						
9/3/2021							0.971 (U)
2/8/2022				0.834			0.534 (U)
2/9/2022	1.94	0.894 (U)			3.28	1.91	
2/10/2022			0.268 (U)				
8/30/2022	1.27	0.699 (U)					
8/31/2022			0.506 (U)	0.937	2.12	1.33	0.513 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		0.721	5.11	0.614
7/26/2016		1.26	6.92	1.47
8/30/2016	1.09			
9/14/2016		0.901 (U)	3.96	1.27
11/2/2016		1.09 (U)	4.53	
11/4/2016				0.434 (U)
12/15/2016	1 (U)			
1/12/2017			4.43	0.202 (U)
1/13/2017		1.19		
2/24/2017	0.504 (U)			
3/6/2017		0.669 (U)		
3/7/2017			4.8	0.0674 (U)
5/1/2017		0.803 (U)	4.16	
5/2/2017				0.444 (U)
5/8/2017	0.455 (U)			
6/27/2017			2.8	0.77 (U)
6/29/2017		1.35		
7/11/2017	0.471 (U)			
10/10/2017	0.649 (U)			
3/29/2018		0.703 (U)	3.42	0.648 (U)
4/2/2018	0.512 (U)			
6/6/2018			3.99	
6/7/2018		0.628 (U)		0.745 (U)
9/19/2018	0.789 (U)			
9/26/2018		0.756 (U)	2.73	0.377 (U)
3/4/2019		1.21 (U)	4.43	1 (U)
4/3/2019		1.07 (U)	4.79	0.43 (U)
8/20/2019	2.44			
9/24/2019			4.06	0.699 (U)
9/25/2019		1.86		
10/8/2019	1.72			
2/12/2020		1.25	4.02	0.913 (U)
3/17/2020	1.22 (U)			
3/24/2020			3.52	
3/25/2020		0.766 (U)		
8/27/2020	1.26 (U)			
9/22/2020	1.06 (U)	0.795 (U)	2.98	0.428 (U)
2/8/2021			2.89	0.613 (U)
2/9/2021		0.626 (U)		
3/1/2021	1.2			
3/2/2021			1.67	0.579 (U)
3/3/2021		1		
8/19/2021	1.07 (U)			
8/26/2021		1.17 (U)	4.68	0.798 (U)
2/8/2022	0.4 (U)			
2/10/2022			3.33	0.375 (U)
2/11/2022		0.996		
8/30/2022			5.34	0.72 (U)
8/31/2022	0.714 (U)	0.962		

Time Series

Constituent: Copper (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	<0.005						
9/12/2001	0.004						
9/3/2002	0.01						
7/29/2003	0.011						
12/5/2003	0.0034						
9/22/2004	0.0033						
5/1/2007		0.0047					
9/11/2007		<0.005					
3/20/2008		<0.005					
8/27/2008		0.0074					
3/3/2009		<0.005					
11/18/2009		0.0029					
3/3/2010		0.005					
9/8/2010		<0.005					
11/22/2010				<0.005		<0.005	
1/4/2011				<0.005		0.0049	
2/17/2011				<0.005		<0.005	
3/10/2011		0.0029					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.005
9/8/2011		<0.005	<0.005				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<0.005		0.016		<0.005
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<0.005				<0.005
2/6/2013		<0.005		<0.005	<0.005	<0.005	
8/12/2013		<0.005					
8/13/2013			<0.005	<0.005	<0.005		
8/14/2013						<0.005	<0.005
2/4/2014			<0.005	<0.005		<0.005	
2/5/2014		<0.005			<0.005		<0.005
8/4/2014					0.0012 (J)	<0.005	0.0015 (J)
8/5/2014		0.005	<0.005	<0.005			
2/2/2015			0.0031 (J)	<0.005		<0.005	
2/3/2015					<0.005		<0.005
2/4/2015		0.0025 (J)					
8/3/2015		0.0014 (J)			<0.005 (D)	<0.005 (D)	<0.005 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		0.0011 (J)	<0.005		0.00082 (J)	0.00088 (J)	<0.005
2/17/2016				<0.005			
2/22/2017		0.0011 (J)		<0.005			
2/23/2017			<0.005		<0.005		
2/24/2017						<0.005	<0.005
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		<0.005
8/6/2018		<0.005					

Time Series

Constituent: Copper (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
8/7/2018			<0.005		<0.005		<0.005
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.005	<0.005	<0.005	<0.005	<0.005
6/12/2019		0.00034 (J)		<0.005		0.00025 (J)	
6/13/2019			<0.005		<0.005		0.00049 (J)
10/8/2019		0.00041 (J)					
10/9/2019			0.00079 (J)	0.00024 (J)			0.00087 (J)
10/10/2019					0.00033 (J)	<0.005	
3/17/2020		0.00078 (J)	0.0004 (J)		0.00039 (J)		
3/18/2020				<0.005		0.00021 (J)	0.00097 (J)
9/22/2020		0.0041 (J)	<0.005	<0.005	<0.005	<0.005	
9/23/2020							<0.005
3/1/2021			<0.005	<0.005		<0.005	
3/2/2021		0.0027 (J)			<0.005		<0.005
8/18/2021			0.00067 (J)	<0.005	<0.005	<0.005	0.0022 (J)
8/20/2021		0.0012 (J)					
2/8/2022		0.0012 (J)	0.00072 (J)		<0.005	<0.005	
2/9/2022				<0.005			0.0014 (J)
8/30/2022		<0.005	<0.005		<0.005	<0.005	<0.005
8/31/2022				<0.005			

Time Series

Constituent: Copper (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R
9/9/2009	0.0028
11/18/2009	0.0027
1/5/2010	0.0035
3/3/2010	<0.005
9/7/2010	<0.005
3/10/2011	<0.005
9/8/2011	<0.005
3/5/2012	<0.005
9/5/2012	<0.005
2/5/2013	<0.005
8/13/2013	<0.005
2/4/2014	<0.005
8/5/2014	0.0012 (J)
2/3/2015	0.0013 (J)
8/4/2015	0.0043 (J)
2/16/2016	<0.005
2/23/2017	0.0018 (J)
2/19/2018	<0.005
8/6/2018	0.0016 (J)
2/25/2019	0.0016 (J)
6/13/2019	0.0011 (J)
10/8/2019	0.0011 (J)
3/17/2020	0.00091 (J)
9/23/2020	<0.005
3/3/2021	<0.005
8/18/2021	0.00083 (J)
2/8/2022	0.0008 (J)
8/30/2022	<0.005

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.14 (J)	0.05 (J)	0.08 (J)	0.07 (J)			
9/1/2016					0.15 (J)	0.03 (J)	0.28 (J)
11/28/2016	0.12 (J)		0.03 (J)				
11/29/2016		0.04 (J)					0.05 (J)
11/30/2016				0.03 (J)	0.11 (J)		
12/1/2016						<0.1	
2/22/2017	0.09 (J)		0.04 (J)				
2/23/2017		0.06 (J)		0.04 (J)			0.07 (J)
2/24/2017					0.08 (J)	0.03 (J)	
5/8/2017	0.05 (J)						
5/9/2017		0.06 (J)		<0.1			
5/10/2017			0.05 (J)		0.04 (J)	<0.1	0.02 (J)
7/17/2017	0.14 (J)					0.37	
7/18/2017		<0.1	<0.1	<0.1	<0.1		<0.1
10/16/2017	0.12 (J)					<0.1	
10/17/2017		<0.1	<0.1		<0.1		
10/18/2017				0.22 (J)			<0.1
2/19/2018	0.17						<0.1
2/20/2018			<0.1		<0.1		
2/21/2018		<0.1		<0.1		<0.1	
8/6/2018	0.087 (J)						<0.1
8/7/2018		<0.1		<0.1		<0.1	
8/8/2018			<0.1		<0.1		
2/25/2019	0.14 (J)						<0.1
2/26/2019		<0.1	<0.1	<0.1	<0.1	0.035 (J)	
6/12/2019	0.12 (J)		0.58		<0.1		
6/13/2019		<0.1		0.58		<0.1	<0.1
8/19/2019	<0.1				<0.1		
8/20/2019		<0.1	<0.1				<0.1
8/21/2019				0.037 (J)		<0.1	
10/8/2019	0.052 (J)						<0.1
10/9/2019		<0.1	<0.1			0.35	
10/10/2019				<0.1	<0.1		
3/17/2020	0.053 (J)	<0.1		0.1 (J)			<0.1
3/18/2020			<0.1		<0.1	<0.1	
8/26/2020	0.068 (J)						
8/27/2020		<0.1				0.064 (J)	<0.1
8/28/2020			<0.1	0.097 (J)	<0.1		
9/22/2020	0.058 (J)	<0.1	<0.1	<0.1	<0.1		
9/23/2020						<0.1	<0.1
3/1/2021		<0.1	<0.1		<0.1		
3/2/2021	0.073 (J)			0.15		0.094 (J)	
3/3/2021							<0.1
8/18/2021		<0.1	<0.1	0.16	<0.1	0.056 (J)	<0.1
8/20/2021	0.06 (J)						
2/8/2022	0.064 (J)	<0.1		0.16	<0.1		<0.1
2/9/2022			<0.1			0.053 (J)	
8/30/2022	0.086 (J)	<0.1		0.14	0.05 (J)	0.11	0.064 (J)
8/31/2022			<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.12 (J)	<0.1	
6/2/2016	<0.1						
6/6/2016			<0.1	<0.1			
6/7/2016		<0.1					<0.1
7/25/2016						0.06 (J)	
7/26/2016	0.02 (J)				0.08 (J)		
7/27/2016		<0.1	<0.1	<0.1			<0.1
9/13/2016					0.11 (J)	<0.1	
9/15/2016	<0.1						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1				<0.1
11/1/2016					<0.1		
11/2/2016	<0.1						<0.1
11/3/2016		<0.1	<0.1	<0.1			
11/4/2016						<0.1	
1/10/2017	<0.1						
1/11/2017		<0.1	<0.1	<0.1	0.05 (J)		
1/13/2017							<0.1
1/16/2017						<0.1	
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1			<0.1	<0.1	
3/6/2017							<0.1
3/8/2017	<0.1						
4/26/2017	<0.1		<0.1	<0.1			<0.1
4/27/2017					0.04 (J)	0.01 (J)	
5/2/2017		<0.1					
6/27/2017					<0.1	<0.1	
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1					<0.1
6/30/2017	<0.1						
10/3/2017					<0.1	<0.1	
10/4/2017		<0.1		<0.1			<0.1
10/5/2017	<0.1		<0.1				
3/27/2018	<0.1					<0.1	
3/28/2018		<0.1	<0.1	<0.1			
3/29/2018					<0.1		<0.1
6/5/2018					0.055 (J)		
6/6/2018						<0.1	<0.1
6/7/2018			<0.1				
6/8/2018	<0.1						
6/11/2018		<0.1		<0.1			
9/25/2018		<0.1	<0.1	<0.1			<0.1
10/1/2018	<0.1				<0.1	<0.1	
2/26/2019	<0.1						
2/27/2019					0.052 (J)	<0.1	
3/5/2019		<0.1		<0.1			<0.1
3/6/2019			<0.1				
3/28/2019					0.036 (J)	<0.1	
3/29/2019	<0.1						
4/2/2019		<0.1					
4/3/2019			<0.1	<0.1			<0.1
9/24/2019					0.063 (J)	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2019	<0.1	<0.1					<0.1
9/26/2019			<0.1	<0.1			
2/10/2020					0.061 (J)	<0.1	
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020	<0.1						<0.1
3/18/2020	<0.1					<0.1	
3/19/2020					0.064 (J)		
3/24/2020		<0.1	<0.1	<0.1			<0.1
9/23/2020		<0.1	<0.1	<0.1	0.058 (J)	<0.1	
9/24/2020							<0.1
9/25/2020	<0.1						
2/9/2021			<0.1	<0.1			<0.1
2/10/2021	<0.1						
2/12/2021					0.068 (J)	<0.1	
3/2/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	0.078 (J)	<0.1	<0.1
8/19/2021	<0.1				0.074 (J)	<0.1	
8/26/2021				<0.1			
8/27/2021		<0.1	<0.1				<0.1
2/9/2022		<0.1	<0.1	<0.1	0.057 (J)	<0.1	<0.1
2/10/2022	<0.1						
8/30/2022		<0.1	<0.1	<0.1	0.093 (J)		
8/31/2022	0.053 (J)					0.065 (J)	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.15 (J)	
6/2/2016			<0.1		0.62		
6/7/2016	<0.1						
7/25/2016			0.06 (J)			0.14 (J)	
7/26/2016					0.49		
7/28/2016	0.02 (J)						
9/14/2016		0.08 (J)				0.18 (J)	
9/15/2016					0.54		
9/19/2016	0.02 (J)		<0.1				
11/1/2016			<0.1		0.68	<0.1	
11/3/2016	<0.1						
11/4/2016		<0.1					
12/15/2016		0.06 (J)					
1/11/2017					0.49	0.09 (J)	
1/13/2017	<0.1						
1/16/2017		0.1 (J)	<0.1				
2/21/2017			<0.1				
3/1/2017						<0.1	
3/2/2017					0.48		
3/3/2017		<0.1					
3/6/2017	<0.1						
4/26/2017	0.04 (J)		<0.1		0.48	0.08 (J)	
4/28/2017		0.06 (J)					
5/26/2017		0.09 (J)					
6/28/2017		0.11 (J)			0.47	0.12 (J)	
6/29/2017	<0.1						
6/30/2017			<0.1				
10/3/2017	<0.1	<0.1					
10/4/2017			<0.1		<0.1	<0.1	
10/11/2017				<0.1			
10/12/2017							<0.1
11/20/2017				<0.1			<0.1
1/10/2018							<0.1
1/11/2018				<0.1			
2/19/2018							<0.1
2/20/2018				0.23			
3/27/2018			<0.1				
3/28/2018		0.31			0.56	<0.1	
3/29/2018	<0.1						
4/3/2018				<0.1			<0.1
6/5/2018	0.13 (J)						
6/7/2018		0.11 (J)			0.48		
6/8/2018						0.2 (J)	
6/11/2018			<0.1				
6/28/2018				<0.1			<0.1
8/7/2018				0.048 (J)			<0.1
9/24/2018				<0.1			<0.1
9/25/2018	0 (J)						
10/1/2018		<0.1			0.44	<0.1	
10/2/2018			<0.1				
2/26/2019			<0.1				
2/27/2019		0.12 (J)			0.53	0.13 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
3/5/2019	0.32						
3/26/2019							<0.1
3/27/2019				<0.1			
3/29/2019		0.13 (J)					
4/1/2019			<0.1		0.45	0.1 (J)	
4/2/2019	0.12 (J)						
8/21/2019				<0.1			<0.1
9/24/2019	0.15 (J)	0.081 (J)					
9/25/2019			<0.1		0.46	0.1 (J)	
10/9/2019				<0.1			<0.1
2/11/2020		0.075 (J)				0.094 (J)	
2/12/2020	0.1 (J)		<0.1	<0.1	0.4		<0.1
3/19/2020		0.093 (J)	<0.1		0.51	0.11 (J)	
3/24/2020	0.081 (J)						<0.1
3/25/2020				<0.1			
9/23/2020		0.08 (J)			0.47	0.098 (J)	
9/24/2020	0.079 (J)		<0.1	<0.1			<0.1
2/9/2021	0.092 (J)						
2/10/2021		0.094 (J)		<0.1	0.43	<0.1	<0.1
2/11/2021			<0.1				
3/1/2021			<0.1				
3/3/2021		0.085 (J)			0.44	0.1	
3/4/2021	0.091 (J)			<0.1			<0.1
8/19/2021			<0.1		0.47		
8/26/2021				0.063 (J)			
8/27/2021		0.12				0.12	
9/1/2021	0.11						
9/3/2021							<0.1
2/8/2022				0.052 (J)			<0.1
2/9/2022	0.1	0.094 (J)			0.43	0.097 (J)	
2/11/2022			<0.1				
8/30/2022	0.1	0.12					
8/31/2022			0.06 (J)	0.065 (J)	0.42	0.13	0.05 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.1	0.11 (J)	<0.1
7/26/2016		<0.1	0.05 (J)	<0.1
8/30/2016	0.09 (J)			
9/14/2016		<0.1	0.04 (J)	<0.1
11/2/2016		<0.1	<0.1	
11/4/2016				<0.1
11/14/2016	0.18 (J)			
1/12/2017			0.04 (J)	<0.1
1/13/2017		<0.1		
2/24/2017	0.05 (J)			
3/6/2017		<0.1		
3/7/2017			<0.1	<0.1
5/1/2017		<0.1	<0.1	
5/2/2017				<0.1
5/8/2017	0.03 (J)			
6/27/2017			<0.1	<0.1
6/29/2017		<0.1		
7/11/2017	0.07 (J)			
10/3/2017			<0.1	<0.1
10/5/2017		<0.1		
10/10/2017	<0.1			
3/29/2018		<0.1	<0.1	<0.1
4/2/2018	<0.1			
6/6/2018			0.15 (J)	
6/7/2018		<0.1		<0.1
9/19/2018	<0.1			
9/26/2018		<0.1	<0.1	<0.1
3/4/2019		<0.1	0.19 (J)	<0.1
3/27/2019	0.081 (J)			
4/3/2019		<0.1	0.047 (J)	<0.1
8/20/2019	<0.1			
9/24/2019			0.05 (J)	<0.1
9/25/2019		<0.1		
10/8/2019	0.034 (J)			
2/12/2020		<0.1	<0.1	<0.1
3/17/2020	<0.1			
3/24/2020			<0.1	<0.1
3/25/2020		<0.1		
8/27/2020	<0.1			
9/22/2020	<0.1	<0.1	0.056 (J)	<0.1
2/8/2021			0.055 (J)	<0.1
2/9/2021		<0.1		
3/1/2021	<0.1			
3/2/2021			<0.1	<0.1
3/3/2021		<0.1		
8/19/2021	<0.1			
8/26/2021		<0.1	0.061 (J)	<0.1
2/8/2022	<0.1			
2/10/2022			0.055 (J)	<0.1
2/11/2022		<0.1		
8/30/2022			0.085 (J)	<0.1
8/31/2022	0.065 (J)	0.061 (J)		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	0.006						
9/20/1999	<0.001						
9/12/2001	0.0042						
9/3/2002	<0.001						
7/29/2003	0.015						
12/5/2003	<0.001						
9/22/2004	<0.001						
5/1/2007		<0.001					
9/11/2007		<0.001					
3/20/2008		<0.001					
8/27/2008		<0.001					
3/3/2009		<0.001					
11/18/2009		<0.001					
3/3/2010		<0.001					
9/8/2010		<0.001					
11/22/2010				<0.001		<0.001	
1/4/2011				<0.001		<0.001	
2/17/2011				<0.001		<0.001	
3/10/2011		<0.001					
3/11/2011				<0.001		<0.001	
3/28/2011				<0.001		<0.001	
9/7/2011				<0.001	<0.001	<0.001	<0.001
9/8/2011		<0.001	<0.001				
3/4/2012						<0.001	
3/5/2012		<0.001	<0.001		<0.001		<0.001
3/6/2012				<0.001			
9/5/2012			<0.001		<0.001		<0.001
9/10/2012		<0.001				<0.001	
9/11/2012				<0.001			
2/5/2013			<0.001				<0.001
2/6/2013		<0.001		<0.001	<0.001	<0.001	
8/12/2013		<0.001					
8/13/2013			<0.001	<0.001	<0.001		
8/14/2013						<0.001	<0.001
2/4/2014			<0.001	<0.001		<0.001	
2/5/2014		<0.001			<0.001		<0.001
8/4/2014					<0.001	<0.001	<0.001
8/5/2014		<0.001	<0.001	<0.001			
2/2/2015			<0.001	<0.001		<0.001	
2/3/2015					<0.001		<0.001
2/4/2015		<0.001					
8/3/2015		<0.001			<0.001 (D)	<0.001 (D)	<0.001 (D)
8/4/2015			<0.001 (D)	<0.001			
2/16/2016		<0.001	<0.001		<0.001	<0.001	<0.001
2/17/2016				<0.001			
8/31/2016		<0.001	<0.001	<0.001	0.0001 (J)		
9/1/2016						<0.001	<0.001
11/28/2016		<0.001		<0.001			
11/29/2016			<0.001				
11/30/2016					<0.001	<0.001	
12/1/2016							<0.001
2/22/2017		<0.001		<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			<0.001		<0.001		
2/24/2017						<0.001	<0.001
5/8/2017		<0.001					
5/9/2017			<0.001		<0.001		
5/10/2017				0.0001 (J)		<0.001	<0.001
7/17/2017		<0.001					<0.001
7/18/2017			<0.001	7E-05 (J)	<0.001	<0.001	
10/16/2017		<0.001					<0.001
10/17/2017			<0.001	<0.001		<0.001	
10/18/2017					8E-05 (J)		
2/19/2018		<0.001					
2/20/2018				<0.001		<0.001	
2/21/2018			<0.001		<0.001		<0.001
8/6/2018		<0.001					
8/7/2018			<0.001		<0.001		<0.001
8/8/2018				<0.001		<0.001	
2/25/2019		<0.001					
2/26/2019			<0.001	<0.001	<0.001	<0.001	<0.001
6/12/2019		<0.001		<0.001		<0.001	
6/13/2019			<0.001		<0.001		<0.001
8/19/2019		<0.001				<0.001	
8/20/2019			<0.001	6.1E-05 (J)			
8/21/2019					8.2E-05 (J)		7E-05 (J)
10/8/2019		<0.001					
10/9/2019			5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)
10/10/2019					<0.001	<0.001	
3/17/2020		<0.001	<0.001		0.00015 (J)		
3/18/2020				<0.001		<0.001	7.9E-05 (J)
8/26/2020		<0.001					
8/27/2020			6.7E-05 (J)				4.9E-05 (J)
8/28/2020				8.4E-05 (J)	5.4E-05 (J)	<0.001	
9/22/2020	0.0001 (J)		<0.001	8.2E-05 (J)	6.4E-05 (J)	4.1E-05 (J)	
9/23/2020							0.00019 (J)
3/1/2021			<0.001	7E-05 (J)		<0.001	
3/2/2021		<0.001			9.6E-05 (J)		5.4E-05 (J)
8/18/2021			<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2021		<0.001					
2/8/2022		<0.001	<0.001		<0.001	<0.001	
2/9/2022				<0.001			<0.001
8/30/2022		<0.001	<0.001		<0.001	<0.001	<0.001
8/31/2022				<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.001						
11/18/2009	<0.001						
1/5/2010	<0.001						
3/3/2010	<0.001						
9/7/2010	<0.001						
3/10/2011	<0.001						
9/8/2011	<0.001						
3/5/2012	<0.001						
9/5/2012	<0.001						
2/5/2013	<0.001						
8/13/2013	<0.001						
2/4/2014	<0.001						
8/5/2014	<0.001						
2/3/2015	<0.001						
8/4/2015	<0.001						
2/16/2016	<0.001						
6/1/2016						0.00056 (J)	<0.001
6/2/2016		<0.001					
6/6/2016				<0.001	<0.001		
6/7/2016			<0.001				
7/25/2016							<0.001
7/26/2016		<0.001				<0.001	
7/27/2016			<0.001	<0.001	<0.001		
9/1/2016	<0.001						
9/13/2016						0.0001 (J)	<0.001
9/15/2016		<0.001					
9/16/2016			<0.001		<0.001		
9/19/2016				<0.001			
11/1/2016						<0.001	
11/2/2016		<0.001					
11/3/2016			<0.001	<0.001	<0.001		
11/4/2016							<0.001
11/29/2016	<0.001						
1/10/2017		<0.001					
1/11/2017			<0.001	<0.001	<0.001	<0.001	
1/16/2017							<0.001
2/23/2017	<0.001						
3/1/2017				<0.001	<0.001		
3/2/2017			8E-05 (J)			0.0001 (J)	<0.001
3/8/2017		0.0001 (J)					
4/26/2017		<0.001		<0.001	<0.001		
4/27/2017						<0.001	<0.001
5/2/2017			<0.001				
5/10/2017	<0.001						
6/27/2017						<0.001	<0.001
6/28/2017				<0.001	0.0001 (J)		
6/29/2017			8E-05 (J)				
6/30/2017		<0.001					
7/18/2017	<0.001						
10/18/2017	<0.001						
2/19/2018	<0.001						
3/27/2018		<0.001					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.001	<0.001	<0.001		
3/29/2018						<0.001	
8/6/2018	<0.001						
2/25/2019	<0.001						
2/26/2019		<0.001					
2/27/2019						<0.001	<0.001
3/5/2019			<0.001		<0.001		
3/6/2019				<0.001			
4/2/2019			<0.001				
4/3/2019				<0.001	<0.001		
6/13/2019	<0.001						
8/20/2019	<0.001						
9/25/2019			<0.001				
9/26/2019				<0.001	<0.001		
10/8/2019	<0.001						
2/10/2020						4.9E-05 (J)	<0.001
2/11/2020			<0.001	<0.001	<0.001		
2/12/2020		<0.001					
3/17/2020	<0.001						
3/18/2020		<0.001					<0.001
3/19/2020						0.00012 (J)	
3/24/2020			6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)		
8/27/2020	<0.001						
9/23/2020	<0.001		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	<0.001	0.00021 (J)
9/25/2020		<0.001					
2/9/2021				5E-05 (J)	9.4E-05 (J)		
2/10/2021		4.8E-05 (J)					
2/12/2021						4.4E-05 (J)	0.00038 (J)
3/2/2021		<0.001					
3/3/2021	<0.001		<0.001	<0.001	7.6E-05 (J)	5.6E-05 (J)	<0.001
8/18/2021	<0.001						
8/19/2021		<0.001				<0.001	<0.001
8/26/2021					<0.001		
8/27/2021			<0.001	<0.001			
2/8/2022	<0.001						
2/9/2022			<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2022		<0.001					
8/30/2022	<0.001		<0.001	<0.001	<0.001	<0.001	
8/31/2022		<0.001					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.001
6/2/2016				<0.001		0.00056 (J)	
6/7/2016	<0.001	<0.001					
7/25/2016				<0.001			<0.001
7/26/2016						0.0001 (J)	
7/27/2016	<0.001						
7/28/2016		<0.001					
9/14/2016			<0.001				<0.001
9/15/2016						0.0002 (J)	
9/19/2016	<0.001	<0.001		<0.001			
11/1/2016				<0.001		<0.001	<0.001
11/2/2016	0.0013 (J)						
11/3/2016		<0.001					
11/4/2016			<0.001				
12/15/2016			<0.001				
1/11/2017						<0.001	<0.001
1/13/2017	<0.001	<0.001					
1/16/2017			<0.001	<0.001			
2/21/2017				<0.001			
3/1/2017							<0.001
3/2/2017						0.0002 (J)	
3/3/2017			<0.001				
3/6/2017	<0.001	<0.001					
4/26/2017	<0.001	<0.001		<0.001		<0.001	<0.001
4/28/2017			<0.001				
5/26/2017			<0.001				
6/28/2017			<0.001			<0.001	<0.001
6/29/2017	<0.001	<0.001					
6/30/2017				<0.001			
10/11/2017					0.0001 (J)		
11/20/2017					<0.001		
1/11/2018					0.0002 (J)		
2/20/2018					<0.001		
3/27/2018				<0.001			
3/28/2018			<0.001			<0.001	<0.001
3/29/2018	<0.001	<0.001					
4/3/2018					<0.001		
6/28/2018					<0.001		
8/7/2018					<0.001		
9/24/2018					<0.001		
2/26/2019				<0.001			
2/27/2019			<0.001			<0.001	<0.001
3/5/2019	<0.001	<0.001					
4/2/2019		<0.001					
4/3/2019	<0.001						
8/21/2019					<0.001		
9/24/2019		<0.001					
9/25/2019	<0.001						
10/9/2019					<0.001		
2/11/2020			<0.001				<0.001
2/12/2020	<0.001	<0.001		<0.001	<0.001	<0.001	
3/19/2020			<0.001	<0.001		0.00017 (J)	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/24/2020	0.00011 (J)	<0.001					
3/25/2020					5.1E-05 (J)		
9/23/2020			0.0011 (J)			<0.001	0.00015 (J)
9/24/2020	9.2E-05 (J)	4.6E-05 (J)		<0.001	<0.001		
2/9/2021	6.3E-05 (J)	<0.001					
2/10/2021			0.00015 (J)		<0.001	<0.001	<0.001
2/11/2021				4.6E-05 (J)			
3/1/2021				<0.001			
3/3/2021	4.5E-05 (J)		<0.001			<0.001	<0.001
3/4/2021		<0.001			<0.001		
8/19/2021				<0.001		<0.001	
8/26/2021					<0.001		
8/27/2021	<0.001		<0.001				<0.001
9/1/2021		<0.001					
2/8/2022					<0.001		
2/9/2022	<0.001	<0.001	<0.001			<0.001	<0.001
2/11/2022				<0.001			
8/30/2022		<0.001	<0.001				
8/31/2022	<0.001			<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.001	<0.001	<0.001
7/26/2016			<0.001	<0.001	<0.001
8/30/2016		<0.001			
9/14/2016			<0.001	<0.001	<0.001
11/2/2016			<0.001	<0.001	
11/4/2016					<0.001
11/14/2016		<0.001			
1/12/2017				<0.001	<0.001
1/13/2017			<0.001		
2/24/2017		<0.001			
3/6/2017			<0.001		
3/7/2017				0.0001 (J)	7E-05 (J)
5/1/2017			<0.001	<0.001	
5/2/2017					<0.001
5/8/2017		<0.001			
6/27/2017				<0.001	<0.001
6/29/2017			<0.001		
7/11/2017		<0.001			
10/10/2017		<0.001			
10/12/2017	9E-05 (J)				
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				
3/29/2018			<0.001	<0.001	<0.001
4/2/2018		<0.001			
4/3/2018	<0.001				
6/28/2018	<0.001				
8/7/2018	<0.001				
9/19/2018		<0.001			
9/24/2018	<0.001				
3/4/2019			<0.001	<0.001	<0.001
4/3/2019			<0.001	<0.001	<0.001
8/20/2019		<0.001			
8/21/2019	<0.001				
9/24/2019				<0.001	9E-05 (J)
9/25/2019			<0.001		
10/9/2019	<0.001				
2/12/2020	<0.001		<0.001	<0.001	<0.001
3/24/2020	<0.001			5.4E-05 (J)	6.8E-05 (J)
3/25/2020			<0.001		
8/27/2020		<0.001			
9/22/2020		<0.001	<0.001	4.5E-05 (J)	4.2E-05 (J)
9/24/2020	3.8E-05 (J)				
2/8/2021				0.00013 (J)	3.7E-05 (J)
2/9/2021			<0.001		
2/10/2021	<0.001				
3/1/2021		<0.001			
3/2/2021				5.1E-05 (J)	9.2E-05 (J)
3/3/2021			<0.001		
3/4/2021	<0.001				
8/19/2021		<0.001			
8/26/2021			<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/3/2021	<0.001				
2/8/2022	<0.001	<0.001			
2/10/2022				<0.001	<0.001
2/11/2022			<0.001		
8/30/2022				<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.03	0.0024 (J)	<0.03	<0.03			
9/1/2016					<0.03	<0.03	<0.03
11/28/2016	<0.03		<0.03				
11/29/2016		<0.03					<0.03
11/30/2016				<0.03	<0.03		
12/1/2016						<0.03	
2/22/2017	<0.03		0.0036 (J)				
2/23/2017		<0.03		<0.03			0.0028 (J)
2/24/2017					<0.03	<0.03	
5/8/2017	0.0014 (J)						
5/9/2017		0.002 (J)		<0.03			
5/10/2017			0.0035 (J)		<0.03	<0.03	0.0054 (J)
7/17/2017	<0.03					<0.03	
7/18/2017		<0.03	0.0035 (J)	<0.03	<0.03		0.002 (J)
10/16/2017	0.0016 (J)					<0.03	
10/17/2017		0.0016 (J)	0.0035 (J)		<0.03		
10/18/2017				<0.03			0.0026 (J)
2/19/2018	<0.03						<0.03
2/20/2018			<0.03		<0.03		
2/21/2018		0.0014 (J)		<0.03		<0.03	
8/6/2018	<0.03						<0.03
8/7/2018		0.001 (J)		<0.03		<0.03	
8/8/2018			0.0031 (J)		<0.03		
8/19/2019	0.0019 (J)				0.00094 (J)		
8/20/2019		0.0012 (J)	0.0043 (J)				0.002 (J)
8/21/2019				<0.03		0.0015 (J)	
10/8/2019	0.0015 (J)						0.0021 (J)
10/9/2019		0.0013 (J)	0.0047 (J)			0.0014 (J)	
10/10/2019				<0.03	0.0013 (J)		
3/17/2020	0.0017 (J)	0.00094 (J)		0.0012 (J)			0.0018 (J)
3/18/2020			0.0053 (J)		<0.03	0.0017 (J)	
8/26/2020	0.0032 (J)						
8/27/2020		0.0017 (J)				0.0013 (J)	0.0083 (J)
8/28/2020			0.0047 (J)	<0.03	0.0011 (J)		
9/22/2020	0.0029 (J)	0.0015 (J)	0.0042 (J)	<0.03	0.0013 (J)		
9/23/2020						0.0012 (J)	0.0023 (J)
3/1/2021		0.0015 (J)	0.0039 (J)		<0.03		
3/2/2021	0.0033 (J)			0.00088 (J)		0.0016 (J)	
3/3/2021							0.0018 (J)
8/18/2021		0.0019 (J)	0.0049 (J)	0.001 (J)	0.00085 (J)	0.0016 (J)	0.0016 (J)
8/20/2021	0.0028 (J)						
2/8/2022	0.0031 (J)	0.0018 (J)		0.00094 (J)	<0.03		0.0016 (J)
2/9/2022			0.0042 (J)			0.0018 (J)	
8/30/2022	0.0025 (J)	0.0019 (J)		<0.03	<0.03	0.0014 (J)	0.0013 (J)
8/31/2022			0.0042 (J)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.015	<0.03	
6/2/2016	<0.03						
6/6/2016			0.0088	0.015			
6/7/2016		<0.03					<0.03
7/25/2016						0.002 (J)	
7/26/2016	<0.03				0.0135 (J)		
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)			<0.03
9/13/2016					0.0112 (J)	<0.03	
9/15/2016	<0.03						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)				<0.03
11/1/2016					0.0163 (J)		
11/2/2016	<0.03						<0.03
11/3/2016		<0.03	<0.03	0.0021 (J)			
11/4/2016						<0.03	
1/10/2017	<0.03						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)	0.0166 (J)		
1/13/2017							<0.03
1/16/2017						0.0023 (J)	
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03			0.0159 (J)	0.0025 (J)	
3/6/2017							<0.03
3/8/2017	<0.03						
4/26/2017	<0.03		0.0041 (J)	0.0019 (J)			<0.03
4/27/2017					0.0137 (J)	0.0027 (J)	
5/2/2017		<0.03					
6/27/2017					0.0094 (J)	0.0024 (J)	
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03					<0.03
6/30/2017	<0.03						
3/27/2018	<0.03					0.0023 (J)	
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					0.0078 (J)		<0.03
6/5/2018					0.0079 (J)		
6/6/2018						0.0024 (J)	<0.03
6/7/2018			0.0032 (J)				
6/8/2018	<0.03						
6/11/2018		<0.03		0.0014 (J)			
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)			<0.03
10/1/2018	<0.03				0.0053 (J)	0.0023 (J)	
2/26/2019	<0.03						
2/27/2019					0.0093 (J)	0.0023 (J)	
3/5/2019		<0.03		0.0031 (J)			<0.03
3/6/2019			0.0033 (J)				
3/28/2019					0.013 (J)	0.0022 (J)	
3/29/2019	<0.03						
4/2/2019		<0.03					
4/3/2019			0.0035 (J)	0.0028 (J)			<0.03
9/24/2019					0.0046 (J)	0.0023 (J)	
9/25/2019	<0.03	<0.03					<0.03
9/26/2019			0.0032 (J)	0.0029 (J)			
2/10/2020					0.011 (J)	0.0023 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			
2/12/2020	<0.03						<0.03
3/18/2020	<0.03					0.0024 (J)	
3/19/2020					0.013 (J)		
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)			<0.03
9/23/2020		<0.03	0.003 (J)	0.0022 (J)	0.014 (J)	0.0024 (J)	
9/24/2020							<0.03
9/25/2020	<0.03						
2/9/2021			0.0031 (J)	0.0019 (J)			<0.03
2/10/2021	<0.03						
2/12/2021					0.01 (J)	0.0025 (J)	
3/2/2021	<0.03						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	0.012 (J)	0.0025 (J)	<0.03
8/19/2021	<0.03				0.013 (J)	0.0023 (J)	
8/26/2021				0.0019 (J)			
8/27/2021		<0.03	0.0032 (J)				<0.03
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.013 (J)	0.0027 (J)	0.00082 (J)
2/10/2022	<0.03						
8/30/2022		<0.03	0.0036 (J)	0.0014 (J)	0.013 (J)		
8/31/2022	<0.03					<0.03	<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-211 (bg)	YGWA-21 (bg)	YGWA-301 (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.01	
6/2/2016			<0.03		0.018		
6/7/2016	0.0055						
7/25/2016			<0.03			0.0132 (J)	
7/26/2016					0.0221 (J)		
7/28/2016	0.0045 (J)						
9/14/2016		0.004 (J)				0.012 (J)	
9/15/2016					0.0197 (J)		
9/19/2016	0.0054 (J)		<0.03				
11/1/2016			<0.03		0.0194 (J)	0.0115 (J)	
11/3/2016	<0.03						
11/4/2016		<0.03					
12/15/2016		0.0026 (J)					
1/11/2017					0.0177 (J)	0.0085 (J)	
1/13/2017	0.0062 (J)						
1/16/2017		0.0023 (J)	<0.03				
2/21/2017			<0.03				
3/1/2017						0.0114 (J)	
3/2/2017					0.0185 (J)		
3/3/2017		0.0013 (J)					
3/6/2017	0.0059 (J)						
4/26/2017	0.0054 (J)		<0.03		0.0183 (J)	0.0092 (J)	
4/28/2017		0.0031 (J)					
5/26/2017		0.0038 (J)					
6/28/2017		0.0026 (J)			0.0173 (J)	0.0085 (J)	
6/29/2017	0.0047 (J)						
6/30/2017			<0.03				
10/11/2017				0.0018 (J)			
10/12/2017							<0.03
11/20/2017				0.0018 (J)			<0.03
1/10/2018							<0.03
1/11/2018				0.0019 (J)			
2/19/2018							<0.03
2/20/2018				<0.03			
3/27/2018			0.0011 (J)				
3/28/2018		0.0025 (J)			0.02 (J)	0.013 (J)	
3/29/2018	0.0062 (J)						
4/3/2018				0.0022 (J)			<0.03
6/5/2018	0.0061 (J)						
6/7/2018		0.0017 (J)			0.02 (J)		
6/8/2018						0.012 (J)	
6/11/2018			0.0012 (J)				
6/28/2018				0.0026 (J)			<0.03
8/7/2018				0.0024 (J)			<0.03
9/24/2018				0.0022 (J)			<0.03
9/25/2018	0.0062 (J)						
10/1/2018		<0.03			0.02 (J)	0.011 (J)	
10/2/2018			<0.03				
2/26/2019			0.0011 (J)				
2/27/2019		0.0011 (J)			0.021 (J)	0.014 (J)	
3/5/2019	0.0053 (J)						
3/29/2019		0.0016 (J)					

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
4/1/2019			0.001 (J)		0.021 (J)	0.013 (J)	
4/2/2019	0.0051 (J)						
8/21/2019				0.0035 (J)			<-0.03
9/24/2019	0.0068 (J)	0.0011 (J)					
9/25/2019			0.0011 (J)		0.02 (J)	0.01 (J)	
10/9/2019				0.0036 (J)			<-0.03
2/11/2020		0.0012 (J)				0.013 (J)	
2/12/2020	0.0065 (J)		0.0013 (J)	0.0041 (J)	0.019 (J)		<-0.03
3/19/2020		0.0022 (J)	0.0012 (J)		0.023 (J)	0.014 (J)	
3/24/2020	0.0064 (J)						<-0.03
3/25/2020				0.0049 (J)			
9/23/2020		0.0016 (J)			0.023 (J)	0.013 (J)	
9/24/2020	0.0069 (J)		0.0011 (J)	0.0054 (J)			<-0.03
2/9/2021	0.006 (J)						
2/10/2021		0.0039 (J)		0.0071 (J)	0.023 (J)	0.015 (J)	<-0.03
2/11/2021			0.0012 (J)				
3/1/2021			0.0011 (J)				
3/3/2021		0.0016 (J)			0.024 (J)	0.017 (J)	
3/4/2021	0.0062 (J)			0.0084 (J)			<-0.03
8/19/2021			0.0012 (J)		0.023 (J)		
8/26/2021				0.0082 (J)			
8/27/2021		0.0058 (J)				0.026 (J)	
9/1/2021	0.0057 (J)						
9/3/2021							<-0.03
2/8/2022				0.008 (J)			0.00076 (J)
2/9/2022	0.0061 (J)	0.006 (J)			0.026 (J)	0.021 (J)	
2/11/2022			0.0014 (J)				
8/30/2022	0.0079 (J)	0.0044 (J)					
8/31/2022			0.0012 (J)	0.0065 (J)	0.021 (J)	0.022 (J)	<-0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		0.013	0.0049 (J)	<0.03
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)
8/30/2016	0.0061 (J)			
9/14/2016		0.0137 (J)	0.0058 (J)	0.0029 (J)
11/2/2016		0.0136 (J)	0.0053 (J)	
11/4/2016				<0.03
11/14/2016	0.0064 (J)			
1/12/2017			0.0054 (J)	0.0032 (J)
1/13/2017		0.0121 (J)		
2/24/2017	0.0049 (J)			
3/6/2017		0.0143 (J)		
3/7/2017			0.0056 (J)	0.0035 (J)
5/1/2017		0.0132 (J)	0.0031 (J)	
5/2/2017				0.0031 (J)
5/8/2017	0.0053 (J)			
6/27/2017			0.0018 (J)	0.0029 (J)
6/29/2017		0.0145 (J)		
7/11/2017	0.0051 (J)			
10/10/2017	0.0043 (J)			
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)
4/2/2018	0.0045 (J)			
6/6/2018			0.0068 (J)	
6/7/2018		0.013 (J)		0.0032 (J)
9/19/2018	0.0043 (J)			
9/26/2018		0.014 (J)	0.0065 (J)	0.0032 (J)
3/4/2019		0.015 (J)	0.0065 (J)	0.0032 (J)
4/3/2019		0.014 (J)	0.007 (J)	0.0035 (J)
8/20/2019	0.0036 (J)			
9/24/2019			0.0065 (J)	0.0031 (J)
9/25/2019		0.014 (J)		
10/8/2019	0.0036 (J)			
2/12/2020		0.011 (J)	0.0066 (J)	0.0032 (J)
3/17/2020	0.0046 (J)			
3/24/2020			0.0064 (J)	0.0033 (J)
3/25/2020		0.014 (J)		
8/27/2020	0.0039 (J)			
9/22/2020	0.0036 (J)	0.013 (J)	0.0066 (J)	0.0034 (J)
2/8/2021			0.0063 (J)	0.0032 (J)
2/9/2021		0.011 (J)		
3/1/2021	0.0037 (J)			
3/2/2021			0.0018 (J)	0.0031 (J)
3/3/2021		0.012 (J)		
8/19/2021	0.0038 (J)			
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)
2/8/2022	0.0039 (J)			
2/10/2022			0.0076 (J)	0.0036 (J)
2/11/2022		0.012 (J)		
8/30/2022			0.0068 (J)	0.0035 (J)
8/31/2022	0.0037 (J)	0.013 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.0002						
9/11/2007	<0.0002						
3/20/2008	<0.0002						
8/27/2008	<0.0002						
3/3/2009	<0.0002						
9/9/2009							<0.0002
11/18/2009	<0.0002						<0.0002
1/5/2010							<0.0002
3/3/2010	<0.0002						<0.0002
9/7/2010							<0.0002
9/8/2010	<0.0002						
11/22/2010			<0.0002		<0.0002		
1/4/2011			<0.0002		<0.0002		
2/17/2011			<0.0002		<0.0002		
3/10/2011	<0.0002						<0.0002
3/11/2011			<0.0002		<0.0002		
3/28/2011			<0.0002		<0.0002		
9/7/2011			<0.0002	<0.0002	<0.0002	<0.0002	
9/8/2011	<0.0002	<0.0002					<0.0002
3/4/2012					<0.0002		
3/5/2012	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002
3/6/2012			<0.0002				
9/5/2012		<0.0002		<0.0002		<0.0002	<0.0002
9/10/2012	<0.0002				<0.0002		
9/11/2012			<0.0002				
2/5/2013		<0.0002				<0.0002	<0.0002
2/6/2013	<0.0002		<0.0002	<0.0002	0.00014		
8/12/2013	<0.0002						
8/13/2013		<0.0002	<0.0002	<0.0002			<0.0002
8/14/2013					<0.0002	<0.0002	
2/4/2014		<0.0002	<0.0002		<0.0002		<0.0002
2/5/2014	<0.0002			<0.0002		<0.0002	
8/4/2014				<0.0002	<0.0002	<0.0002	
8/5/2014	<0.0002	<0.0002	<0.0002				<0.0002
2/2/2015		<0.0002	<0.0002		<0.0002		
2/3/2015				<0.0002		<0.0002	<0.0002
2/4/2015	<0.0002						
8/3/2015	<0.0002			<0.0002 (D)	<0.0002 (D)	<0.0002 (D)	
8/4/2015		<0.0002 (D)	<0.0002				<0.0002
2/16/2016	1.36E-05 (J)	<0.0002		1.34E-05 (J)	<0.0002	<0.0002	1.13E-05 (J)
2/17/2016			<0.0002				
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/1/2016					<0.0002	<0.0002	<0.0002
11/28/2016	<0.0002		<0.0002				
11/29/2016		<0.0002					<0.0002
11/30/2016				<0.0002	<0.0002		
12/1/2016						<0.0002	
2/22/2017	<0.0002		<0.0002				
2/23/2017		<0.0002		<0.0002			<0.0002
2/24/2017					<0.0002	<0.0002	
5/8/2017	<0.0002						
5/9/2017		<0.0002		<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.0002		<0.0002	<0.0002	<0.0002
7/17/2017	<0.0002					<0.0002	
7/18/2017		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/16/2017	<0.0002					<0.0002	
10/17/2017		<0.0002	<0.0002		<0.0002		
10/18/2017				<0.0002			<0.0002
2/19/2018	<0.0002						<0.0002
2/20/2018			<0.0002		<0.0002		
2/21/2018		<0.0002		<0.0002		<0.0002	
8/6/2018	<0.0002						<0.0002
8/7/2018		<0.0002		<0.0002		<0.0002	
8/8/2018			<0.0002		<0.0002		
2/25/2019	7.4E-05 (J)						6.7E-05 (J)
2/26/2019		5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	
6/12/2019	<0.0002		<0.0002		<0.0002		
6/13/2019		<0.0002		<0.0002		<0.0002	<0.0002
8/19/2019	<0.0002				<0.0002		
8/20/2019		<0.0002	<0.0002				<0.0002
8/21/2019				<0.0002		<0.0002	
10/8/2019	<0.0002						<0.0002
10/9/2019		<0.0002	<0.0002			<0.0002	
10/10/2019				0.00043 (J)	<0.0002		
5/6/2020	<0.0002	<0.0002					<0.0002
5/7/2020			<0.0002	<0.0002	<0.0002	<0.0002	
8/26/2020	<0.0002						
8/27/2020		<0.0002				<0.0002	<0.0002
8/28/2020			<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/23/2020						<0.0002	<0.0002
3/1/2021		<0.0002	<0.0002		<0.0002		
3/2/2021	<0.0002			<0.0002		<0.0002	
3/3/2021							<0.0002
8/18/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2021	<0.0002						
2/8/2022	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
2/9/2022			<0.0002			<0.0002	
8/30/2022	<0.0002	<0.0002		<0.0002	0.00014 (J)	<0.0002	<0.0002
8/31/2022			<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/10/2022	<0.0002						
8/30/2022		<0.0002	<0.0002	<0.0002	<0.0002		
8/31/2022	<0.0002					<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.0002	
6/2/2016			<0.0002		<0.0002		
6/7/2016	9.6E-05 (J)						
7/25/2016			<0.0002			<0.0002	
7/26/2016					<0.0002		
7/28/2016	<0.0002						
9/14/2016		<0.0002				<0.0002	
9/15/2016					<0.0002		
9/19/2016	<0.0002		<0.0002				
11/1/2016			<0.0002		<0.0002	<0.0002	
11/3/2016	<0.0002						
11/4/2016		<0.0002					
12/15/2016		<0.0002					
1/11/2017					<0.0002	<0.0002	
1/13/2017	<0.0002						
1/16/2017		<0.0002	<0.0002				
2/21/2017			<0.0002				
3/1/2017						<0.0002	
3/2/2017					<0.0002		
3/3/2017		<0.0002					
3/6/2017	<0.0002						
4/26/2017	<0.0002		<0.0002		<0.0002	<0.0002	
4/28/2017		<0.0002					
5/26/2017		<0.0002					
6/28/2017		<0.0002			<0.0002	<0.0002	
6/29/2017	<0.0002						
6/30/2017			<0.0002				
10/11/2017				<0.0002			
10/12/2017							<0.0002
11/20/2017				7E-05 (J)			8E-05 (J)
1/10/2018							<0.0002
1/11/2018				<0.0002			
2/19/2018							<0.0002
2/20/2018				<0.0002			
3/27/2018			<0.0002				
3/28/2018		<0.0002			<0.0002	<0.0002	
3/29/2018	<0.0002						
4/3/2018				<0.0002			<0.0002
6/28/2018				<0.0002			3.6E-05 (J)
8/7/2018				<0.0002			<0.0002
9/24/2018				<0.0002			<0.0002
9/25/2018	<0.0002						
2/26/2019			6.8E-05 (J)				
2/27/2019		<0.0002			6.2E-05 (J)	6.1E-05 (J)	
3/5/2019	<0.0002						
3/29/2019		<0.0002					
4/1/2019			8.2E-05 (J)		9.6E-05 (J)	8.4E-05 (J)	
8/21/2019				<0.0002			<0.0002
9/24/2019		<0.0002					
9/25/2019			<0.0002		<0.0002	<0.0002	
2/11/2020		<0.0002				<0.0002	
2/12/2020	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-211 (bg)	YGWA-21 (bg)	YGWA-301 (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
2/9/2021	<0.0002						
2/10/2021		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/11/2021			<0.0002				
3/4/2021	<0.0002			<0.0002			<0.0002
8/26/2021				<0.0002			
9/1/2021	<0.0002						
9/3/2021							0.00012 (J)
2/8/2022				<0.0002			0.00013 (J)
2/9/2022	<0.0002	<0.0002			<0.0002	<0.0002	
2/11/2022			<0.0002				
8/30/2022	<0.0002	<0.0002					
8/31/2022			<0.0002	<0.0002	<0.0002	<0.0002	0.00064

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.0002	<0.0002	<0.0002
7/26/2016		<0.0002	<0.0002	<0.0002
8/30/2016	<0.0002			
9/14/2016		<0.0002	<0.0002	<0.0002
11/2/2016		<0.0002	<0.0002	
11/4/2016				<0.0002
11/14/2016	<0.0002			
1/12/2017			<0.0002	<0.0002
1/13/2017		<0.0002		
2/24/2017	<0.0002			
3/6/2017		<0.0002		
3/7/2017			<0.0002	<0.0002
5/1/2017		<0.0002	<0.0002	
5/2/2017				<0.0002
5/8/2017	<0.0002			
6/27/2017			<0.0002	<0.0002
6/29/2017		<0.0002		
7/11/2017	<0.0002			
10/10/2017	<0.0002			
3/29/2018		<0.0002	<0.0002	<0.0002
4/2/2018	<0.0002			
9/19/2018	5.3E-05 (J)			
9/26/2018		<0.0002	<0.0002	<0.0002
3/4/2019		<0.0002	<0.0002	<0.0002
8/20/2019	<0.0002			
2/12/2020		<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002			
2/8/2021			<0.0002	<0.0002
2/9/2021		<0.0002		
3/2/2021			<0.0002	<0.0002
3/3/2021		<0.0002		
8/19/2021	<0.0002			
8/26/2021		<0.0002	<0.0002	<0.0002
2/8/2022	<0.0002			
2/10/2022			<0.0002	<0.0002
2/11/2022		<0.0002		
8/30/2022			<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.01	<0.01	<0.01	<0.01			
9/1/2016					<0.01	<0.01	<0.01
11/28/2016	<0.01		<0.01				
11/29/2016		<0.01					<0.01
11/30/2016				<0.01	<0.01		
12/1/2016						<0.01	
2/22/2017	<0.01		<0.01				
2/23/2017		<0.01		<0.01			<0.01
2/24/2017					<0.01	<0.01	
5/8/2017	<0.01						
5/9/2017		<0.01		<0.01			
5/10/2017			<0.01		<0.01	<0.01	<0.01
7/17/2017	<0.01					<0.01	
7/18/2017		<0.01	<0.01	<0.01	<0.01		<0.01
10/16/2017	<0.01					<0.01	
10/17/2017		<0.01	<0.01		<0.01		
10/18/2017				<0.01			<0.01
2/19/2018	<0.01						<0.01
2/20/2018			<0.01		<0.01		
2/21/2018		<0.01		<0.01		<0.01	
8/6/2018	<0.01						<0.01
8/7/2018		<0.01		<0.01		<0.01	
8/8/2018			<0.01		<0.01		
8/19/2019	<0.01				<0.01		
8/20/2019		<0.01	<0.01				<0.01
8/21/2019				<0.01		<0.01	
8/26/2020	<0.01						
8/27/2020		<0.01				<0.01	<0.01
8/28/2020			<0.01	<0.01	<0.01		
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/20/2021	<0.01						
2/8/2022	<0.01	<0.01		<0.01	<0.01		<0.01
2/9/2022			<0.01			<0.01	
8/30/2022	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
8/31/2022			<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.014 (J)	0.012 (J)	
6/2/2016	<0.01						
6/6/2016			<0.01	<0.01			
6/7/2016		<0.01					<0.01
7/25/2016						0.0098 (J)	
7/26/2016	<0.01				0.0132		
7/27/2016		<0.01	<0.01	<0.01			<0.01
9/13/2016					0.0127	0.01 (J)	
9/15/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01				<0.01
11/1/2016					0.0092 (J)		
11/2/2016	<0.01						<0.01
11/3/2016		<0.01	<0.01	<0.01			
11/4/2016						0.01	
1/10/2017	<0.01						
1/11/2017		<0.01	<0.01	<0.01	0.0093 (J)		
1/13/2017							<0.01
1/16/2017						0.0086 (J)	
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01			0.0099 (J)	0.01	
3/6/2017							<0.01
3/8/2017	<0.01						
4/26/2017	<0.01		<0.01	<0.01			<0.01
4/27/2017					0.0103	0.0101	
5/2/2017		<0.01					
6/27/2017					0.0097 (J)	0.0093 (J)	
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01					<0.01
6/30/2017	<0.01						
3/27/2018	<0.01					0.0074 (J)	
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					0.0076 (J)		<0.01
6/5/2018					0.0092 (J)		
6/6/2018						0.0073 (J)	
6/8/2018	<0.01						
10/1/2018	<0.01				0.0085 (J)	0.0076 (J)	
2/26/2019	<0.01						
2/27/2019					0.0087 (J)	0.0078 (J)	
3/5/2019		<0.01		<0.01			<0.01
3/6/2019			<0.01				
3/28/2019					0.0092 (J)	0.0082 (J)	
3/29/2019	<0.01						
9/24/2019					0.0072 (J)	0.0074 (J)	
9/25/2019	<0.01						
2/10/2020					0.0087 (J)	0.0062 (J)	
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020	<0.01						<0.01
3/18/2020	<0.01					0.0056 (J)	
3/19/2020					0.0088 (J)		
3/24/2020		<0.01	<0.01	<0.01			<0.01
9/23/2020		<0.01	<0.01	<0.01	0.008 (J)	0.0059 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/24/2020							<0.01
9/25/2020	<0.01						
2/9/2021			<0.01	<0.01			<0.01
2/10/2021	<0.01						
2/12/2021					0.008 (J)	0.0056 (J)	
3/2/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	0.0088 (J)	0.0049 (J)	<0.01
8/19/2021	<0.01				0.0083 (J)	0.005 (J)	
8/26/2021				<0.01			
8/27/2021		<0.01	<0.01				<0.01
2/9/2022		<0.01	<0.01	<0.01	0.0093 (J)	0.0055 (J)	<0.01
2/10/2022	<0.01						
8/30/2022		<0.01	<0.01	<0.01	0.0094 (J)		
8/31/2022	<0.01					0.0055 (J)	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.0055 (J)	
6/2/2016			<0.01		0.0093 (J)		
6/7/2016	<0.01						
7/25/2016			<0.01			0.0037 (J)	
7/26/2016					0.0113		
7/28/2016	<0.01						
9/14/2016		0.0039 (J)				0.0034 (J)	
9/15/2016					0.0112		
9/19/2016	<0.01		<0.01				
11/1/2016			<0.01		0.0099 (J)	0.0025 (J)	
11/3/2016	<0.01						
11/4/2016		0.0077 (J)					
12/15/2016		0.0066 (J)					
1/11/2017					0.0093 (J)	0.0033 (J)	
1/13/2017	<0.01						
1/16/2017		0.0056 (J)	<0.01				
2/21/2017			<0.01				
3/1/2017						0.0044 (J)	
3/2/2017					0.0103		
3/3/2017		0.0049 (J)					
3/6/2017	0.0007 (J)						
4/26/2017	0.0008 (J)		<0.01		0.01	0.0075 (J)	
4/28/2017		0.004 (J)					
5/26/2017		0.0029 (J)					
6/28/2017		0.0036 (J)			0.0102	0.008 (J)	
6/29/2017	<0.01						
6/30/2017			<0.01				
10/11/2017				0.0094 (J)			
10/12/2017							<0.01
11/20/2017				0.0081 (J)			<0.01
1/10/2018							<0.01
1/11/2018				0.0074 (J)			
2/19/2018							<0.01
2/20/2018				<0.01			
3/27/2018			<0.01				
3/28/2018		0.0038 (J)			0.011	0.0025 (J)	
3/29/2018	<0.01						
4/3/2018				0.006 (J)			<0.01
6/7/2018		0.004 (J)			0.011		
6/8/2018						0.0041 (J)	
6/11/2018			<0.01				
6/28/2018				0.005 (J)			<0.01
8/7/2018				0.0045 (J)			<0.01
9/24/2018				0.0035 (J)			<0.01
10/1/2018		0.0042 (J)			0.012	0.0037 (J)	
10/2/2018			<0.01				
2/26/2019			<0.01				
2/27/2019		0.0041 (J)			0.011	0.0027 (J)	
3/5/2019	<0.01						
3/29/2019		0.0041 (J)					
4/1/2019			<0.01		0.012	0.0021 (J)	
8/21/2019				0.0021 (J)			<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019		0.0054 (J)					
9/25/2019			<0.01		0.012	0.0087 (J)	
10/9/2019				0.0018 (J)			<0.01
2/11/2020		0.0057 (J)				0.003 (J)	
2/12/2020	<0.01		<0.01	0.0025 (J)	0.013		<0.01
3/19/2020		0.0046 (J)	<0.01		0.013	0.0043 (J)	
3/24/2020	<0.01						<0.01
3/25/2020				0.002 (J)			
9/23/2020		0.0071 (J)			0.012	0.01	
9/24/2020	<0.01		<0.01	0.0016 (J)			<0.01
2/9/2021	<0.01						
2/10/2021		0.0041 (J)		0.0013 (J)	0.014	0.0038 (J)	<0.01
2/11/2021			<0.01				
3/1/2021			<0.01				
3/3/2021		0.0074 (J)			0.013	0.0036 (J)	
3/4/2021	<0.01			0.0014 (J)			<0.01
8/19/2021			<0.01		0.013		
8/26/2021				0.0027 (J)			
8/27/2021		0.0048 (J)				0.0099 (J)	
9/1/2021	<0.01						
9/3/2021							<0.01
2/8/2022				0.0035 (J)			<0.01
2/9/2022	<0.01	0.0057 (J)			0.013	0.0087 (J)	
2/11/2022			<0.01				
8/30/2022	<0.01	0.0068 (J)					
8/31/2022			<0.01	0.0036 (J)	0.011	0.0068 (J)	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01
7/26/2016		<0.01	0.0042 (J)	<0.01
8/30/2016	<0.01			
9/14/2016		<0.01	0.0041 (J)	<0.01
11/2/2016		<0.01	0.0039 (J)	
11/4/2016				<0.01
11/14/2016	<0.01			
1/12/2017			0.0041 (J)	<0.01
1/13/2017		<0.01		
2/24/2017	<0.01			
3/6/2017		<0.01		
3/7/2017			0.0047 (J)	<0.01
5/1/2017		<0.01	0.0045 (J)	
5/2/2017				<0.01
5/8/2017	<0.01			
6/27/2017			0.004 (J)	<0.01
6/29/2017		<0.01		
7/11/2017	<0.01			
10/10/2017	<0.01			
3/29/2018		<0.01	<0.01	<0.01
4/2/2018	<0.01			
9/19/2018	<0.01			
3/4/2019		<0.01	<0.01	<0.01
8/20/2019	<0.01			
10/8/2019	<0.01			
2/12/2020		<0.01	0.0011 (J)	<0.01
3/17/2020	<0.01			
3/24/2020			0.0011 (J)	<0.01
3/25/2020		<0.01		
8/27/2020	<0.01			
9/22/2020	<0.01	<0.01	0.00099 (J)	<0.01
2/8/2021			0.0011 (J)	<0.01
2/9/2021		<0.01		
3/1/2021	<0.01			
3/2/2021			<0.01	<0.01
3/3/2021		<0.01		
8/19/2021	<0.01			
8/26/2021		<0.01	0.001 (J)	<0.01
2/8/2022	<0.01			
2/10/2022			0.00096 (J)	<0.01
2/11/2022		<0.01		
8/30/2022			0.00089 (J)	<0.01
8/31/2022	<0.01	<0.01		

Time Series

Constituent: Nickel (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	<0.005						
9/12/2001	<0.005						
9/3/2002	<0.005						
7/29/2003	0.0061						
12/5/2003	<0.005						
9/22/2004	<0.005						
5/1/2007		0.0061					
9/11/2007		0.021					
3/20/2008		<0.005					
8/27/2008		<0.005					
3/3/2009		0.005					
11/18/2009		0.0052					
3/3/2010		0.011					
9/8/2010		0.012					
11/22/2010				0.0096		<0.005	
1/4/2011				0.0084		<0.005	
2/17/2011				0.0088		<0.005	
3/10/2011		0.0032					
3/11/2011				0.0058		<0.005	
3/28/2011				0.0058		<0.005	
9/7/2011				0.005	0.0054	<0.005	<0.005
9/8/2011		0.0046	0.009				
3/4/2012						<0.005	
3/5/2012		0.0053	0.0035		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			0.0027		<0.005		<0.005
9/10/2012		0.0074				<0.005	
9/11/2012				<0.005			
2/5/2013			0.0026				<0.005
2/6/2013		0.0077		<0.005	<0.005	<0.005	
8/12/2013		0.016					
8/13/2013			<0.005	0.003	0.0032		
8/14/2013						<0.005	0.0032
2/4/2014			<0.005	0.0026		0.0033	
2/5/2014		0.019			0.0039		0.0032
8/4/2014					0.0024 (J)	0.0015 (J)	0.0059
8/5/2014		0.0057	0.0013 (J)	0.0015 (J)			
2/2/2015			0.0023 (J)	<0.005		<0.005	
2/3/2015					<0.005		0.0013 (J)
2/4/2015		0.0055					
8/3/2015		0.0055			<0.005 (D)	<0.005 (D)	0.0039 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		0.0039	<0.005		<0.005	<0.005	0.0036
2/17/2016				<0.005			
2/22/2017		0.0051 (J)		0.0009 (J)			
2/23/2017			0.0026 (J)		<0.005		
2/24/2017						0.0021 (J)	0.0019 (J)
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			0.001 (J)		<0.005		0.0013 (J)
8/6/2018		0.003 (J)					

Time Series

Constituent: Nickel (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
8/7/2018			<0.005		<0.005		0.0019 (J)
8/8/2018				<0.005		0.0012 (J)	
2/25/2019		0.0026 (J)					
2/26/2019			<0.005	0.0068 (J)	<0.005	<0.005	0.0023 (J)
6/12/2019		0.0038 (J)		0.00043 (J)		0.00082 (J)	
6/13/2019			0.00072 (J)		<0.005		0.0019 (J)
10/8/2019		0.0051 (J)					
10/9/2019			0.0015 (J)	0.00058 (J)			0.0019 (J)
10/10/2019					<0.005	0.00084 (J)	
3/17/2020		0.0066	0.00087 (J)		0.00056 (J)		
3/18/2020				0.00063 (J)		0.0026 (J)	0.002 (J)
9/22/2020		0.027	0.0021 (J)	<0.005	<0.005	0.00077 (J)	
9/23/2020							0.0012 (J)
3/1/2021			0.0024 (J)	<0.005		0.0021 (J)	
3/2/2021		0.034			<0.005		0.0014 (J)
8/18/2021			0.0028 (J)	<0.005	<0.005	0.0026 (J)	0.0016 (J)
8/20/2021		0.014					
2/8/2022		0.017	0.0032 (J)		<0.005	0.0017 (J)	
2/9/2022				<0.005			0.0014 (J)
8/30/2022		0.015	0.0027 (J)		<0.005	0.0021 (J)	0.00097 (J)
8/31/2022				<0.005			

Time Series

Constituent: Nickel (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R
9/9/2009	<0.005
11/18/2009	<0.005
1/5/2010	<0.005
3/3/2010	<0.005
9/7/2010	<0.005
3/10/2011	<0.005
9/8/2011	<0.005
3/5/2012	<0.005
9/5/2012	<0.005
2/5/2013	<0.005
8/13/2013	<0.005
2/4/2014	<0.005
8/5/2014	<0.005
2/3/2015	<0.005
8/4/2015	<0.005
2/16/2016	<0.005
2/23/2017	0.0015 (J)
2/19/2018	<0.005
8/6/2018	0.0026 (J)
2/25/2019	0.0023 (J)
6/13/2019	0.0037 (J)
10/8/2019	0.0021 (J)
3/17/2020	0.0011 (J)
9/23/2020	0.0016 (J)
3/3/2021	0.0016 (J)
8/18/2021	0.0012 (J)
2/8/2022	0.001 (J)
8/30/2022	<0.005

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/27/2008	6.53						
3/3/2009	6.35						
11/18/2009	6.47						5.82
1/5/2010							5.8
3/3/2010	6.53						6.15
3/10/2011	5.83						6.05
3/11/2011			5.52		6.16		
9/7/2011			4.35	4.31	5.07	5.64	
9/8/2011	5.69	4.49					5.31
3/5/2012	6.27						6.23
3/6/2012			6.37				
9/5/2012							5.83
9/10/2012	6.23						
9/11/2012			5.69				
2/5/2013							6.79
2/6/2013	7.56		6.8				
8/12/2013	6.68						
8/13/2013			5.51				6.48
2/4/2014			5.74				6.14
2/5/2014	6.32						
8/3/2015	6.13 (D)						
2/16/2016	5.64						5.2
2/17/2016			5.59				
11/28/2016	6.23		5.47				
11/29/2016		5.37					5.92
11/30/2016				5.13	5.61		
12/1/2016						5.24	
2/22/2017	6.21		5.48				
2/23/2017		5.5		5.28			5.97
2/24/2017					5.47	5.37	
5/8/2017	6.12						
5/9/2017		5.41		5.12			
5/10/2017			5.6		5.68	5.2	5.82
7/17/2017	6.03					5.21	
7/18/2017		5.5	5.49	5.21	5.59		5.76
10/16/2017	6.12					5.16	
10/17/2017		5.42	5.45		5.52		
10/18/2017				5.17			5.76
2/19/2018	6.13						5.86
2/20/2018			5.52		5.51		
2/21/2018		5.39		5.15		5.18	
8/6/2018	6.01						5.84
8/7/2018		5.14		4.95		5.06	
8/8/2018			5.15		5.33		
2/25/2019	6.51						5.91
2/26/2019		5.52	5.4	5.22	5.42	5.08	
6/12/2019	6.3		5.38		5.54		
6/13/2019		5.55		5.08		5.01	5.84
8/19/2019	6.23				5.56		
8/20/2019		5.33	5.33				5.85
8/21/2019				5.32		4.88	
10/8/2019	6.28						5.91

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
10/9/2019		5.37	5.39			4.89	
10/10/2019				5.4	5.55		
1/21/2020						4.99	
3/17/2020	6.14	5.7		5.03			5.97
3/18/2020			5.38		5.58	4.88	
5/6/2020	6.24	6.8					5.99
5/7/2020			5.43	5.05	5.52	5.2	
8/26/2020	5.67						
8/27/2020		5.39				5.17	5.77
8/28/2020			5.45	5.2	5.38		
9/22/2020	5.78	5.25	5.34	5.11	5.43		
9/23/2020						5.04	5.81
3/1/2021		5.25	5.17		5.62		
3/2/2021	5.42 (D)			4.82		4.63	
3/3/2021							5.78
8/18/2021		5.08	4.96	4.73	5.46	4.76	5.82
8/20/2021	5.86						
2/8/2022	5.83	5.16		5.1	5.67		5.89
2/9/2022			5.2			4.82	
8/30/2022	5.39	5.07		4.85	5.52	4.86	5.82
8/31/2022			5.23				

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					7.46	6.33	
6/2/2016	5.46						
6/6/2016			6.17	5.71			
6/7/2016		5.62					5.77
7/25/2016						6.21	
7/26/2016	5.45				7.43		
7/27/2016		5.59	6.14	5.46			5.79
9/13/2016					7.44	6.16	
9/15/2016	5.45						
9/16/2016		5.58					
9/19/2016			6.04	5.59			5.73
11/1/2016					7.24		
11/2/2016	5.41						5.67
11/3/2016		5.59	5.97	5.39			
11/4/2016						6.29	
1/10/2017	5.37						
1/11/2017		5.59	6.05	5.48	7.3		
1/13/2017							5.79
1/16/2017						6.29	
3/1/2017			5.94	5.41			
3/2/2017		5.54			7.23	6.28	
3/6/2017							5.63
3/8/2017	5.41						
4/26/2017	5.02		5.99	5.4			5.66
4/27/2017					6.99	6.09	
5/2/2017		5.47					
6/27/2017					6.87	6.21	
6/28/2017			6	5.36			
6/29/2017		5.56					5.85
6/30/2017	5.39						
10/3/2017					6.81	5.98	
10/4/2017		5.57		5.32			5.83
10/5/2017	5.49		6.11				
3/27/2018	5.47					6.25	
3/28/2018		5.59	6.1	5.34			
3/29/2018					7.38		5.93
6/5/2018					7.16		
6/6/2018						6.17	5.86
6/7/2018			5.98				
6/8/2018	5.45						
6/11/2018		5.58		5.28			
9/25/2018		5.59	5.81	4.86			5.84
10/1/2018	5.39				6.8	5.9	
2/26/2019	5.46						
2/27/2019					6.84	5.8	
3/5/2019		5.48		5.26			6.07
3/6/2019			5.99				
3/28/2019					6.99	6.15	
3/29/2019	5.34						
4/2/2019		5.74					
4/3/2019			6.29	5.47			5.71
9/24/2019					7.07	6.23	

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2019	5.19	5.49					5.86
9/26/2019			6.04	5.2			
2/10/2020					7.2	6.1	
2/11/2020		5.58	6.07	5.3			
2/12/2020	5.48						6
3/18/2020	5.38					6.19	
3/19/2020					7.03		
3/24/2020		5.57	5.98	5.33			5.86
9/23/2020		5.58	6.01	5.29	7.15	6.01	
9/24/2020							5.8
9/25/2020	5.44						
2/9/2021			6.12	5.43			5.86
2/10/2021	5.35						
2/12/2021					7.14	6.21	
3/2/2021	5.49						
3/3/2021		5.52	5.89	5.31	7.2	5.38	5.89
8/19/2021	7.32				6.32	6.38	
8/26/2021				4.4			
8/27/2021		5.27	5.4				5.57
2/9/2022		5.53	5.98	5.28	7.12	6.24	5.91
2/10/2022	4.5						
8/30/2022		4.68	5.82	5.18	7.2		
8/31/2022	5.15					5.64	5.38

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						7.72	
6/2/2016			5.75		7.84		
6/7/2016	6.1						
7/25/2016			5.82			7.74	
7/26/2016					7.88		
7/28/2016	6.12						
9/13/2016		7.41					
9/14/2016						7.65	
9/15/2016					7.74		
9/19/2016	6.12		5.78 (D)				
11/1/2016			5.62		7.75	7.7	
11/3/2016	6.07						
11/4/2016		7.12					
12/15/2016		7.24					
1/11/2017					7.66	7.53	
1/13/2017	6.41						
1/16/2017		7.24	5.72				
2/21/2017			5.67				
3/1/2017						7.42	
3/2/2017					7.68		
3/3/2017		7.22					
3/6/2017	6.34						
4/26/2017	6.32		5.56		7.45	7.4	
4/28/2017		7.21					
5/26/2017		7.13					
6/28/2017		7.06			7.65	7.5	
6/29/2017	6.47						
6/30/2017			5.72				
10/3/2017	6.56	6.99					
10/4/2017			5.87		7.49	7.45	
10/11/2017				6.4			
10/12/2017							5.43
11/20/2017				6.33			5.1
1/10/2018							4.97
1/11/2018				6.29			
2/19/2018							5.6
2/20/2018				7.22			
3/27/2018			5.83				
3/28/2018		7.3			7.91	7.74	
3/29/2018	6.75						
4/3/2018				6.87			5.84
6/5/2018	6.09						
6/7/2018		7.29			7.69		
6/8/2018						7.64	
6/11/2018			5.69				
6/28/2018				6.18			5.24
8/7/2018				6.08			5.18
9/24/2018				5.81			5.14
9/25/2018	6.67						
10/1/2018		7.07			7.39	7.47	
10/2/2018			5.39				
2/26/2019			5.77				

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
2/27/2019		7.27			7.55	7.54	
3/5/2019	7.22						
3/26/2019							5.3
3/27/2019				5.84			
3/29/2019		7.06					
4/1/2019			5.62		7.87	7.74	
4/2/2019	6.94						
8/21/2019				5.96			5.26
9/24/2019	6.87	7.01					
9/25/2019			5.69		7.64	7.47	
10/9/2019				5.81			5.22
2/11/2020		7.38				7.09	
2/12/2020	7.13		5.8	5.97	7.83		5.3
3/19/2020		7.22	6		7.65	7.31	
3/24/2020	6.35						5.29
3/25/2020				5.78			
9/23/2020		7.22			7.57	7.37	
9/24/2020	6.7		5.67	5.7			5.43
2/9/2021	6.95						
2/10/2021		7.29		5.8	7.81	7.58	5.19
2/11/2021			5.73				
3/1/2021			5.78				
3/3/2021		7.92			8.39	8.23	
3/4/2021	6.8			5.54			5.23
8/19/2021					5.34		
8/26/2021				6.91			
8/27/2021		7.14				7.39	
9/1/2021	6.65						
9/3/2021							4.75
2/8/2022				5.78			5.26
2/9/2022	6.84	5.89			7.97	7.66	
2/11/2022			5.59				
8/30/2022	6.58	7.04					
8/31/2022			5.87	5.3	7.65	7.49	4.53

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		6.36	7.67	5.75
7/26/2016		6.22	7.66	5.72
8/30/2016	5.75			
9/14/2016		6.23	7.6	5.74
11/2/2016		6.08	7.35	
11/4/2016				5.61
11/14/2016	5.59			
1/12/2017			7.49	5.71
1/13/2017		6.19		
2/24/2017	5.49			
3/6/2017		6.2		
3/7/2017			7.43	5.66
5/1/2017		6.21	7.22	
5/2/2017				5.65
5/8/2017	5.58			
6/27/2017			7.32	5.7
6/29/2017		6.21		
7/11/2017	5.58			
10/3/2017			7.48	5.79
10/5/2017		6.16		
10/10/2017	5.49			
3/29/2018		6.09	7.02	5.63
4/2/2018	6.3			
6/6/2018			7.43	
6/7/2018		6.12		5.63
9/19/2018	5.48			
9/26/2018		5.84	7.13	5.63
3/4/2019		6.18	7.46	5.75
3/27/2019	5.83			
4/3/2019		6.43	7.11	5.63
8/20/2019	5.58			
9/24/2019			6.93	5.6
9/25/2019		6.2		
10/8/2019	5.59			
2/12/2020		6.15	7.52	5.83
3/17/2020	5.57			
3/24/2020			7.34	5.81
3/25/2020		6.26		
8/27/2020	4.88			
9/22/2020	5.46	5.8	7.19	5.99
2/8/2021				5.67
2/9/2021		6.06		
3/1/2021	5.48			
3/2/2021			7.15	5.63
3/3/2021		6.21		
8/19/2021	5.5			
8/26/2021		5.82	7.16	5.51
2/8/2022	5.4			
2/10/2022			6.99	5.14
2/11/2022		5.95		
8/30/2022			7.4	5
8/31/2022	5.32	5.5		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	<0.005						
9/12/2001	<0.005						
9/3/2002	<0.005						
7/29/2003	0.015						
12/5/2003	<0.005						
9/22/2004	<0.005						
5/1/2007		<0.005					
9/11/2007		<0.005					
3/20/2008		<0.005					
8/27/2008		<0.005					
3/3/2009		<0.005					
11/18/2009		<0.005					
3/3/2010		<0.005					
9/8/2010		<0.005					
11/22/2010				<0.005		<0.005	
1/4/2011				<0.005		<0.005	
2/17/2011				<0.005		<0.005	
3/10/2011		<0.005					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.005
9/8/2011		<0.005	<0.005				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		0.014
3/6/2012				<0.005			
9/5/2012			<0.005		<0.005		0.012
9/10/2012	<0.005					0.011	
9/11/2012				<0.005			
2/5/2013			<0.005				0.011
2/6/2013	<0.005			<0.005	<0.005	0.011	
8/12/2013	<0.005						
8/13/2013			<0.005	<0.005	0.0057		
8/14/2013						0.013	0.025
2/4/2014			<0.005	<0.005		0.017	
2/5/2014	<0.005				<0.005		0.02
8/4/2014					<0.005	0.0085	0.032
8/5/2014	<0.005	<0.005	<0.005	<0.005			
2/2/2015			<0.005	<0.005		0.0089	
2/3/2015					<0.005		0.011
2/4/2015	<0.005						
8/3/2015	<0.005				<0.005 (D)	0.0067 (D)	0.046 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016	<0.005	<0.005			<0.005	0.0047 (J)	0.022
2/17/2016				<0.005			
8/31/2016	<0.005		0.0039 (J)	0.0029 (J)	0.0038 (J)		
9/1/2016						0.0132	0.0212
11/28/2016	<0.005			0.0019 (J)			
11/29/2016			0.0033 (J)				
11/30/2016					0.0054 (J)	0.0046 (J)	
12/1/2016							0.0234
2/22/2017	<0.005			0.0015 (J)			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			0.0097 (J)		0.002 (J)		
2/24/2017						0.0108	0.0154
5/8/2017		<0.005					
5/9/2017			0.0066 (J)		<0.005		
5/10/2017				0.0016 (J)		0.0054 (J)	0.0152
7/17/2017		<0.005					0.0136
7/18/2017			0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)	
10/16/2017		<0.005					0.0242
10/17/2017			0.003 (J)	0.0028 (J)		0.004 (J)	
10/18/2017					0.0047 (J)		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		0.0127
8/6/2018		<0.005					
8/7/2018			<0.005		0.0016 (J)		0.021
8/8/2018				0.0025 (J)		0.0041 (J)	
2/25/2019		<0.005					
2/26/2019			0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024
6/12/2019		<0.005		0.0034 (J)		0.0029 (J)	
6/13/2019			<0.005		0.0089 (J)		0.027
8/19/2019		<0.005				0.003 (J)	
8/20/2019			0.0022 (J)	0.0032 (J)			
8/21/2019					0.004 (J)		0.037
10/8/2019		<0.005					
10/9/2019			0.0023 (J)	0.0026 (J)			0.034
10/10/2019					0.0021 (J)	0.0024 (J)	
3/17/2020		<0.005	0.0017 (J)		0.0096 (J)		
3/18/2020				0.0032 (J)		0.0046 (J)	0.028
8/26/2020		<0.005					
8/27/2020			0.011				0.021
8/28/2020				0.0037 (J)	0.0045 (J)	0.0031 (J)	
9/22/2020		<0.005	0.012	0.0056 (J)	0.0091 (J)	0.0032 (J)	
9/23/2020							0.026
3/1/2021			0.011	0.0043 (J)		0.0041 (J)	
3/2/2021		<0.005			0.012		0.019
8/18/2021			0.019	0.0042 (J)	0.017	0.0046 (J)	0.017
8/20/2021		<0.005					
2/8/2022		<0.005	0.02		0.0091	0.0044 (J)	
2/9/2022				0.0042 (J)			0.017
8/30/2022		<0.005	0.03		0.0068	0.0038 (J)	0.019
8/31/2022				0.0042 (J)			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.005						
11/18/2009	<0.005						
1/5/2010	<0.005						
3/3/2010	<0.005						
9/7/2010	<0.005						
3/10/2011	<0.005						
9/8/2011	<0.005						
3/5/2012	<0.005						
9/5/2012	<0.005						
2/5/2013	<0.005						
8/13/2013	<0.005						
2/4/2014	<0.005						
8/5/2014	<0.005						
2/3/2015	<0.005						
8/4/2015	<0.005						
2/16/2016	<0.005						
6/1/2016						<0.005	<0.005
6/2/2016		0.0011 (J)					
6/6/2016				<0.005	<0.005		
6/7/2016			0.001 (J)				
7/25/2016							<0.005
7/26/2016		0.0016 (J)				<0.005	
7/27/2016			0.0012 (J)	<0.005	<0.005		
9/1/2016	0.002 (J)						
9/13/2016						<0.005	<0.005
9/15/2016		0.0014 (J)					
9/16/2016			0.0015 (J)		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			0.0015 (J)	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	0.0017 (J)						
1/10/2017		0.0012 (J)					
1/11/2017			0.0014 (J)	<0.005	<0.005	<0.005	
1/16/2017							<0.005
2/23/2017	0.0018 (J)						
3/1/2017				<0.005	<0.005		
3/2/2017			0.0017 (J)			<0.005	<0.005
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						<0.005	<0.005
5/2/2017			<0.005				
5/10/2017	0.0023 (J)						
6/27/2017						<0.005	<0.005
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	0.0046 (J)						
10/18/2017	0.0037 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
6/7/2018				<0.005			
6/11/2018			<0.005		<0.005		
8/6/2018	0.0047 (J)						
9/25/2018			<0.005	<0.005	<0.005		
2/25/2019	0.0051 (J)						
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	<0.005
3/29/2019		0.0019 (J)					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	0.0048 (J)						
8/20/2019	0.0039 (J)						
9/24/2019						<0.005	<0.005
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	0.0031 (J)						
2/10/2020						<0.005	<0.005
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020		<0.005					
3/17/2020	0.0026 (J)						
3/18/2020		<0.005					<0.005
3/19/2020						<0.005	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	0.0027 (J)						
9/23/2020	0.0031 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.002 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2021	0.0016 (J)						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2022		0.0014 (J)					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		<0.005	
6/7/2016	<0.005	0.00048 (J)					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	0.0014 (J)		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			<0.005	<0.005			
2/21/2017				<0.005			
3/1/2017							<0.005
3/2/2017						<0.005	
3/3/2017			<0.005				
3/6/2017	<0.005	<0.005					
4/26/2017	<0.005	<0.005		<0.005		<0.005	<0.005
4/28/2017			<0.005				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	<0.005	<0.005					
6/30/2017				<0.005			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/5/2018		<0.005					
6/6/2018	<0.005						
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					0.0015 (J)		
9/25/2018	<0.005	<0.005					
2/26/2019				<0.005			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	<0.005					
3/29/2019			<0.005				
4/1/2019				<0.005		<0.005	<0.005
4/2/2019		<0.005					
4/3/2019	<0.005						
8/21/2019					<0.005		
9/24/2019		<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/25/2019	<0.005			<0.005		<0.005	<0.005
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	<0.005	<0.005		<0.005	<0.005	<0.005	
3/19/2020			<0.005	<0.005		<0.005	<0.005
3/24/2020	<0.005	<0.005					
3/25/2020					<0.005		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	<0.005	<0.005		<0.005	<0.005		
2/9/2021	<0.005	<0.005					
2/10/2021			<0.005		<0.005	<0.005	<0.005
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		<0.005			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					<0.005		
2/9/2022	<0.005	<0.005	<0.005			<0.005	<0.005
2/11/2022				<0.005			
8/30/2022		<0.005	<0.005				
8/31/2022	<0.005			<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	<0.005	<0.005
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)
8/30/2016		0.0017 (J)			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		<0.005			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		0.0011 (J)			
3/6/2017			<0.005		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				<0.005	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		<0.005			
10/12/2017	<0.005				
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				<0.005	
6/7/2018			<0.005		<0.005
6/28/2018	0.0032 (J)				
8/7/2018	0.0031 (J)				
9/19/2018		<0.005			
9/24/2018	0.0026 (J)				
9/26/2018			<0.005	<0.005	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	0.0024 (J)				
9/24/2019				<0.005	<0.005
9/25/2019			<0.005		
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)		<0.005	<0.005	<0.005
3/24/2020	0.002 (J)			<0.005	<0.005
3/25/2020			<0.005		
8/27/2020		<0.005			
9/22/2020			<0.005	<0.005	<0.005
9/24/2020	0.0016 (J)				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/2/2021				<0.005	<0.005
3/3/2021			0.0019 (J)		
3/4/2021	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/19/2021		<0.005			
8/26/2021			<0.005	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	0.0014 (J)	<0.005			
2/10/2022				<0.005	<0.005
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005		

Time Series

Constituent: Silver (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.005						
9/11/2007	<0.005						
3/20/2008	<0.005						
8/27/2008	<0.005						
3/3/2009	<0.005						
9/9/2009							<0.005
11/18/2009	<0.005						<0.005
1/5/2010							<0.005
3/3/2010	<0.005						<0.005
9/7/2010							<0.005
9/8/2010	<0.005						
11/22/2010			<0.005		<0.005		
1/4/2011			<0.005		<0.005		
2/17/2011			<0.005		<0.005		
3/10/2011	<0.005						<0.005
3/11/2011			<0.005		<0.005		
3/28/2011			<0.005		<0.005		
9/7/2011			<0.005	<0.005	<0.005	<0.005	
9/8/2011	<0.005	<0.005					<0.005
3/4/2012					<0.005		
3/5/2012	<0.005	<0.005		<0.005		<0.005	<0.005
3/6/2012			<0.005				
9/5/2012		<0.005		<0.005		<0.005	<0.005
9/10/2012	<0.005				<0.005		
9/11/2012			<0.005				
2/5/2013		<0.005				<0.005	<0.005
2/6/2013	<0.005		<0.005	<0.005	<0.005		
8/12/2013	<0.005						
8/13/2013		<0.005	<0.005	<0.005			<0.005
8/14/2013					<0.005	<0.005	
2/4/2014		<0.005	<0.005		<0.005		<0.005
2/5/2014	<0.005			<0.005		<0.005	
8/4/2014				<0.005	<0.005	<0.005	
8/5/2014	<0.005	<0.005	<0.005				<0.005
2/2/2015		<0.005	<0.005		<0.005		
2/3/2015				<0.005		<0.005	<0.005
2/4/2015	<0.005						
8/3/2015	<0.005			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015		<0.005 (D)	<0.005				<0.005
2/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/17/2016			<0.005				
2/22/2017	<0.005		<0.005				
2/23/2017		<0.005		<0.005			<0.005
2/24/2017					<0.005	<0.005	
2/19/2018	<0.005						<0.005
2/20/2018			<0.005		<0.005		
2/21/2018		<0.005		<0.005		<0.005	
8/6/2018	<0.005						<0.005
8/7/2018		<0.005		<0.005		<0.005	
8/8/2018			<0.005		<0.005		
2/25/2019	<0.005						<0.005
2/26/2019		<0.005	<0.005	<0.005	<0.005	<0.005	

Time Series

Constituent: Silver (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
6/12/2019	<0.005		<0.005		<0.005		
6/13/2019		<0.005		<0.005		<0.005	<0.005
10/8/2019	<0.005						<0.005
10/9/2019		<0.005	<0.005			<0.005	
10/10/2019				<0.005	<0.005		
3/17/2020	<0.005	<0.005		<0.005			<0.005
3/18/2020			<0.005		<0.005	<0.005	
9/22/2020	<0.005	<0.005	<0.005	<0.005	<0.005		
9/23/2020						<0.005	<0.005
3/1/2021		<0.005	<0.005		<0.005		
3/2/2021	<0.005			<0.005		<0.005	
3/3/2021							<0.005
8/18/2021		<0.005	<0.005	<0.005	<0.005	0.00084 (J)	<0.005
8/20/2021	<0.005						
2/8/2022	<0.005	<0.005		<0.005	<0.005		<0.005
2/9/2022			<0.005			<0.005	
8/30/2022	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
8/31/2022			<0.005				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	29	410	140	87			
9/1/2016					150	990	360
11/28/2016	36		120				
11/29/2016		450					320
11/30/2016				76	50		
12/1/2016						1100	
2/22/2017	43		100				
2/23/2017		390		47			380
2/24/2017					110	850	
5/8/2017	60						
5/9/2017		280		41			
5/10/2017			80		70	1000	660
7/17/2017	63					830	
7/18/2017		200	57	44	50		880
10/16/2017	62					720	
10/17/2017		180	59		58		
10/18/2017				53			760
2/19/2018	64.6						718
2/20/2018			55.9		64.6		
2/21/2018		146		46.7		533	
8/6/2018	42.1						797
8/7/2018		100		38.8		784	
8/8/2018			81.1		79.5		
2/25/2019	42.1						763
2/26/2019		118	129	49.3	55.8	742	
6/12/2019	83.4		180		92.8		
6/13/2019		163		77.1		976	918
10/8/2019	128						664
10/9/2019		318	91.2			1180	
10/10/2019				48	68.7		
3/17/2020	98.6	145		95.2			303
3/18/2020			200		199	960	
9/22/2020	145	478	216	55.1	72.1		
9/23/2020						992	518
3/1/2021		525	244		177		
3/2/2021	156			95.5		906	
3/3/2021							476
8/18/2021		675	223	114	118	946	345
8/20/2021	121						
2/8/2022	107	687		93.5	146		260
2/9/2022			241			937	
8/30/2022	101	994		76	155	939	174
8/31/2022			280				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	6.1						
3/2/2021	6						
3/3/2021		5.2	<1	1	9	4.4	<1
8/19/2021	6.7				8.9	4.9	
8/26/2021				1.2			
8/27/2021		5.3	0.59 (J)				<1
2/9/2022		4.8	0.51 (J)	1.1	9.3	5.1	<1
2/10/2022	6.2						
8/30/2022		4.7	0.78 (J)	1.3	10.2		
8/31/2022	5.8					4.8	<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						12	
6/2/2016			1.3		5.8		
6/7/2016	5.2						
7/25/2016			1.2			8.4	
7/26/2016					6.7		
7/28/2016	5.1						
9/14/2016		9.4				8.6	
9/15/2016					6		
9/19/2016	4.8		1.2				
11/1/2016			1.3		4.9	8.9	
11/3/2016	5						
11/4/2016		13					
12/15/2016		1.8					
1/11/2017					4.5	8.6	
1/13/2017	4.3						
1/16/2017		11	<1				
2/21/2017			1.4				
3/1/2017						9.3	
3/2/2017					4.4		
3/3/2017		8.8					
3/6/2017	4.5						
4/26/2017	4.9		1.4		5.1	11	
4/28/2017		10					
5/26/2017		12					
6/28/2017		11			5.4	12	
6/29/2017	5.5						
6/30/2017			<1				
10/3/2017	5.8	7.9					
10/4/2017			1.4		6.2	12	
10/11/2017				20			
10/12/2017							17
11/20/2017				24			71
1/10/2018							66
1/11/2018				23			
2/19/2018							57.2
2/20/2018				20.6			
4/3/2018				24.5			49.4
6/5/2018	6.1						
6/7/2018		8.8			6.7		
6/8/2018						9.6	
6/11/2018			1.1				
6/28/2018				22			43.8
8/7/2018				20.7			40.5
9/24/2018				21.2			39.7
9/25/2018	7						
10/1/2018		9.1			7.1	9.1	
10/2/2018			1				
3/26/2019							34.3
3/27/2019				17.7			
3/29/2019		9					
4/1/2019			0.96 (J)		7.2	8.5	
4/2/2019	3.8						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	1	9.1					
9/25/2019			0.81 (J)		7	13.8	
10/9/2019				15			27.9
3/19/2020		12.4	1.6		9	12.9	
3/24/2020	3						25.2
3/25/2020				14.3			
9/23/2020		11.8			6.9	16.8	
9/24/2020	3.6		0.69 (J)	11.7			22.9
3/1/2021			0.88 (J)				
3/3/2021		10.6			7	9.6	
3/4/2021	4.5			12			21.5
8/19/2021			1		7.5		
8/26/2021				19.2			
8/27/2021		16.7				18.2	
9/1/2021	5						
9/3/2021							21.3
2/8/2022				14.6			17.9
2/9/2022	3.9	18			7.2	16	
2/11/2022			2.8				
8/30/2022	3.2	20.1					
8/31/2022			1.1	10.9	6.9	13.9	17.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		8	20	1.9
7/26/2016		7.7	20	1.8
8/30/2016	160			
9/14/2016		7.5	19	1.8
11/2/2016		8.2	20	
11/4/2016				2
11/14/2016	150			
1/12/2017			19	1.9
1/13/2017		8.1		
2/24/2017	120			
3/6/2017		8		
3/7/2017			20	2.1
5/1/2017		8.4	20	
5/2/2017				2
5/8/2017	120			
6/27/2017			18	2.1
6/29/2017		9.2		
7/11/2017	110			
10/3/2017			16	2.3
10/5/2017		9.6		
10/10/2017	93			
4/2/2018	88.8			
6/6/2018			8.3	
6/7/2018		8.5		2
9/19/2018	75			
9/26/2018		10.2	7.9	2.3
3/27/2019	65.9			
4/3/2019		8.5	7	2.1
9/24/2019			5.5	2.4
9/25/2019		8.5		
10/8/2019	52.3			
3/17/2020	71.6			
3/24/2020			5.9	2.1
3/25/2020		8.8		
9/22/2020	51.5	8.2	5.5	2.1
3/1/2021	51.6			
3/2/2021			2.6	2.3
3/3/2021		7.8		
8/19/2021	52.6			
8/26/2021		8.5	6	2.4
2/8/2022	50.9			
2/10/2022			4.9	2.4
2/11/2022		7.7		
8/30/2022			5.7	2.4
8/31/2022	48	8		

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	209	616	257	216			
9/1/2016					553	1400	578
11/28/2016	102		177				
11/29/2016		594					455
11/30/2016				177 (B)	247 (B)		
12/1/2016						1610 (B)	
2/22/2017	164		240				
2/23/2017		581		105			614
2/24/2017					414	1200	
5/8/2017	145						
5/9/2017		410		77			
5/10/2017			149		251	1360	955
7/17/2017	185					1340	
7/18/2017		322	122	89	179		1270
10/16/2017	218					1080	
10/17/2017		381	214		256		
10/18/2017				166			1150
2/19/2018	173						1070
2/20/2018			131		233		
2/21/2018		285		105		830	
8/6/2018	158						1260
8/7/2018		242		99		1180	
8/8/2018			166		292		
2/25/2019	92						1160
2/26/2019		69	293	109	226	1010	
6/12/2019	226		391		298		
6/13/2019		301		136		1410	1310
10/8/2019	276						1050
10/9/2019		526	372			1680	
10/10/2019				109	247		
3/17/2020	185	306		175			588
3/18/2020			351		703	1520	
9/22/2020	281	675	394	110	217		
9/23/2020						1000	820
3/1/2021		974	516		666		
3/2/2021	296 (D)			167		980	
3/3/2021							942
8/18/2021		1200	474	214	630	1660	682
8/20/2021	254						
2/8/2022	283	1310		231	648		549
2/9/2022			466			1440	
8/30/2022	244	1600		150	628	1570	400
8/31/2022			510				

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					120	54	
6/2/2016	46						
6/6/2016			120	58			
6/7/2016		28					38
7/25/2016						48	
7/26/2016	54				94		
7/27/2016		74	94	35			74
9/13/2016					105	67	
9/15/2016	54						
9/16/2016		67		35			
9/19/2016			92				45
11/1/2016					44		
11/2/2016	71						53
11/3/2016		41	104	48			
11/4/2016						60	
1/10/2017	45						
1/11/2017		104	133	95	107		
1/13/2017							46
1/16/2017						65	
3/1/2017			119	79			
3/2/2017		77			98	61	
3/6/2017							164
3/8/2017	178						
4/26/2017	52		162	36			34
4/27/2017					116	31	
5/2/2017		142					
6/27/2017					89	42	
6/28/2017			98	45			
6/29/2017		53					68
6/30/2017	45						
10/3/2017					119	58	
10/4/2017		61		45			54
10/5/2017	40		104				
6/5/2018					127		
6/6/2018						96	79
6/7/2018			68				
6/8/2018	114						
6/11/2018		70		74			
9/25/2018		86	109	63			73
10/1/2018	50				117	60	
3/28/2019					87	87	
3/29/2019	63						
4/2/2019		72					
4/3/2019			89	63			57
9/24/2019					124	54	
9/25/2019	64	81					75
9/26/2019			126	72			
3/18/2020	57					35	
3/19/2020					116		
3/24/2020		71	91	59			76
9/23/2020		99	103	81	108	15	
9/24/2020							69

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	54						
3/2/2021	67						
3/3/2021		57	95	37	99	39	53
8/19/2021	54				105	44	
8/26/2021				31			
8/27/2021		93	112				67
2/9/2022		81	103	60	105	57	72
2/10/2022	56						
8/30/2022		81	100	52	116		
8/31/2022	51					46	62

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						150	
6/2/2016			36		130		
6/7/2016	60						
7/25/2016			50			135	
7/26/2016					141		
7/28/2016	81						
9/14/2016		152				127	
9/15/2016					153		
9/19/2016	68		35				
11/1/2016			<25		92	75	
11/3/2016	61						
11/4/2016		148					
12/15/2016		191					
1/11/2017					159	148	
1/13/2017	76						
1/16/2017		180	47				
2/21/2017			<25				
3/1/2017						182	
3/2/2017					117		
3/3/2017		156					
3/6/2017	167						
4/26/2017	50		55		181	92	
4/28/2017		130					
5/26/2017		223					
6/28/2017		166			169	126	
6/29/2017	94						
6/30/2017			42				
10/3/2017	149	153					
10/4/2017			31		141	147	
10/11/2017				68			
10/12/2017							74
11/20/2017				139			179
1/10/2018							140
1/11/2018				153			
2/19/2018							119
2/20/2018				87			
4/3/2018				85			106
6/5/2018	109						
6/7/2018		146			95		
6/8/2018						158	
6/11/2018			59				
6/28/2018				88			112
8/7/2018				89			103
9/24/2018				82			107
9/25/2018	122						
10/1/2018		155			165	138	
10/2/2018			57				
3/26/2019							90
3/27/2019				75			
3/29/2019		150					
4/1/2019			54		149	19 (J)	
4/2/2019	134						

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	157	146					
9/25/2019			51		157	159	
10/9/2019				119			98
3/19/2020		148	47		146	148	
3/24/2020	117						84
3/25/2020				158			
9/23/2020		161			157	155	
9/24/2020	113		51	170			77
3/1/2021			23				
3/3/2021		138			137	111	
3/4/2021	110			168			57
8/19/2021			50		144		
8/26/2021				249			
8/27/2021		150				155	
9/1/2021	137						
9/3/2021							88
2/8/2022				248			93
2/9/2022	131	156			154	145	
2/11/2022			66				
8/30/2022	122	153					
8/31/2022			33	242	141	137	92

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		96	160	66
7/26/2016		92	177	78
8/30/2016	319			
9/14/2016		102	187	73
11/2/2016		115	181	
11/4/2016				75
11/14/2016	280			
1/12/2017			202	86
1/13/2017		67		
2/24/2017	162			
3/6/2017		159		
3/7/2017			257	108
5/1/2017		107	165	
5/2/2017				103
5/8/2017	194			
6/27/2017			189	73
6/29/2017		79		
7/11/2017	193			
10/3/2017			170	89
10/5/2017		95		
10/10/2017	175			
4/2/2018	192			
6/6/2018			151	
6/7/2018		90		142
9/19/2018	186			
9/26/2018		116	144	86
3/27/2019	170			
4/3/2019		111	142	83
9/24/2019			129	79
9/25/2019		117		
10/8/2019	172			
3/17/2020	165			
3/24/2020			139	68
3/25/2020		146		
9/22/2020	141	83	104	75
3/1/2021	145			
3/2/2021			52	67
3/3/2021		80		
8/19/2021	134			
8/26/2021		93	123	86
2/8/2022	151			
2/10/2022			127	77
2/11/2022		102		
8/30/2022			148	86
8/31/2022	116	92		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.001						
9/11/2007	<0.001						
3/20/2008	<0.001						
8/27/2008	<0.001						
3/3/2009	<0.001						
9/9/2009							<0.001
11/18/2009	<0.001						<0.001
1/5/2010							<0.001
3/3/2010	<0.001						<0.001
9/7/2010							<0.001
9/8/2010	<0.001						
11/22/2010			<0.001		<0.001		
1/4/2011			<0.001		<0.001		
2/17/2011			<0.001		<0.001		
3/10/2011	<0.001						<0.001
3/11/2011			<0.001		<0.001		
3/28/2011			<0.001		<0.001		
9/7/2011			<0.001	<0.001	<0.001	<0.001	
9/8/2011	<0.001	<0.001					<0.001
3/4/2012					<0.001		
3/5/2012	<0.001	<0.001		<0.001		<0.001	<0.001
3/6/2012			<0.001				
9/5/2012		<0.001		<0.001		<0.001	<0.001
9/10/2012	<0.001				<0.001		
9/11/2012			<0.001				
2/5/2013		<0.001				<0.001	<0.001
2/6/2013	<0.001		<0.001	<0.001	<0.001		
8/12/2013	<0.001						
8/13/2013		<0.001	<0.001	<0.001			<0.001
8/14/2013					<0.001	<0.001	
2/4/2014		<0.001	<0.001		<0.001		<0.001
2/5/2014	<0.001			<0.001		<0.001	
8/4/2014				<0.001	<0.001	<0.001	
8/5/2014	<0.001	<0.001					<0.001
2/2/2015		<0.001	<0.001		<0.001		
2/3/2015				<0.001		<0.001	<0.001
2/4/2015	<0.001						
2/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/17/2016			7E-05 (J)				
8/31/2016	<0.001	<0.001	<0.001	<0.001			
9/1/2016					<0.001	<0.001	<0.001
11/28/2016	<0.001		<0.001				
11/29/2016		<0.001					<0.001
11/30/2016				<0.001	<0.001		
12/1/2016						<0.001	
2/22/2017	<0.001		<0.001				
2/23/2017		<0.001		<0.001			<0.001
2/24/2017					<0.001	<0.001	
5/8/2017	6E-05 (J)						
5/9/2017		<0.001		<0.001			
5/10/2017			<0.001		<0.001	<0.001	<0.001
7/17/2017	6E-05 (J)					<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
7/18/2017		<0.001	<0.001	<0.001	<0.001		<0.001
10/16/2017	7E-05 (J)					<0.001	
10/17/2017		<0.001	<0.001		<0.001		
10/18/2017				<0.001			<0.001
2/19/2018	<0.001						<0.001
2/20/2018			<0.001		<0.001		
2/21/2018		<0.001		<0.001		<0.001	
8/6/2018	<0.001						<0.001
8/7/2018		<0.001		<0.001		<0.001	
8/8/2018			<0.001		<0.001		
2/25/2019	<0.001						<0.001
2/26/2019		<0.001	<0.001	<0.001	<0.001	<0.001	
6/12/2019	<0.001		<0.001		<0.001		
6/13/2019		<0.001		<0.001		<0.001	<0.001
8/19/2019	5.5E-05 (J)				<0.001		
8/20/2019		<0.001	<0.001				<0.001
8/21/2019				<0.001		5.3E-05 (J)	
10/8/2019	<0.001						<0.001
10/9/2019		<0.001	<0.001			<0.001	
10/10/2019				<0.001	<0.001		
3/17/2020	<0.001	<0.001		<0.001			<0.001
3/18/2020			<0.001		<0.001	<0.001	
8/26/2020	<0.001						
8/27/2020		<0.001				<0.001	<0.001
8/28/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001	<0.001	<0.001	<0.001		
9/23/2020						<0.001	<0.001
3/1/2021		<0.001	<0.001		<0.001		
3/2/2021	<0.001			<0.001		<0.001	
3/3/2021							<0.001
8/18/2021		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2021	<0.001						
2/8/2022	<0.001	<0.001		<0.001	<0.001		<0.001
2/9/2022			<0.001			<0.001	
8/30/2022	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
8/31/2022			<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.001	<0.001	
6/2/2016	<0.001						
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001					<0.001
7/25/2016						<0.001	
7/26/2016	<0.001				<0.001		
7/27/2016		<0.001	<0.001	<0.001			<0.001
9/13/2016					<0.001	<0.001	
9/15/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001				<0.001
11/1/2016					<0.001		
11/2/2016	<0.001						<0.001
11/3/2016		<0.001	<0.001	<0.001			
11/4/2016						<0.001	
1/10/2017	<0.001						
1/11/2017		<0.001	<0.001	<0.001	<0.001		
1/13/2017							<0.001
1/16/2017						<0.001	
3/1/2017			<0.001	<0.001			
3/2/2017		<0.001			<0.001	<0.001	
3/6/2017							<0.001
3/8/2017	<0.001						
4/26/2017	<0.001		<0.001	<0.001			<0.001
4/27/2017					<0.001	<0.001	
5/2/2017		<0.001					
6/27/2017					<0.001	<0.001	
6/28/2017			<0.001	<0.001			
6/29/2017		<0.001					<0.001
6/30/2017	<0.001						
3/27/2018	<0.001					<0.001	
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001		<0.001
2/26/2019	<0.001						
2/27/2019					<0.001	<0.001	
3/5/2019		<0.001		<0.001			<0.001
3/6/2019			<0.001				
4/2/2019		<0.001					
4/3/2019			<0.001	<0.001			<0.001
9/25/2019		<0.001					<0.001
9/26/2019			<0.001	<0.001			
2/10/2020					<0.001	5.5E-05 (J)	
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020	8.9E-05 (J)						<0.001
3/18/2020	<0.001					<0.001	
3/19/2020					<0.001		
3/24/2020		<0.001	<0.001	<0.001			<0.001
9/23/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
9/24/2020							<0.001
9/25/2020	<0.001						
2/9/2021			<0.001	<0.001			<0.001
2/10/2021	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/12/2021					<0.001	<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001						
8/30/2022		<0.001	<0.001	<0.001	<0.001		
8/31/2022	<0.001					<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.001	
6/2/2016			<0.001		<0.001		
6/7/2016	<0.001						
7/25/2016			<0.001			<0.001	
7/26/2016					0.0001 (J)		
7/28/2016	<0.001						
9/14/2016		<0.001				<0.001	
9/15/2016					<0.001		
9/19/2016	<0.001		<0.001				
11/1/2016			<0.001		<0.001	<0.001	
11/3/2016	<0.001						
11/4/2016		<0.001					
12/15/2016		<0.001					
1/11/2017					<0.001	<0.001	
1/13/2017	<0.001						
1/16/2017		<0.001	<0.001				
2/21/2017			<0.001				
3/1/2017						<0.001	
3/2/2017					<0.001		
3/3/2017		<0.001					
3/6/2017	<0.001						
4/26/2017	<0.001		<0.001		<0.001	<0.001	
4/28/2017		<0.001					
5/26/2017		<0.001					
6/28/2017		<0.001			<0.001	<0.001	
6/29/2017	<0.001						
6/30/2017			<0.001				
10/11/2017				<0.001			
10/12/2017							<0.001
11/20/2017				<0.001			<0.001
1/10/2018							<0.001
1/11/2018				<0.001			
2/19/2018							<0.001
2/20/2018				<0.001			
3/27/2018			<0.001				
3/28/2018		<0.001			<0.001	<0.001	
3/29/2018	<0.001						
4/3/2018				<0.001			<0.001
6/28/2018				<0.001			<0.001
8/7/2018				<0.001			<0.001
9/24/2018				<0.001			<0.001
9/25/2018	<0.001						
2/26/2019			<0.001				
2/27/2019		<0.001			<0.001	<0.001	
3/5/2019	<0.001						
4/2/2019	<0.001						
8/21/2019				<0.001			<0.001
9/24/2019	<0.001						
2/11/2020		<0.001				<0.001	
2/12/2020	<0.001		<0.001	<0.001	<0.001		<0.001
3/19/2020		<0.001	<0.001		<0.001	<0.001	
3/24/2020	<0.001						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
3/25/2020				<0.001			
9/23/2020		<0.001			<0.001	0.00016 (J)	
9/24/2020	<0.001		<0.001	<0.001			<0.001
2/9/2021	<0.001						
2/10/2021		<0.001		<0.001	<0.001	<0.001	<0.001
2/11/2021			<0.001				
2/8/2022				<0.001			<0.001
2/9/2022	<0.001	<0.001			<0.001	<0.001	
2/11/2022			<0.001				
8/30/2022	<0.001	<0.001					
8/31/2022			<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.001	<0.001	<0.001
7/26/2016		<0.001	<0.001	<0.001
8/30/2016	<0.001			
9/14/2016		<0.001	<0.001	<0.001
11/2/2016		<0.001	<0.001	
11/4/2016				<0.001
11/14/2016	<0.001			
1/12/2017			<0.001	<0.001
1/13/2017		<0.001		
2/24/2017	<0.001			
3/6/2017		<0.001		
3/7/2017			<0.001	<0.001
5/1/2017		<0.001	<0.001	
5/2/2017				<0.001
5/8/2017	<0.001			
6/27/2017			<0.001	<0.001
6/29/2017		<0.001		
7/11/2017	<0.001			
10/10/2017	<0.001			
3/29/2018		<0.001	<0.001	<0.001
4/2/2018	<0.001			
9/19/2018	<0.001			
3/4/2019		<0.001	<0.001	<0.001
4/3/2019		<0.001	<0.001	<0.001
8/20/2019	5.8E-05 (J)			
9/24/2019			<0.001	<0.001
9/25/2019		<0.001		
10/8/2019	8.4E-05 (J)			
2/12/2020		<0.001	<0.001	<0.001
3/17/2020	<0.001			
3/24/2020			<0.001	<0.001
3/25/2020		<0.001		
8/27/2020	<0.001			
9/22/2020		<0.001	<0.001	<0.001
2/8/2021			<0.001	<0.001
2/9/2021		<0.001		
8/19/2021	<0.001			
2/8/2022	<0.001			
2/10/2022			<0.001	<0.001
2/11/2022		<0.001		
8/30/2022			<0.001	<0.001
8/31/2022	<0.001	<0.001		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	0.0055						
9/11/2007	0.004						
3/20/2008	<0.01						
8/27/2008	0.0029						
3/3/2009	<0.01						
9/9/2009							<0.01
11/18/2009	<0.01						<0.01
1/5/2010							<0.01
3/3/2010	<0.01						<0.01
9/7/2010							<0.01
9/8/2010	<0.01						
11/22/2010			<0.01		<0.01		
1/4/2011			<0.01		<0.01		
2/17/2011			<0.01		<0.01		
3/10/2011	<0.01						<0.01
3/11/2011			<0.01		<0.01		
3/28/2011			<0.01		<0.01		
9/7/2011			<0.01	<0.01	<0.01	<0.01	
9/8/2011	<0.01	<0.01					<0.01
3/4/2012					<0.01		
3/5/2012	<0.01	<0.01		<0.01		<0.01	<0.01
3/6/2012			<0.01				
9/5/2012		<0.01		<0.01		<0.01	<0.01
9/10/2012	<0.01				<0.01		
9/11/2012			<0.01				
2/5/2013		<0.01				<0.01	<0.01
2/6/2013	<0.01		<0.01	<0.01	<0.01		
8/12/2013	<0.01						
8/13/2013		<0.01	<0.01	<0.01			<0.01
8/14/2013					<0.01	<0.01	
2/4/2014		<0.01	<0.01		<0.01		<0.01
2/5/2014	<0.01			<0.01		<0.01	
8/4/2014				<0.01	<0.01	0.0022 (J)	
8/5/2014	<0.01	0.0011 (J)	<0.01				0.0015 (J)
2/2/2015		0.0051	<0.01		<0.01		
2/3/2015				<0.01		<0.01	0.00093 (J)
2/4/2015	<0.01						
8/3/2015	0.0013 (J)			<0.01 (D)	<0.01 (D)	0.0019 (JD)	
8/4/2015		<0.01 (D)	<0.01				0.0036 (J)
2/16/2016	<0.01	0.00075 (J)		<0.01	<0.01	0.0011 (J)	0.0011 (J)
2/17/2016			<0.01				
2/22/2017	<0.01		<0.01				
2/23/2017		<0.01		<0.01			<0.01
2/24/2017					<0.01	<0.01	
5/8/2017	<0.01						
5/9/2017		<0.01		<0.01			
5/10/2017			<0.01		<0.01	<0.01	<0.01
7/17/2017	<0.01					<0.01	
7/18/2017		<0.01	<0.01	<0.01	<0.01		<0.01
2/19/2018	<0.01						<0.01
2/20/2018			<0.01		<0.01		
2/21/2018		<0.01		<0.01		<0.01	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018	<0.01						0.0029 (J)
8/7/2018		<0.01		<0.01		<0.01	
8/8/2018			<0.01		<0.01		
2/25/2019	<0.01						<0.01
2/26/2019		<0.01	<0.01	<0.01	<0.01	<0.01	
6/12/2019	0.0032 (J)		0.00079 (J)		0.00088 (J)		
6/13/2019		<0.01		0.0021 (J)		<0.01	<0.01
10/8/2019	<0.01						<0.01
10/9/2019		<0.01	<0.01			<0.01	
10/10/2019				0.0011 (J)	<0.01		
3/17/2020	<0.01	<0.01		<0.01			0.00098 (J)
3/18/2020			<0.01		<0.01	<0.01	
9/22/2020	<0.01	<0.01	<0.01	<0.01	<0.01		
9/23/2020						<0.01	<0.01
3/1/2021		<0.01	<0.01		<0.01		
3/2/2021	<0.01			<0.01		<0.01	
3/3/2021							<0.01
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/20/2021	<0.01						
2/8/2022	<0.01	<0.01		<0.01	<0.01		<0.01
2/9/2022			<0.01			<0.01	
8/30/2022	0.0026 (J)	<0.01		<0.01	<0.01	<0.01	<0.01
8/31/2022			<0.01				

Time Series

Constituent: Zinc (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	0.01						
9/20/1999	0.017						
9/12/2001	0.017						
9/3/2002	0.015						
7/29/2003	0.022						
12/5/2003	0.0087						
9/22/2004	<0.01						
5/1/2007		0.0081					
9/11/2007		0.0049					
3/20/2008		0.004					
8/27/2008		0.0042					
3/3/2009		0.0058					
11/18/2009		0.0038					
3/3/2010		0.0085					
9/8/2010		0.0065					
11/22/2010				0.0047		<0.01	
1/4/2011				0.0038		<0.01	
2/17/2011				0.0074		<0.01	
3/10/2011		0.0029					
3/11/2011				0.0038		0.025 (o)	
3/28/2011				<0.01		<0.01	
9/7/2011				0.0059	0.0064	<0.01	0.0064
9/8/2011		0.004	0.0048				
3/4/2012						<0.01	
3/5/2012		0.0059	0.0038		0.0043		0.0034
3/6/2012				0.0032			
9/5/2012			0.0051		0.0069		0.0035
9/10/2012		0.0052				<0.01	
9/11/2012				0.0029			
2/5/2013			<0.01				0.0027
2/6/2013		0.0038		0.0036	<0.01	<0.01	
8/12/2013		0.0075					
8/13/2013			<0.01	0.0066	0.011		
8/14/2013						<0.01	0.0041
2/4/2014			0.0037	0.011		0.0034	
2/5/2014		0.018 (o)			0.026 (o)		0.011
8/4/2014					0.012	0.0013 (J)	0.011
8/5/2014		0.0037	0.0019 (J)	0.0032			
2/2/2015			0.0051	0.0031		<0.01	
2/3/2015					0.0061		0.0044
2/4/2015		0.0057					
8/3/2015		0.0043			0.0037 (D)	<0.01 (D)	0.011 (D)
8/4/2015			0.0017 (JD)	0.0017 (J)			
2/16/2016		0.0024 (J)	0.0015 (J)		0.0093	0.0017 (J)	0.014
2/17/2016				0.0034			
2/22/2017		0.0042 (J)		0.0024 (J)			
2/23/2017			0.0024 (J)		0.0031 (J)		
2/24/2017						0.0028 (J)	0.0043 (J)
5/8/2017		0.0025 (J)					
5/9/2017			0.0016 (J)		0.0025 (J)		
5/10/2017				0.0022 (J)		0.0014 (J)	0.0042 (J)
7/17/2017		0.0032 (J)					0.0055 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
7/18/2017			0.0015 (J)	0.0017 (J)	0.0028 (J)	0.0015 (J)	
2/19/2018		<0.01					
2/20/2018				<0.01		<0.01	
2/21/2018			<0.01		0.003 (J)		0.0102
8/6/2018		0.0037 (J)					
8/7/2018			0.0044 (J)		0.0036 (J)		0.015
8/8/2018				0.0021 (J)		0.0033 (J)	
2/25/2019		0.013					
2/26/2019			0.0022 (J)	0.003 (J)	0.0033 (J)	<0.01	0.015
6/12/2019		<0.01		0.0019 (J)		<0.01	
6/13/2019			<0.01		0.0069 (J)		0.015
10/8/2019		0.0078 (J)					
10/9/2019			0.0078 (J)	0.0069 (J)			0.025
10/10/2019					0.0079 (J)	0.006 (J)	
1/21/2020							0.015
3/17/2020		<0.01	<0.01		<0.01		
3/18/2020				<0.01		<0.01	0.023
9/22/2020		0.033	0.0029 (J)	0.003 (J)	0.0036 (J)	<0.01	
9/23/2020							0.018
3/1/2021			<0.01	<0.01		<0.01	
3/2/2021		0.031			0.0069 (J)		0.022
8/18/2021			<0.01	<0.01	0.011	<0.01	0.026
8/20/2021		0.014					
2/8/2022		0.014	<0.01		0.0098 (J)	<0.01	
2/9/2022				<0.01			0.025
8/30/2022		0.011	<0.01		<0.01	<0.01	0.022
8/31/2022				<0.01			

Time Series

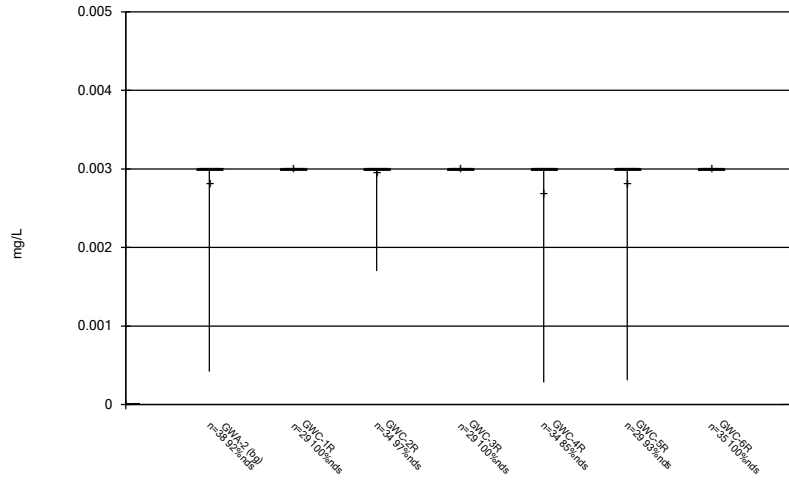
Constituent: Zinc (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R
9/9/2009	0.003
11/18/2009	<0.01
1/5/2010	0.0027
3/3/2010	<0.01
9/7/2010	<0.01
3/10/2011	<0.01
9/8/2011	<0.01
3/5/2012	0.0053
9/5/2012	0.0033
2/5/2013	<0.01
8/13/2013	0.0038
2/4/2014	0.0046
8/5/2014	0.0019 (J)
2/3/2015	0.0026
8/4/2015	0.0035
2/16/2016	0.002 (J)
2/23/2017	0.0038 (J)
5/10/2017	0.0027 (J)
7/18/2017	0.0024 (J)
2/19/2018	<0.01
8/6/2018	0.004 (J)
2/25/2019	0.0028 (J)
6/13/2019	<0.01
10/8/2019	0.006 (J)
3/17/2020	<0.01
9/23/2020	<0.01
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2/8/2022	<0.01
8/30/2022	<0.01

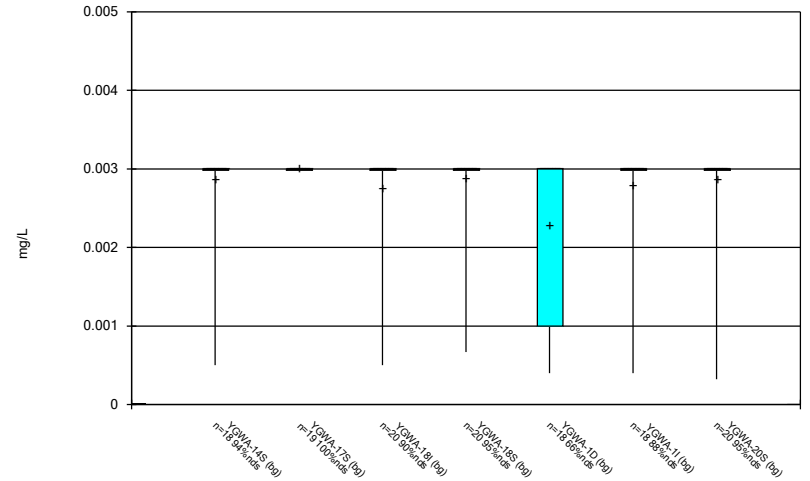
FIGURE B.

Box & Whiskers Plot



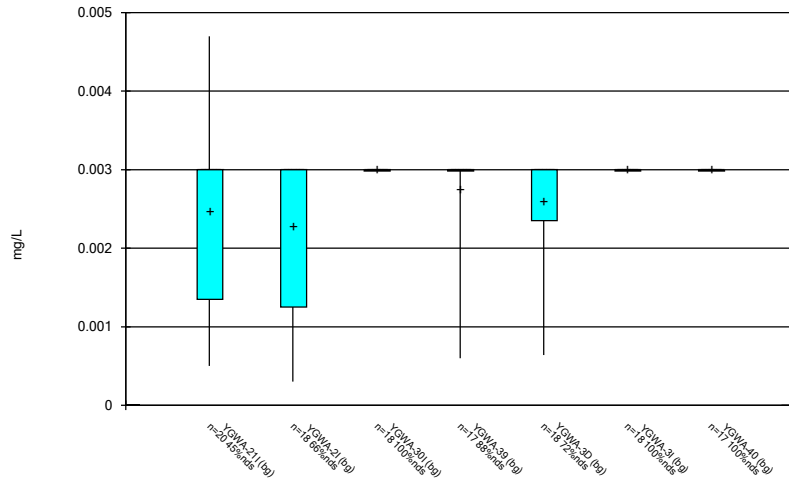
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



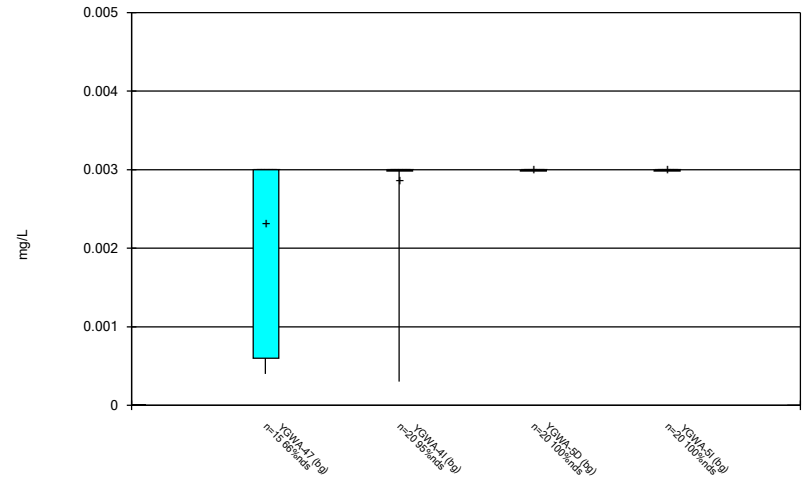
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



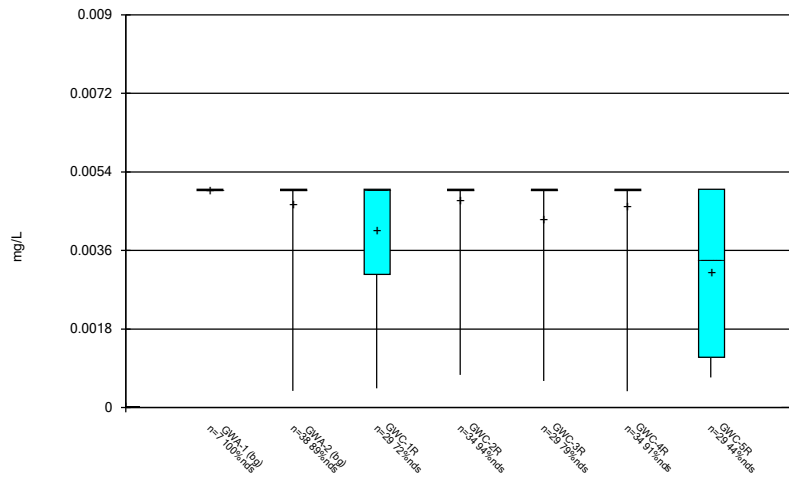
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



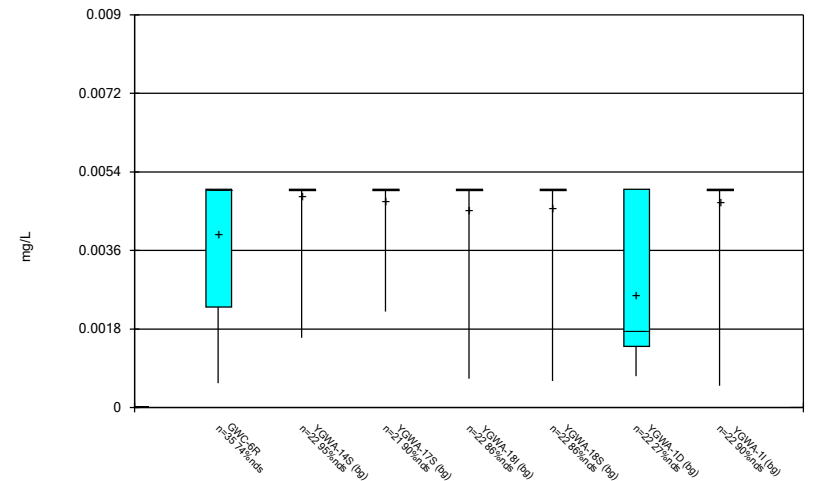
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



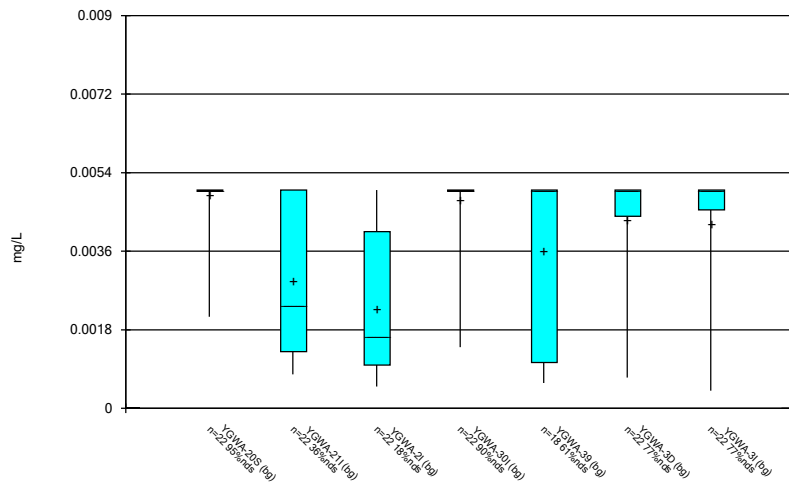
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



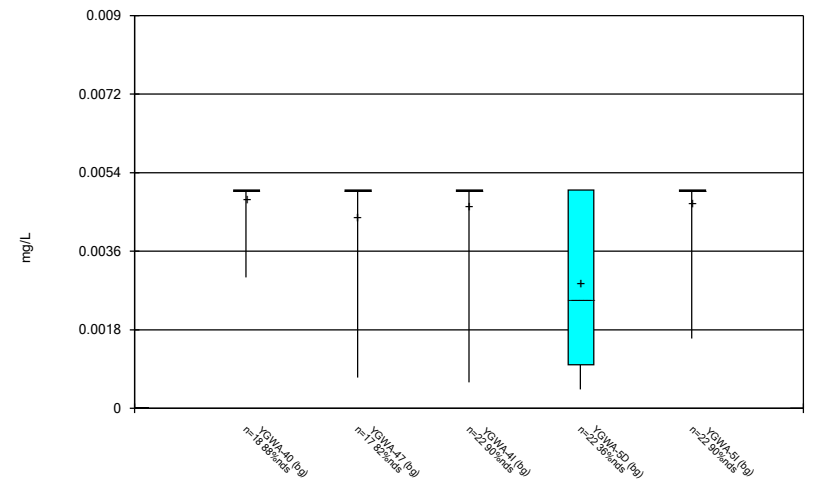
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Box & Whiskers Plot



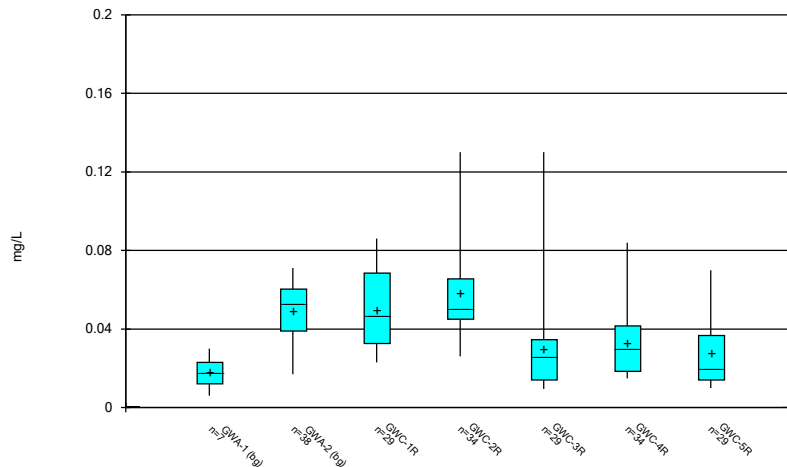
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Box & Whiskers Plot



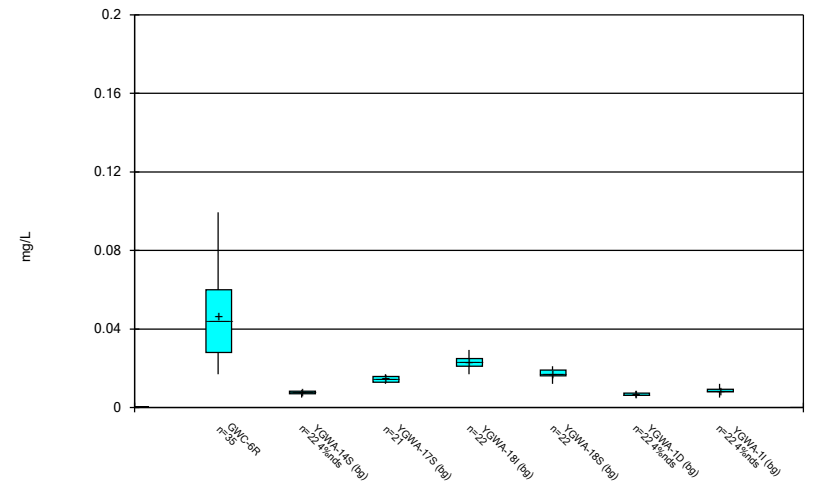
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



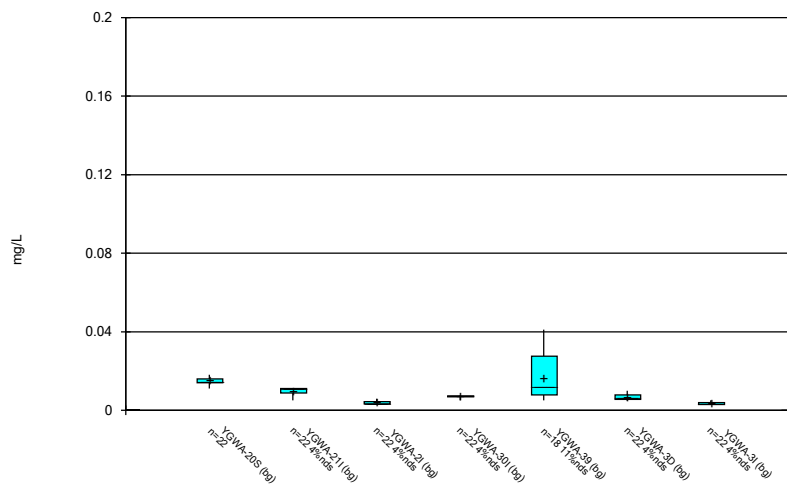
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



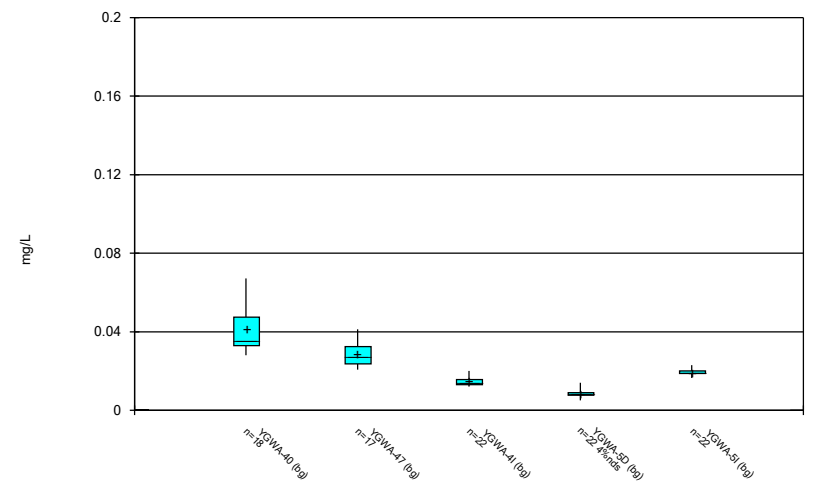
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



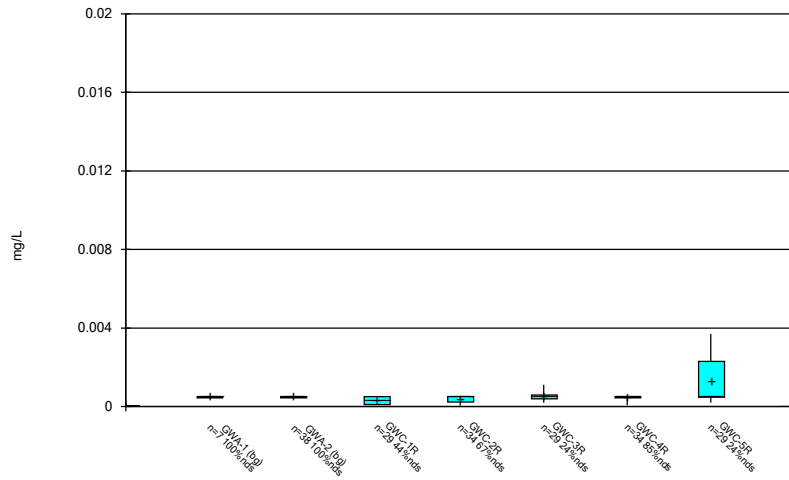
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



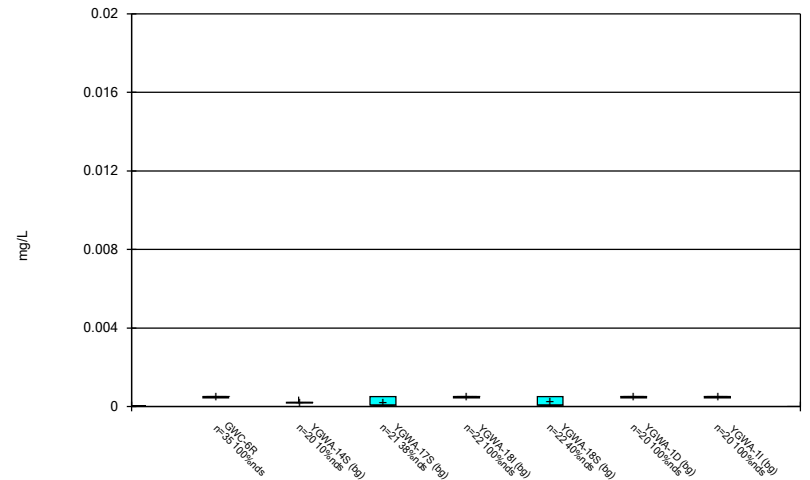
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



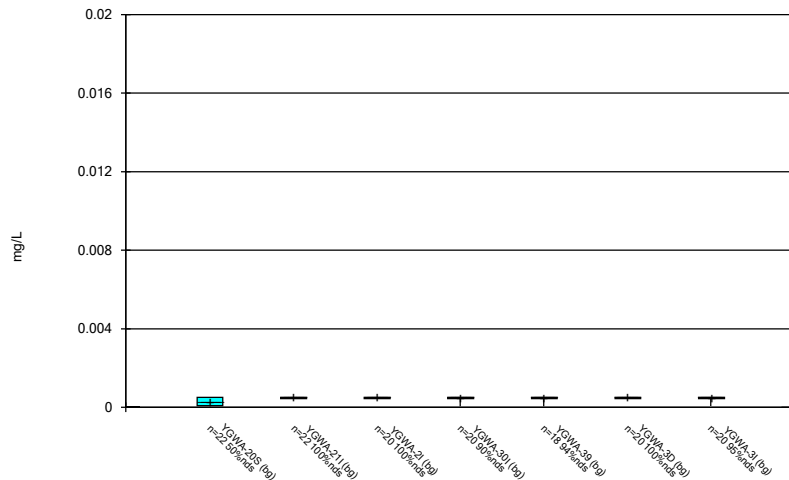
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



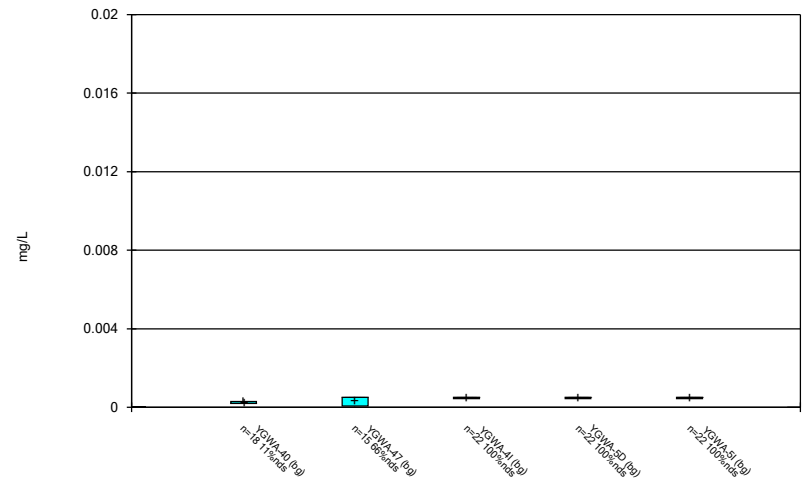
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



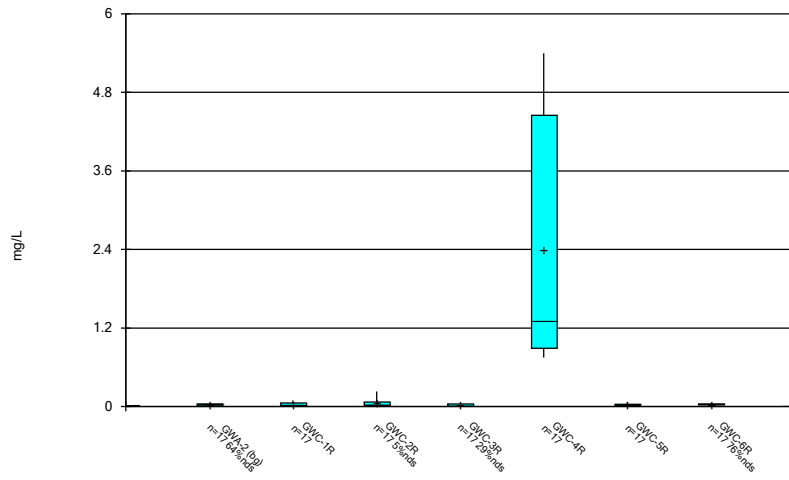
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



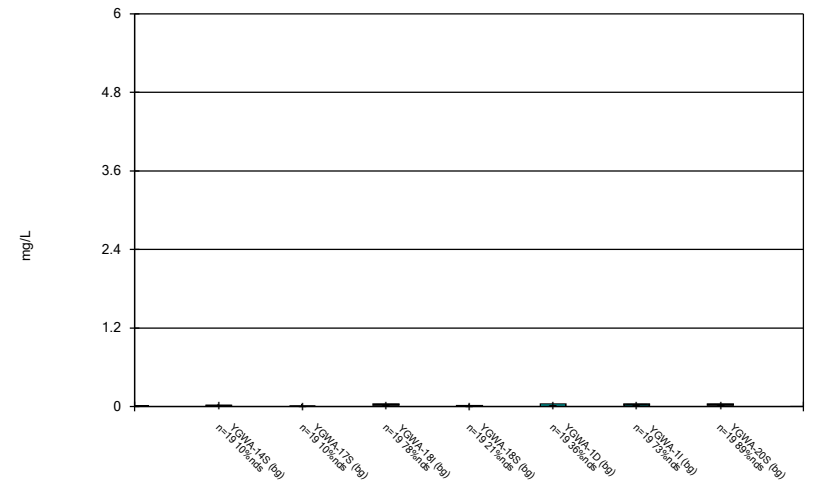
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



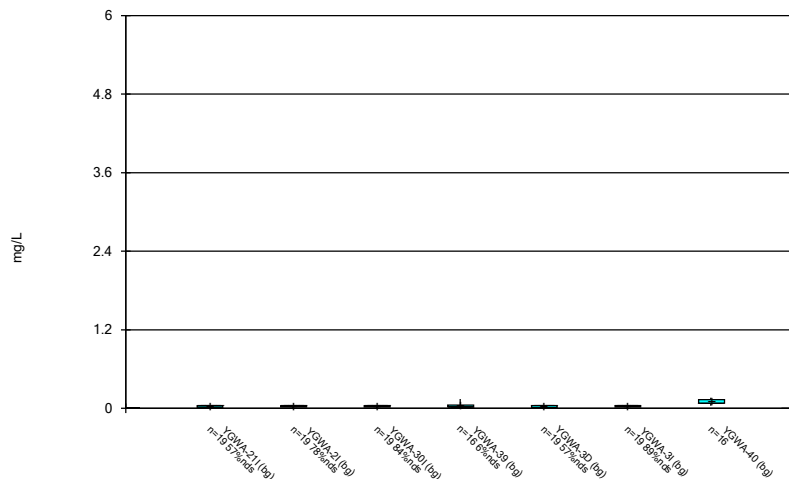
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



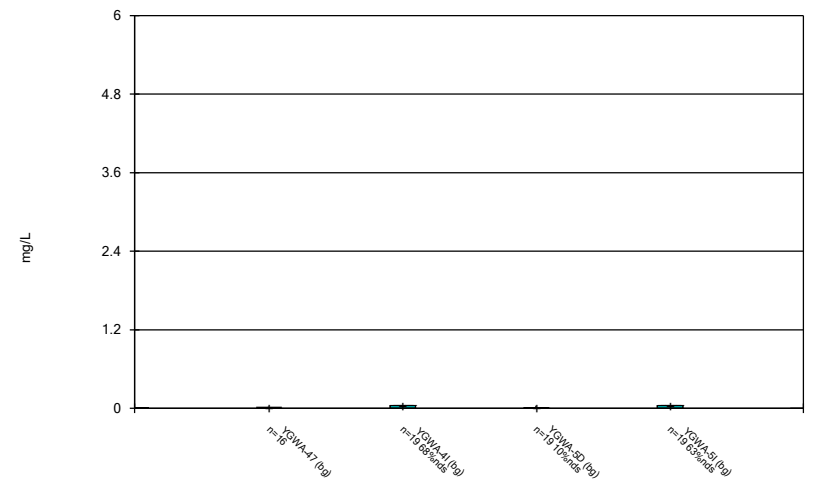
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Box & Whiskers Plot



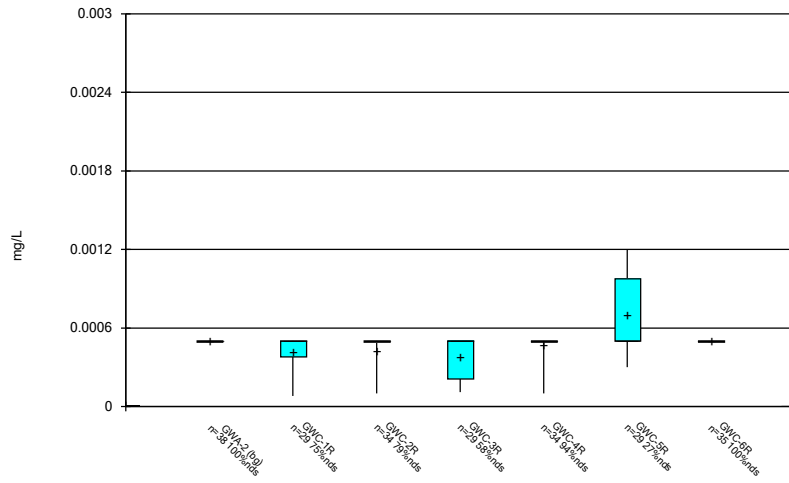
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



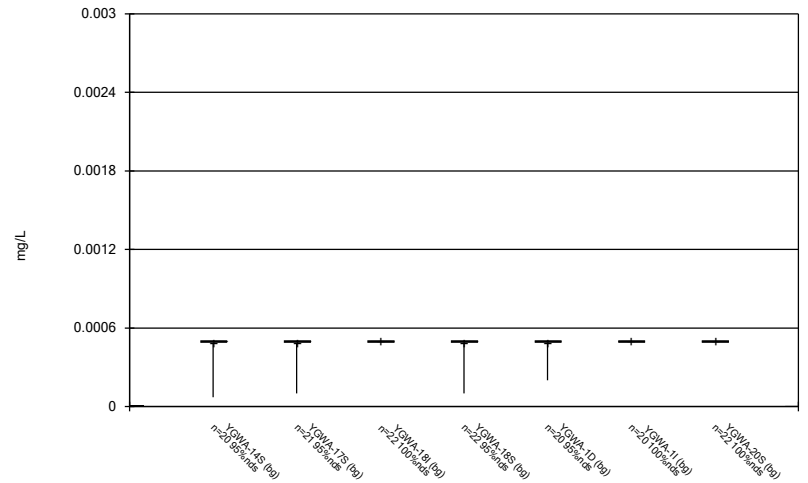
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Box & Whiskers Plot



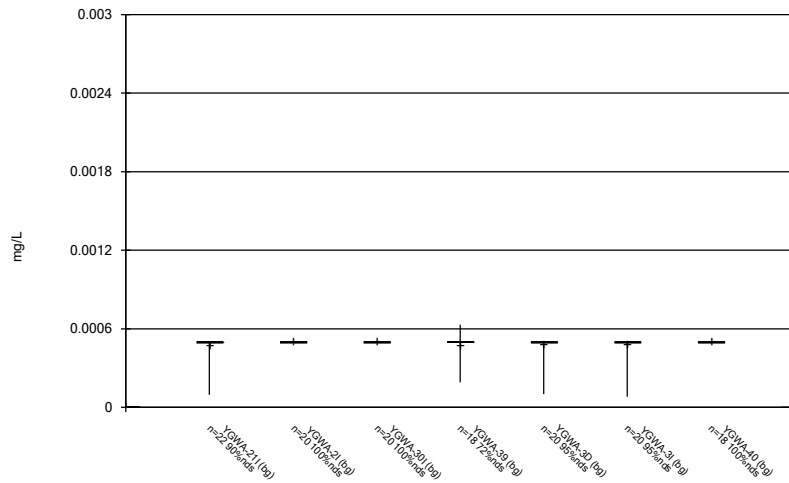
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



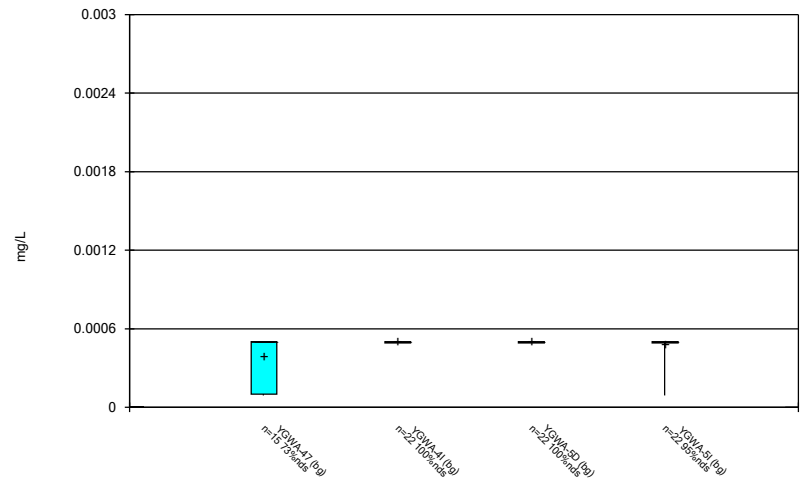
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Box & Whiskers Plot



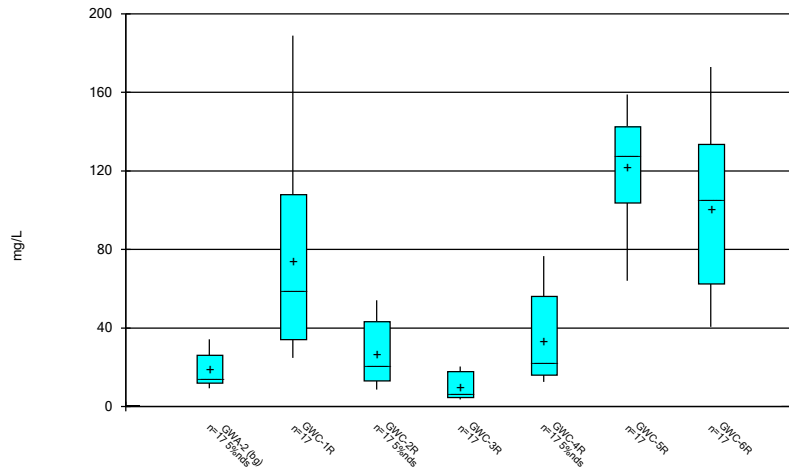
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Box & Whiskers Plot



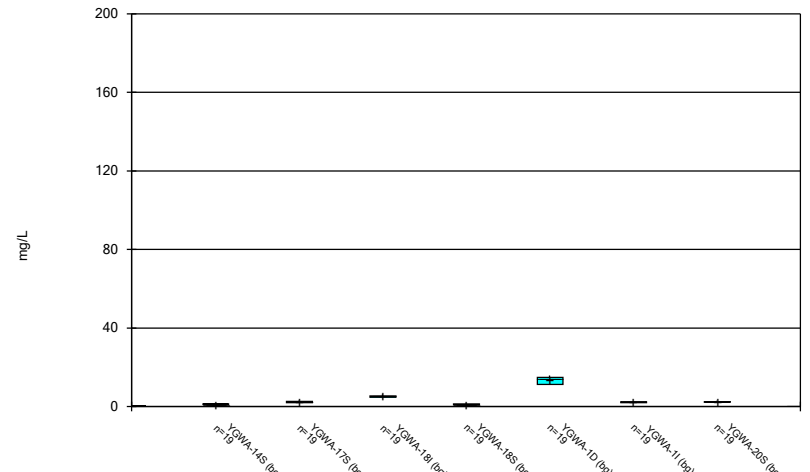
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Box & Whiskers Plot



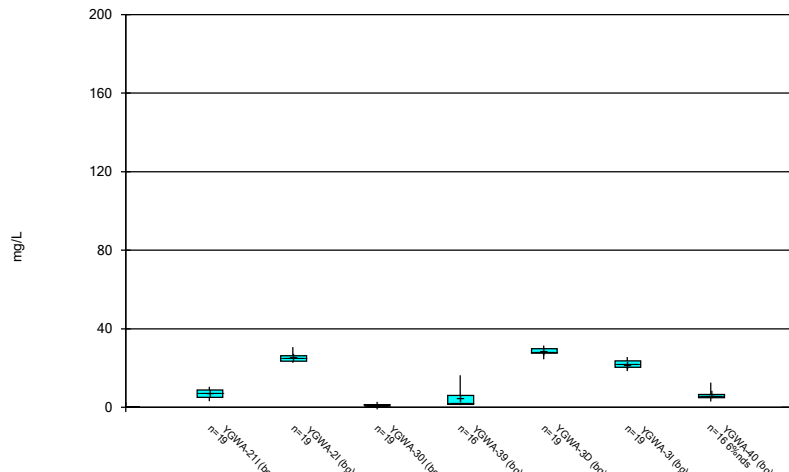
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



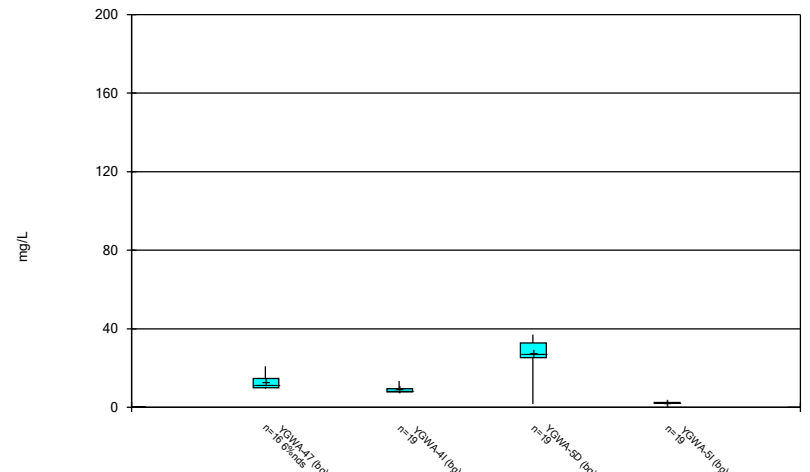
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Box & Whiskers Plot



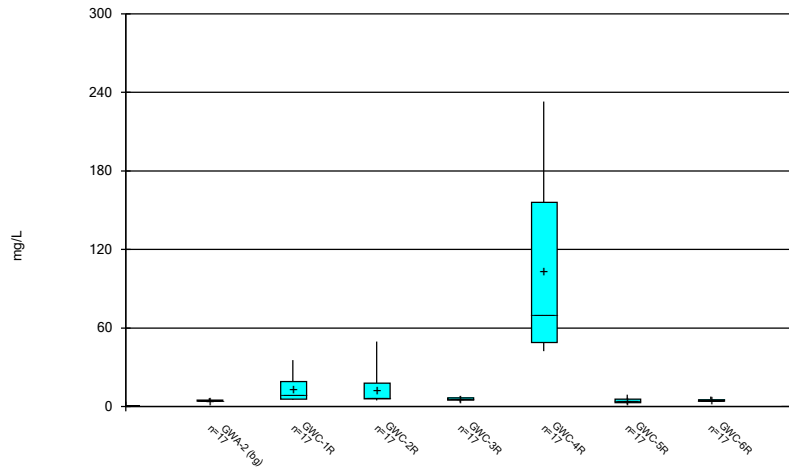
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Box & Whiskers Plot



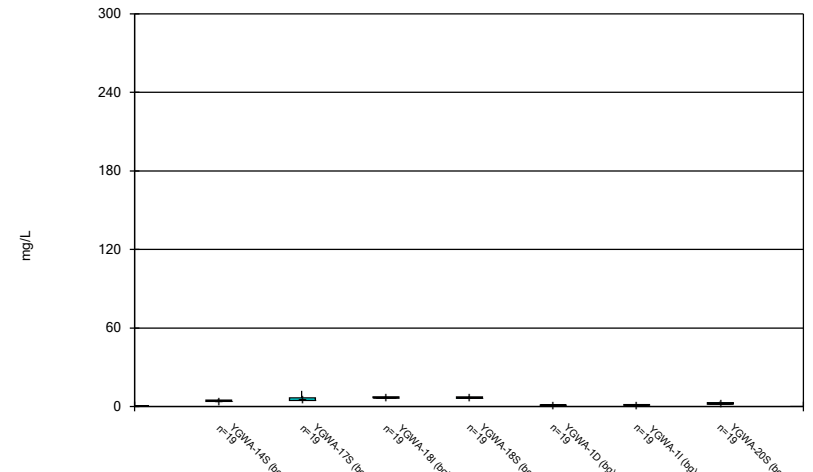
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Box & Whiskers Plot



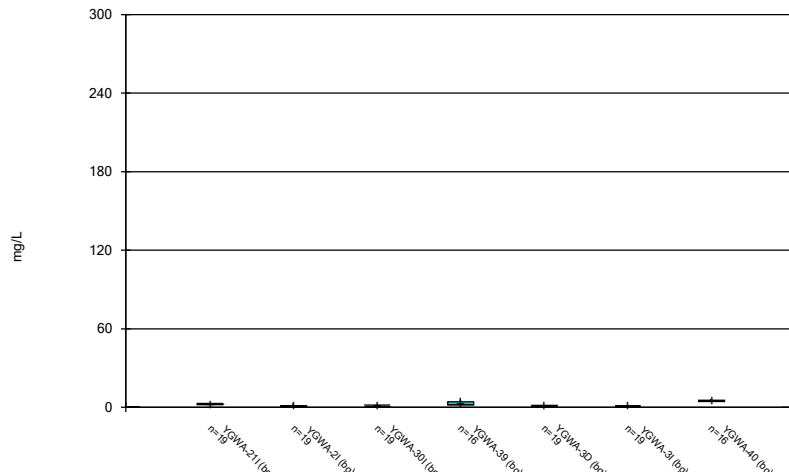
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



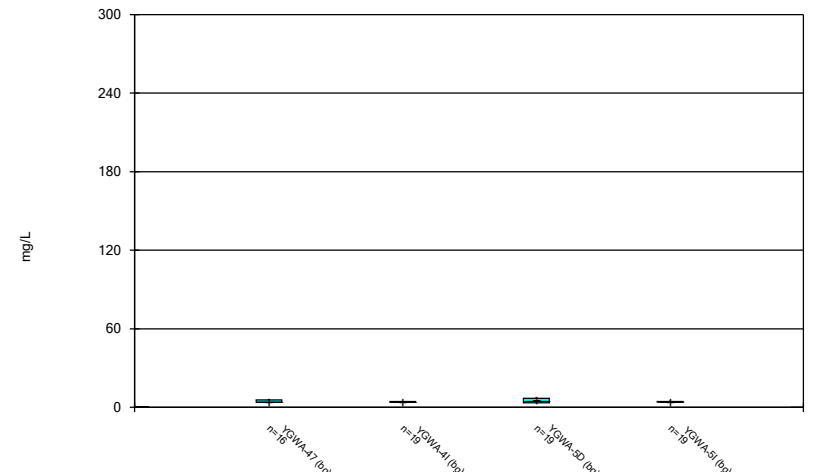
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



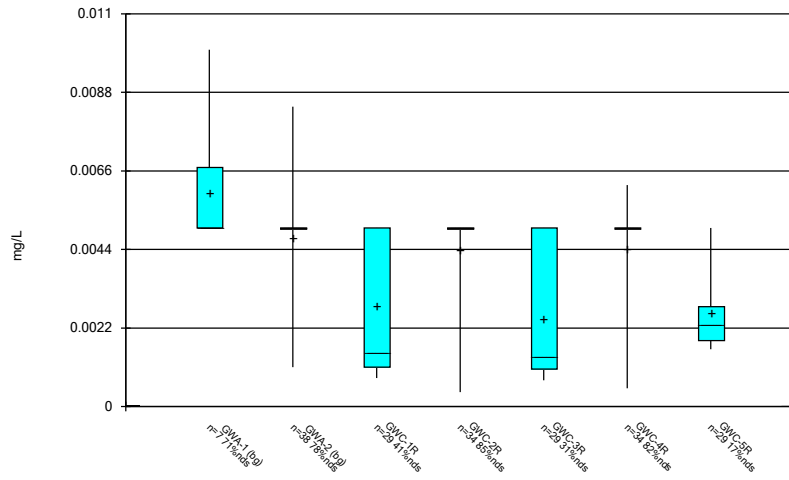
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Box & Whiskers Plot



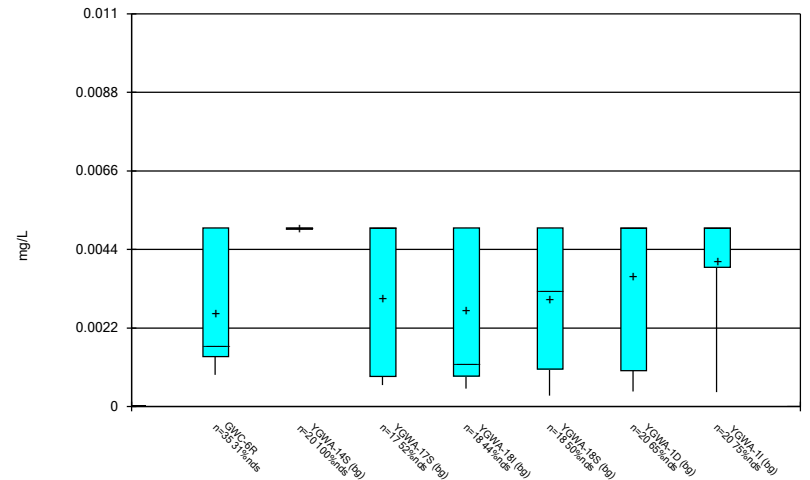
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Box & Whiskers Plot



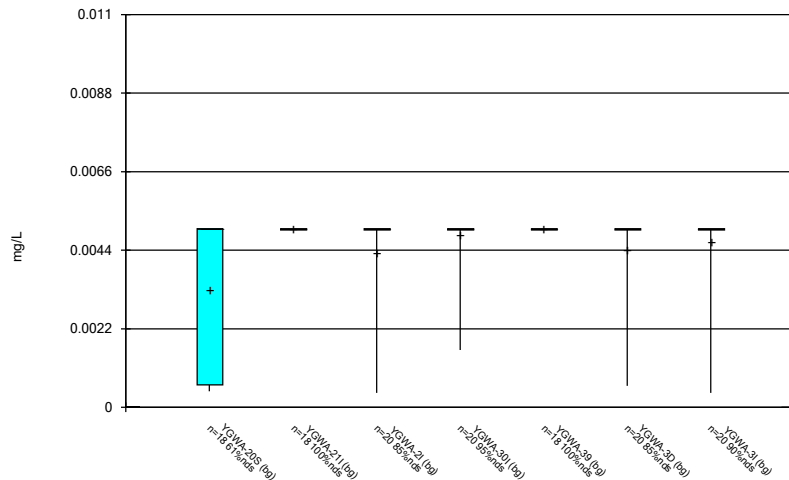
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



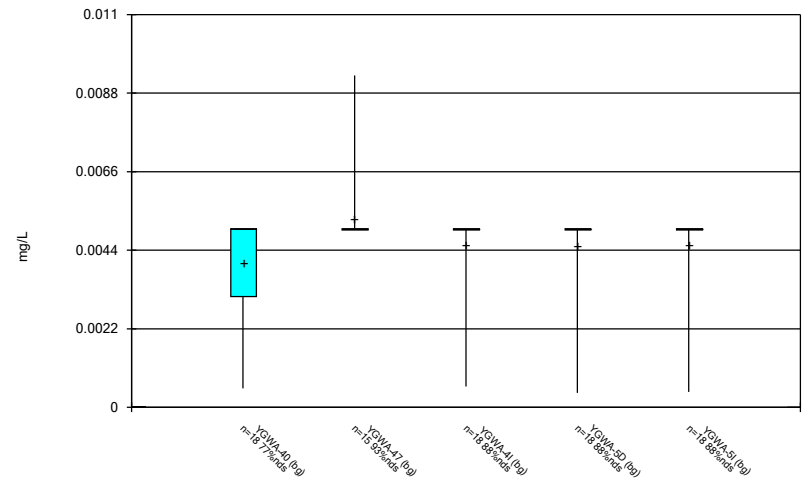
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Box & Whiskers Plot



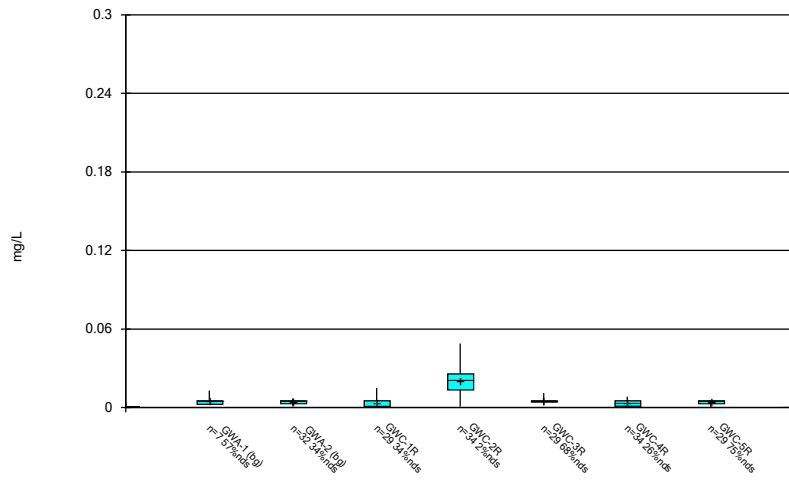
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Box & Whiskers Plot



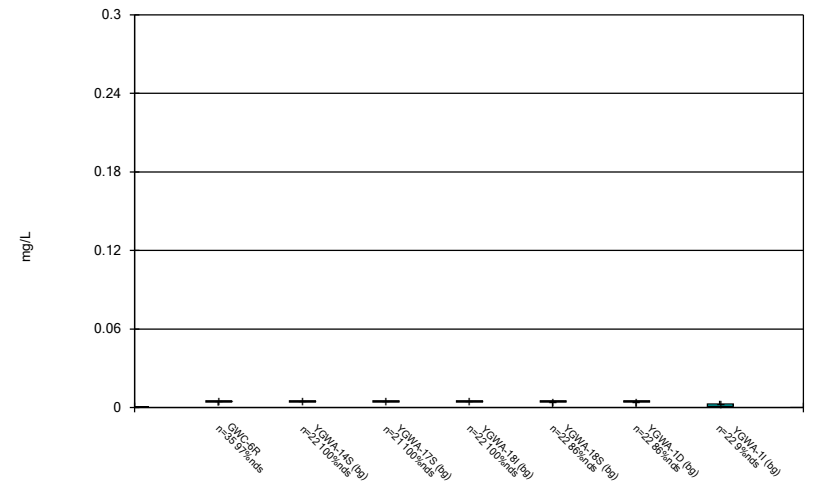
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Box & Whiskers Plot



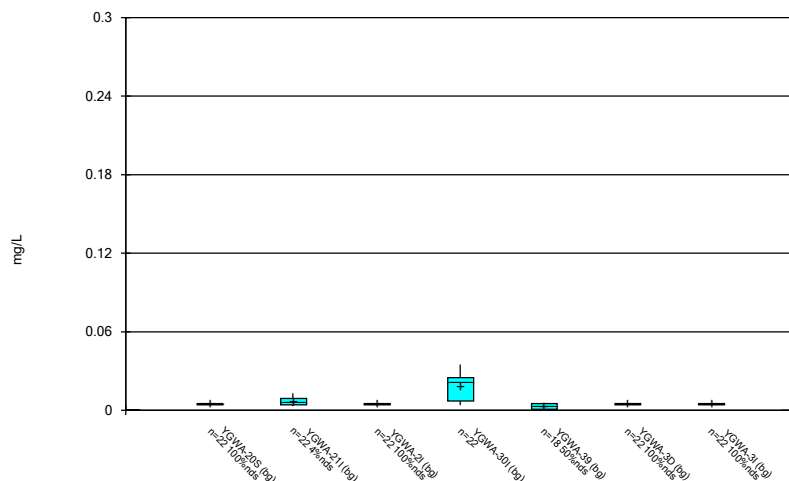
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



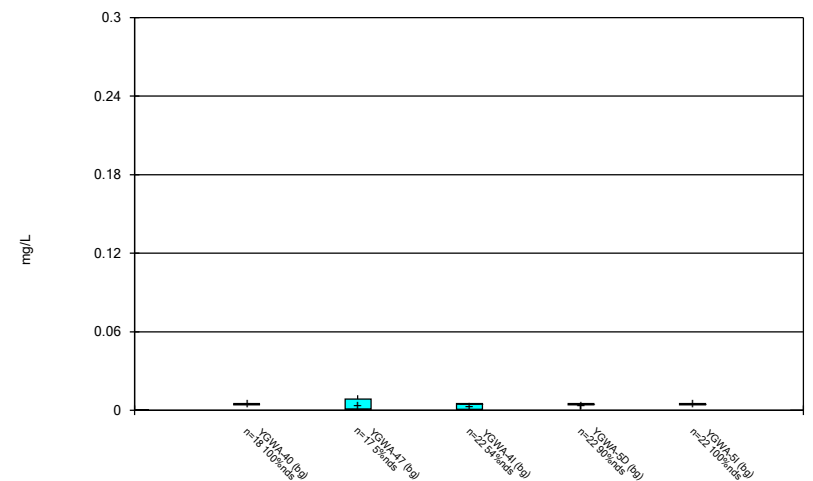
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Box & Whiskers Plot



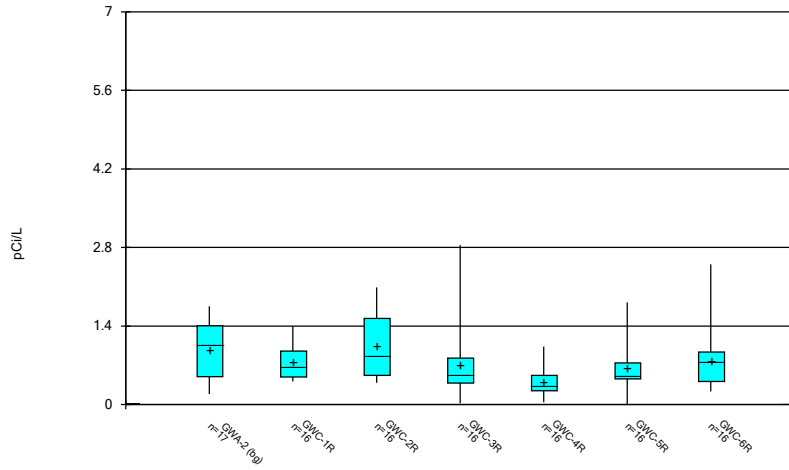
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Box & Whiskers Plot



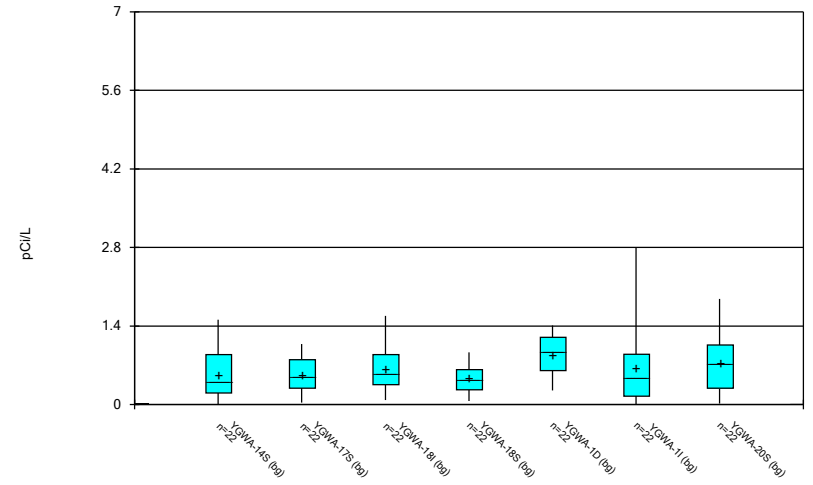
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



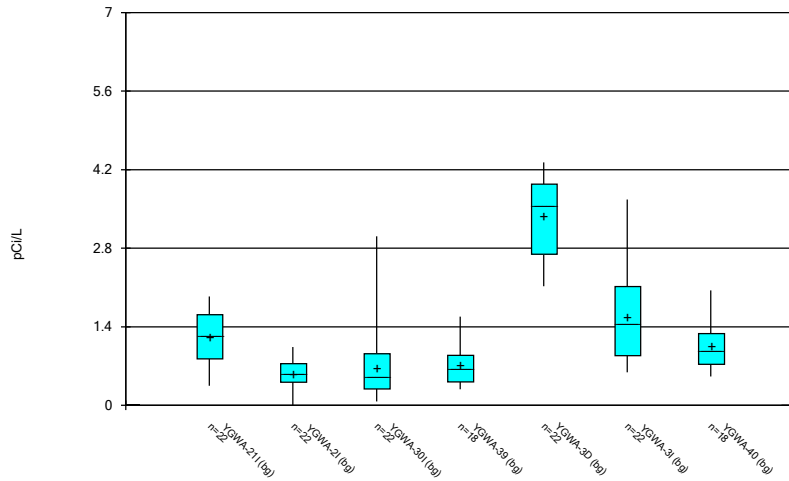
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



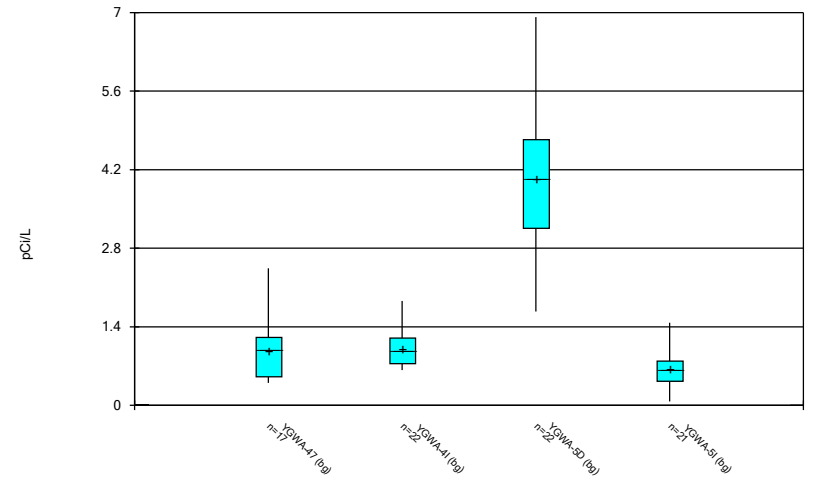
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



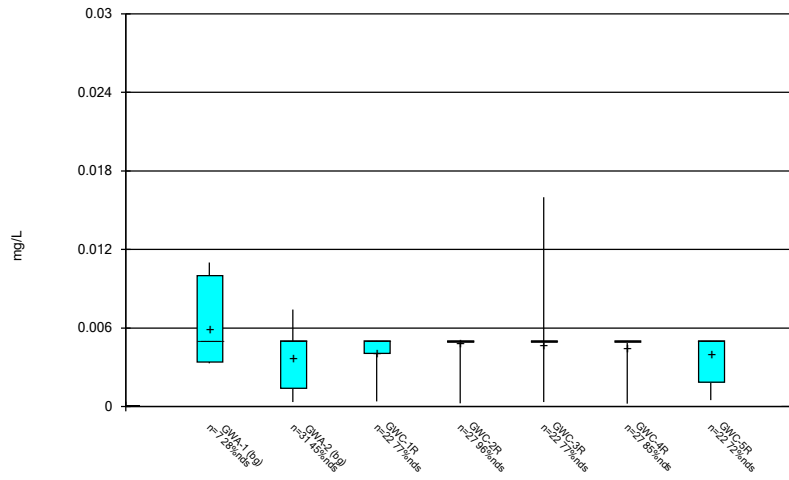
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



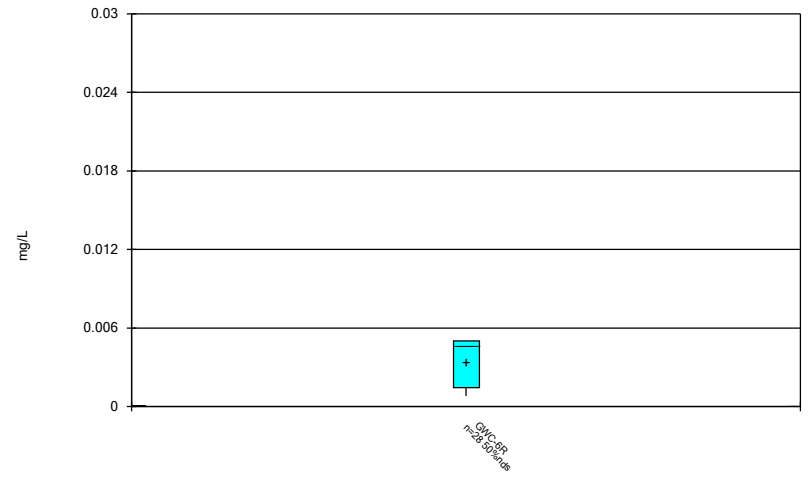
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



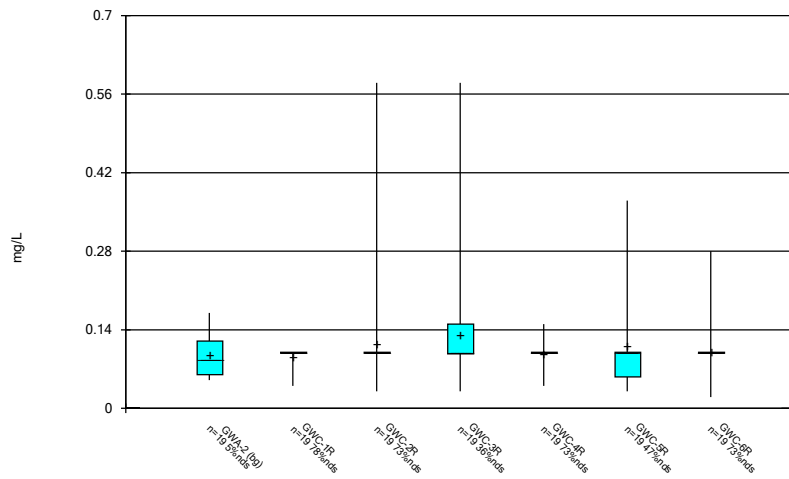
Constituent: Copper Analysis Run 10/21/2022 3:09 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



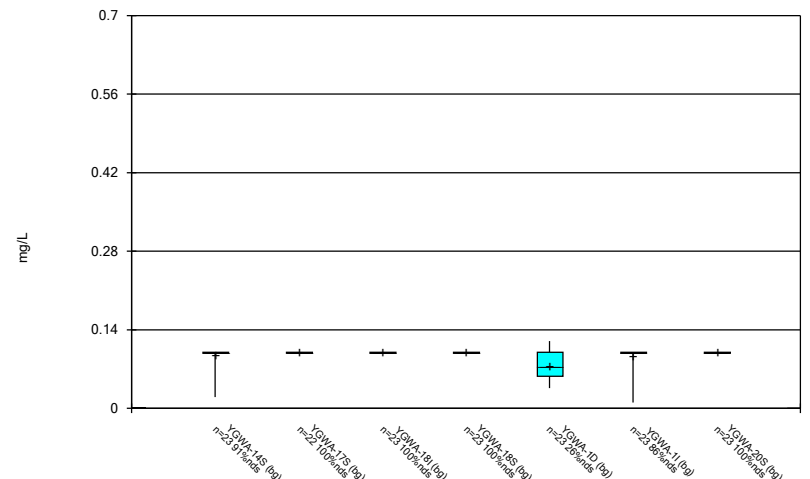
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



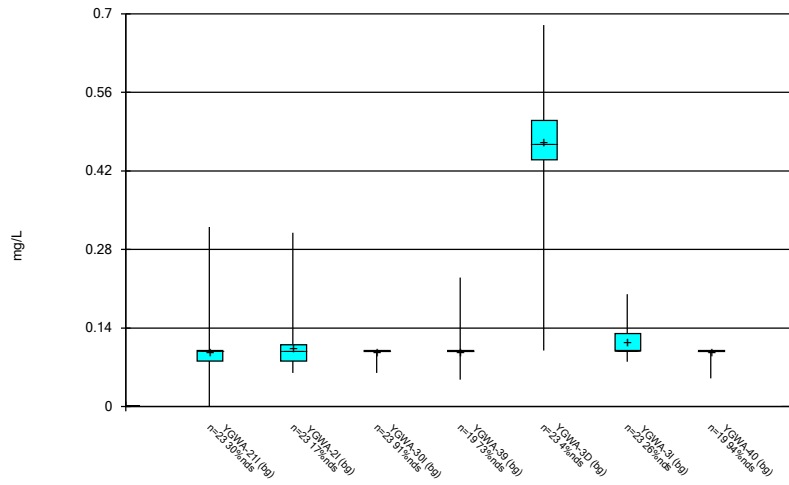
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



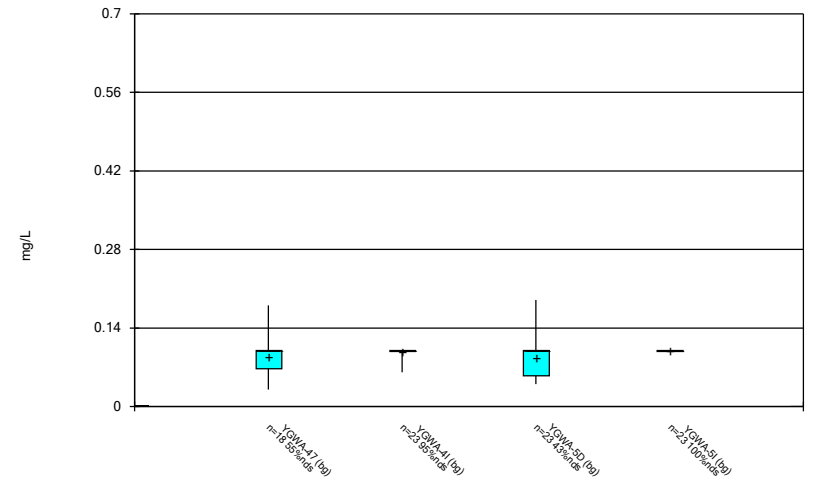
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



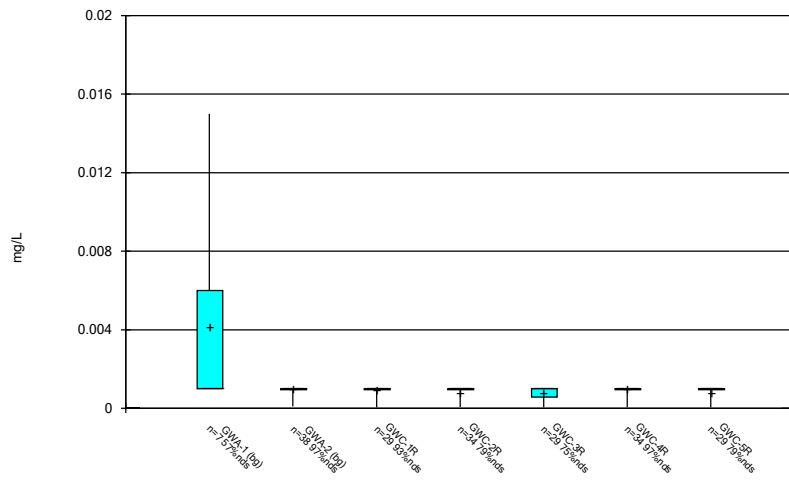
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



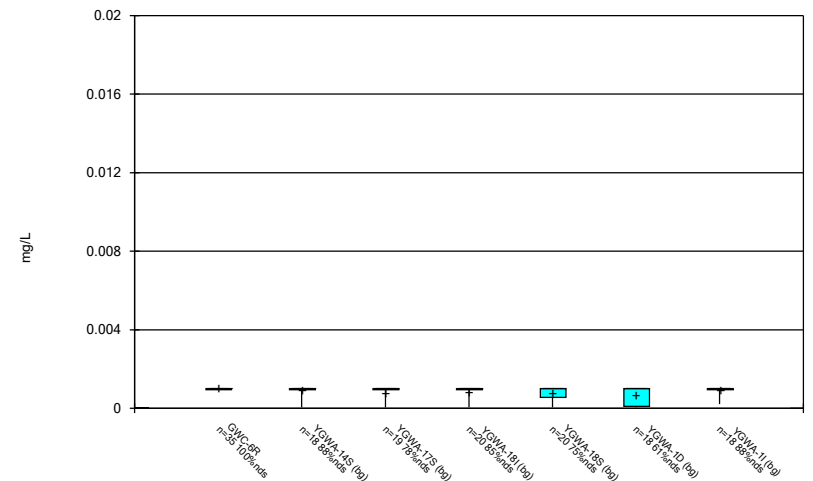
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



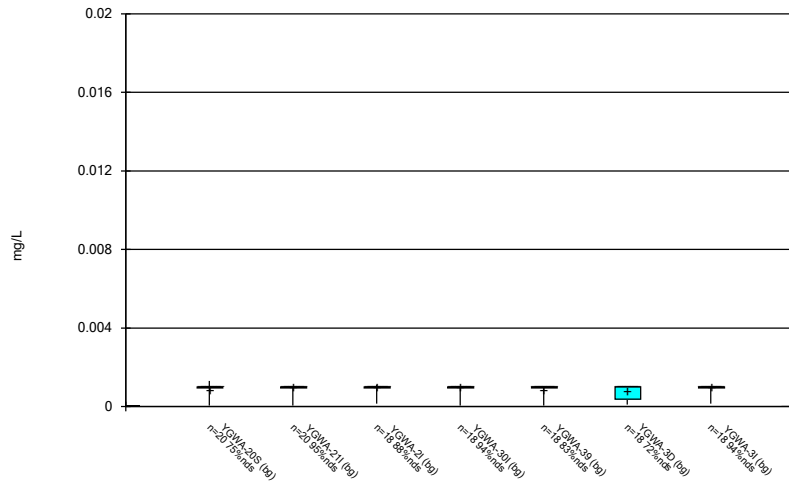
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



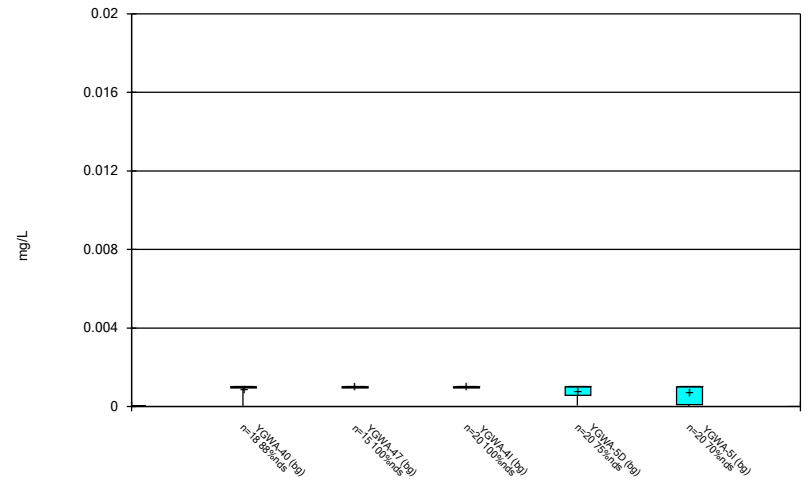
Constituent: Lead Analysis Run 10/21/2022 3:09 PM View: Constituents View
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



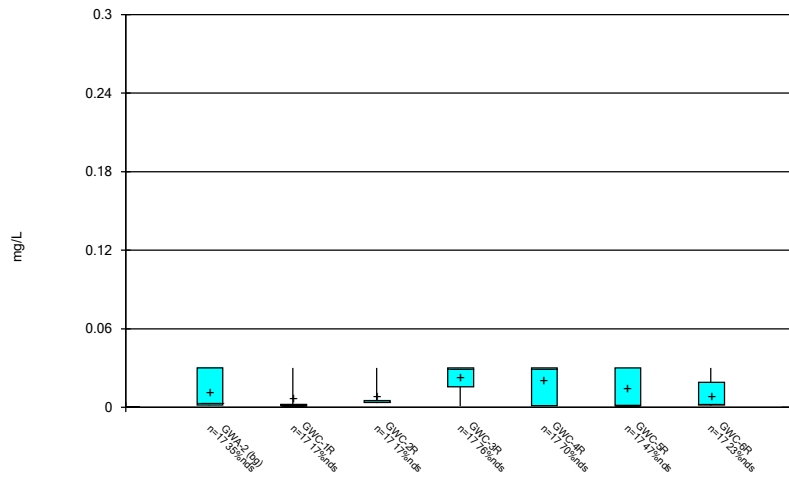
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



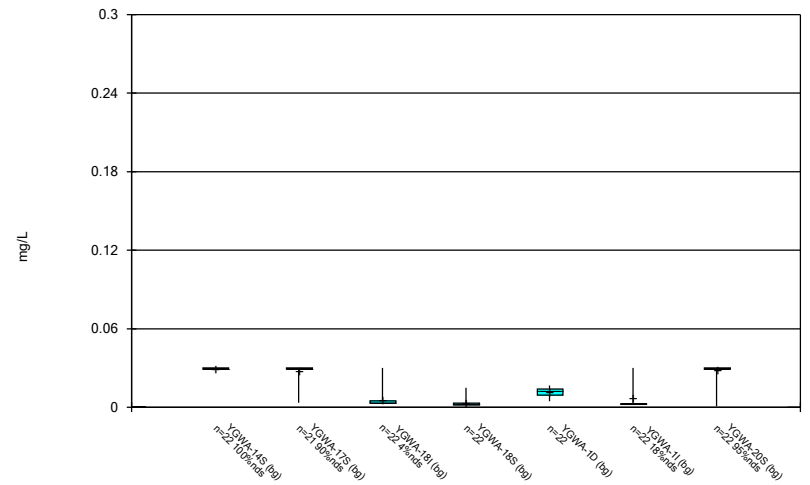
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



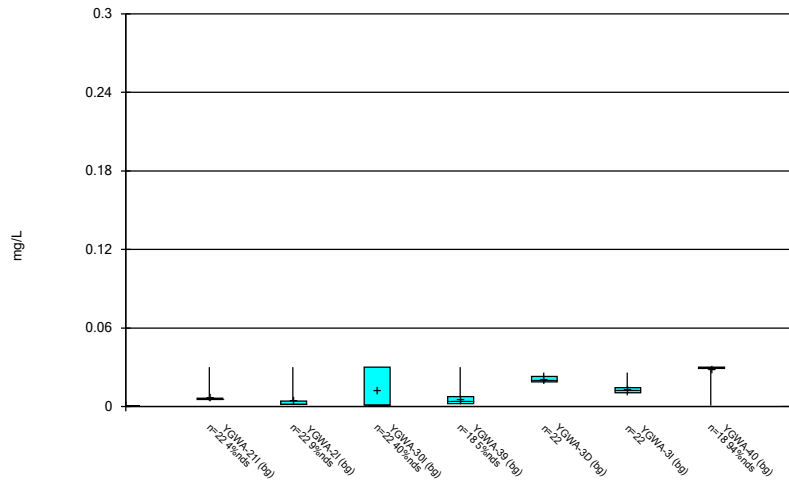
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Box & Whiskers Plot



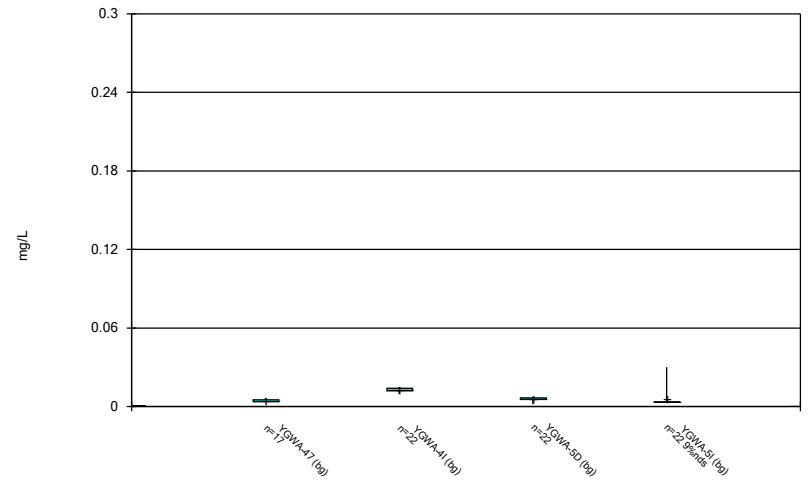
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



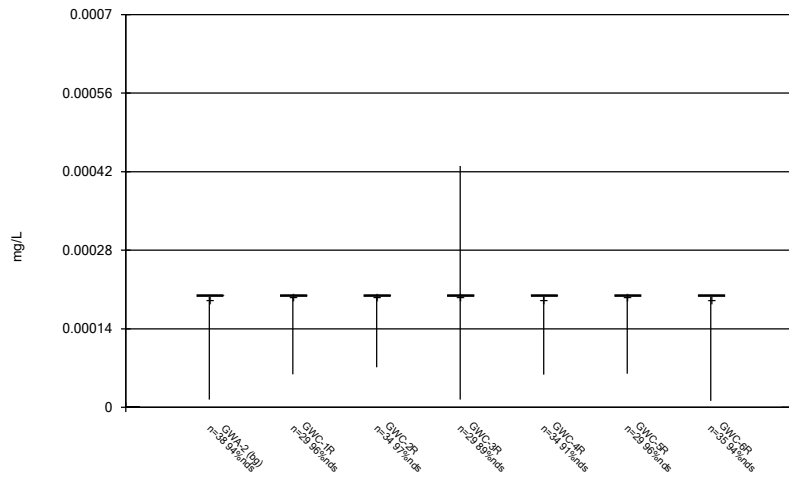
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



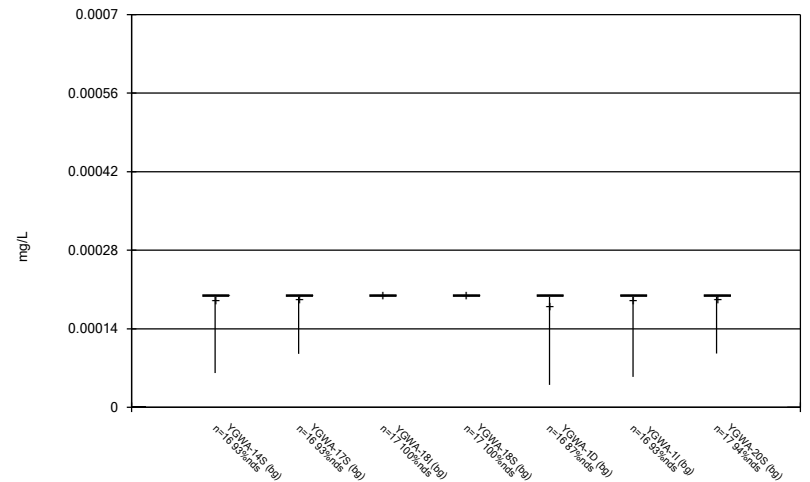
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



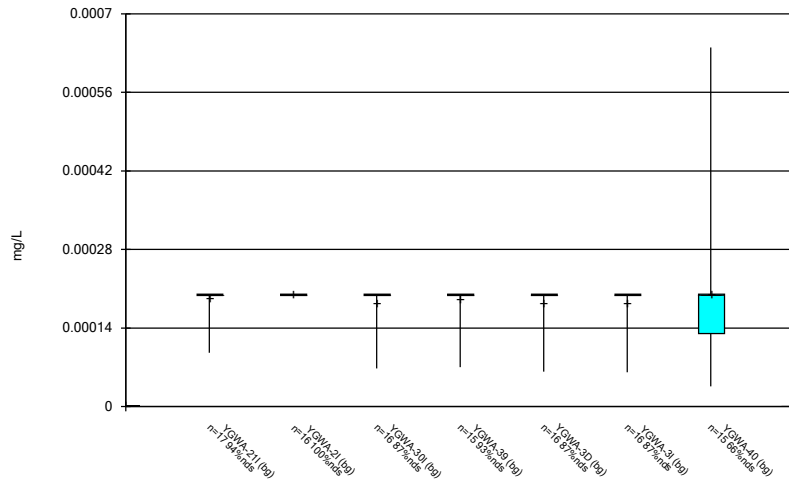
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



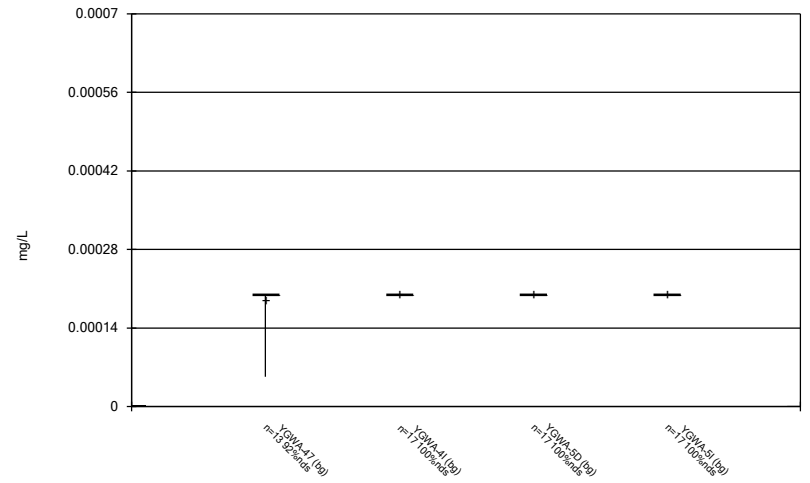
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



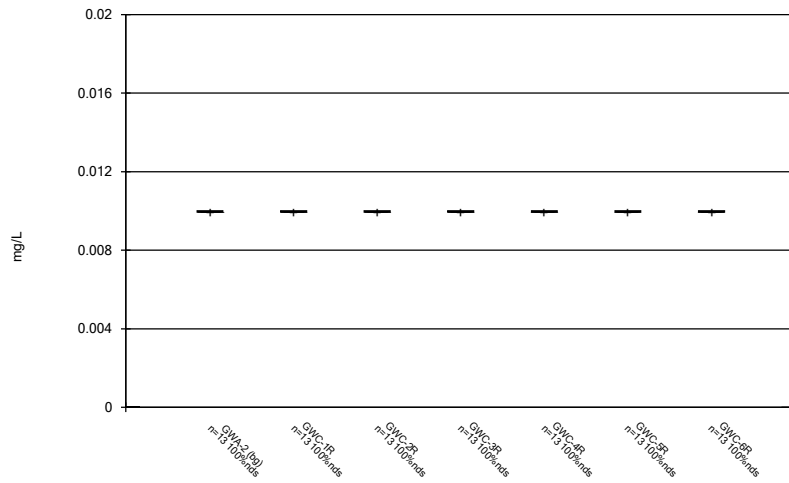
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Box & Whiskers Plot



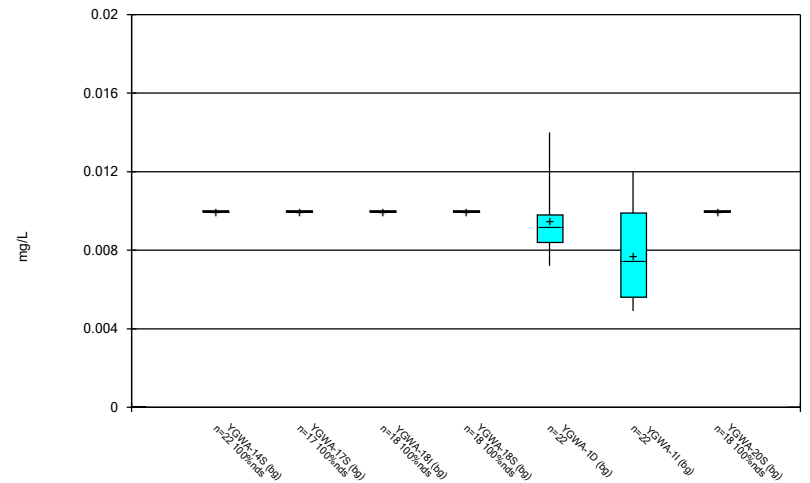
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Box & Whiskers Plot



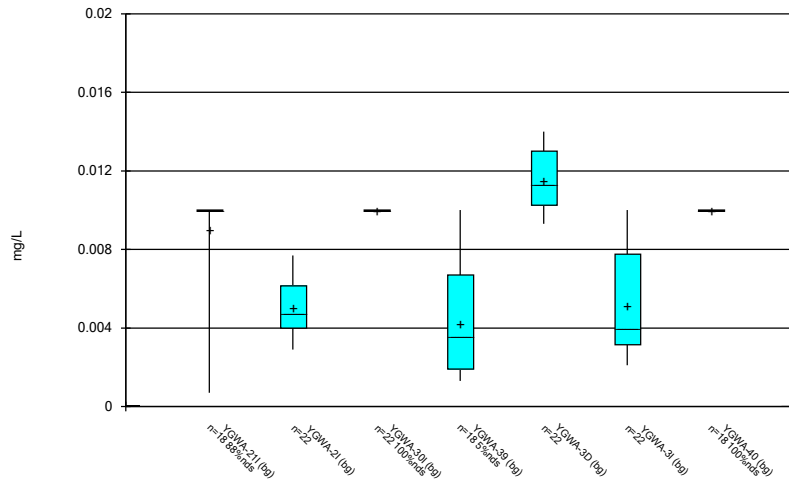
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Box & Whiskers Plot



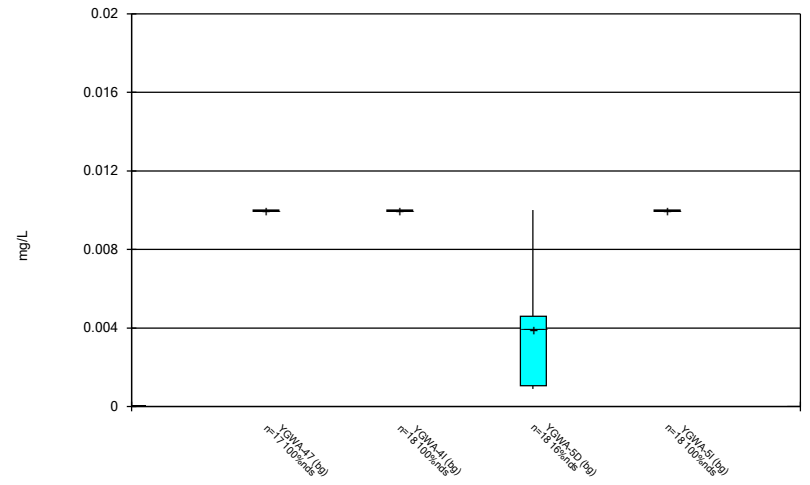
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Box & Whiskers Plot



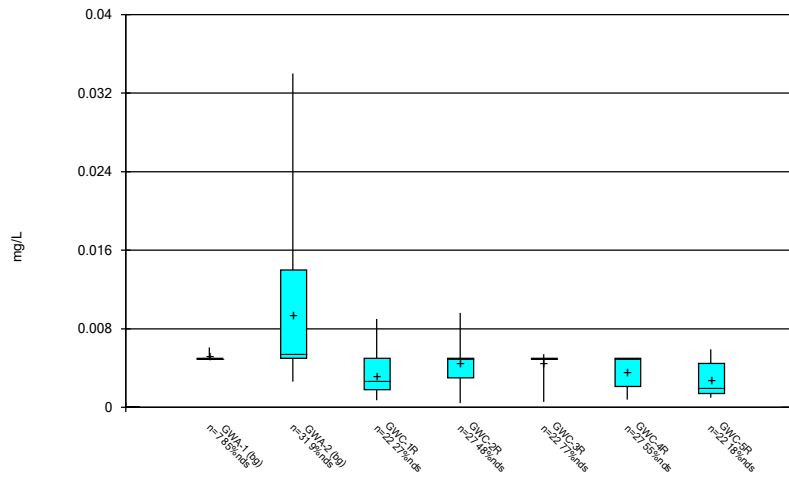
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Box & Whiskers Plot



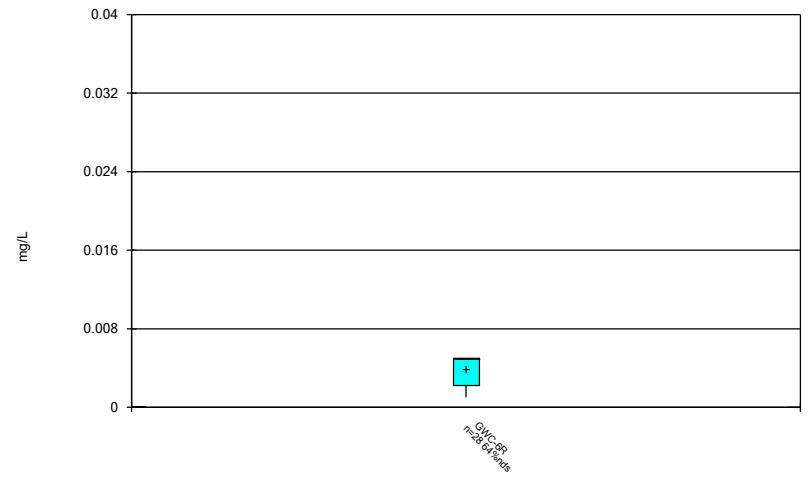
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Box & Whiskers Plot



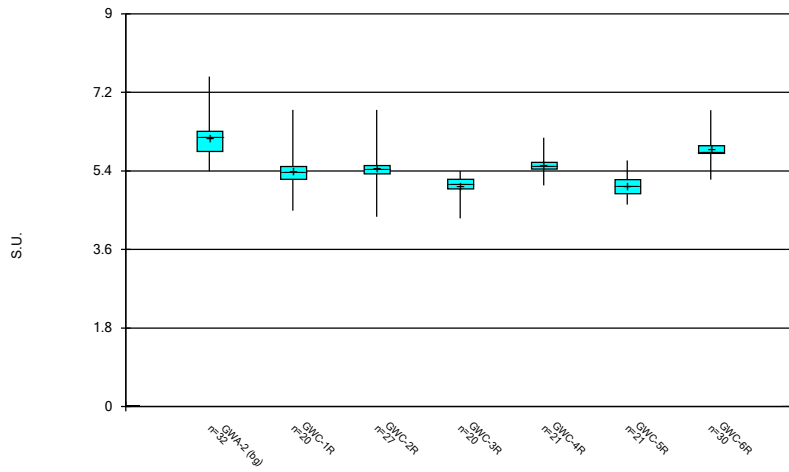
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Box & Whiskers Plot



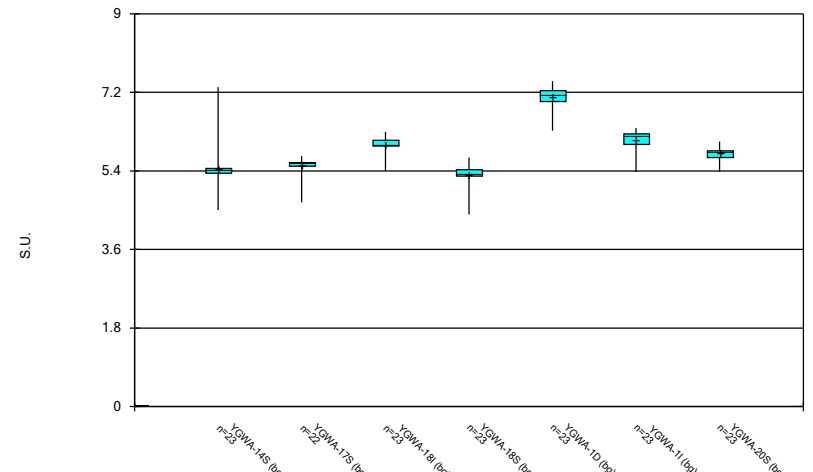
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Box & Whiskers Plot



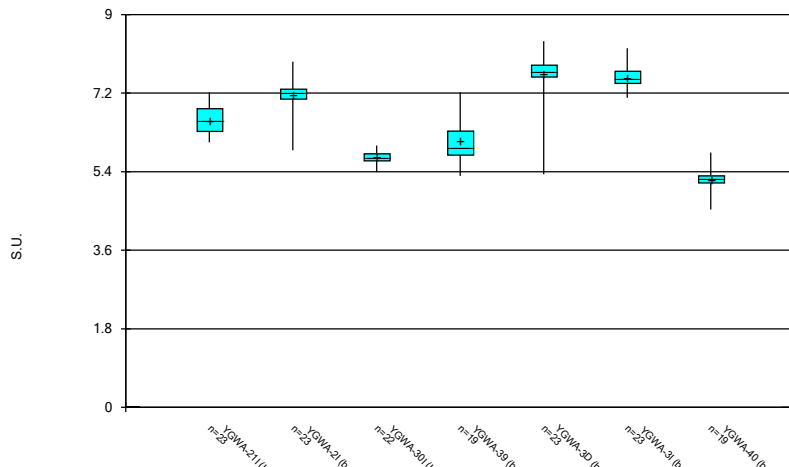
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



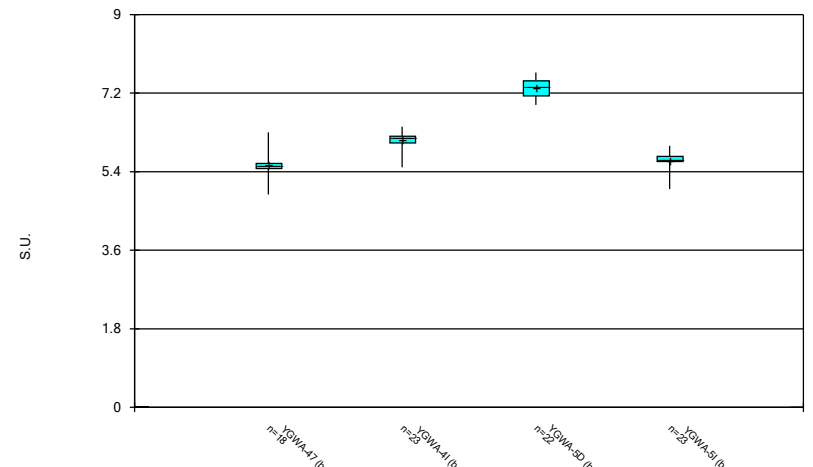
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



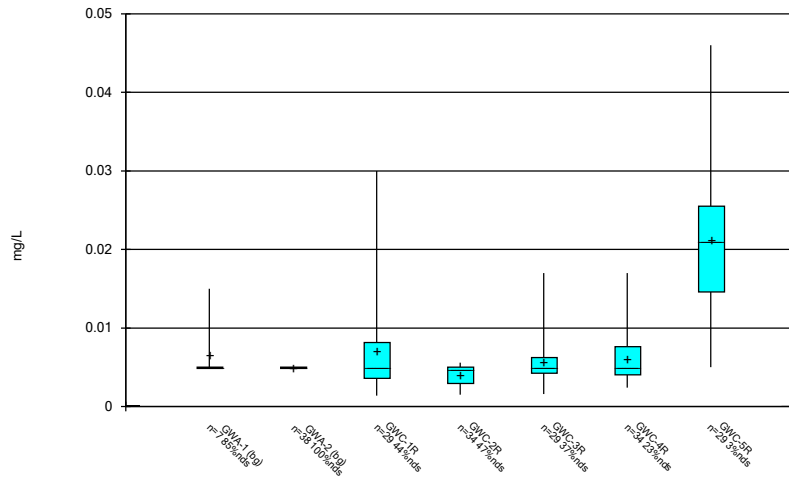
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Box & Whiskers Plot



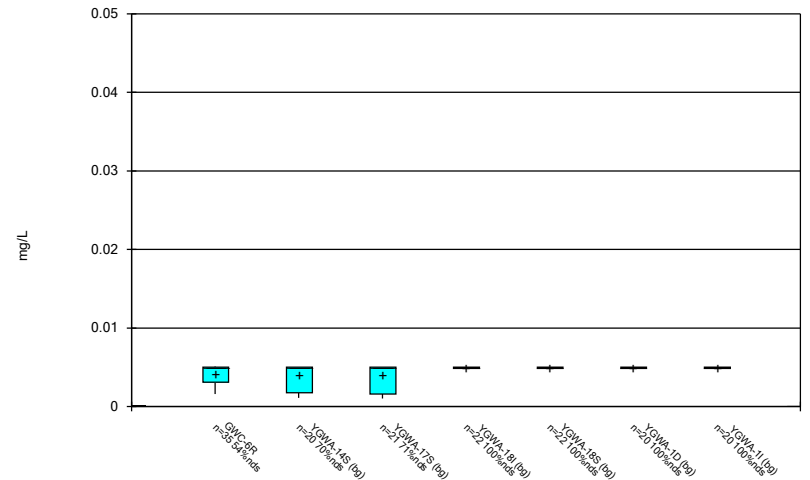
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Box & Whiskers Plot



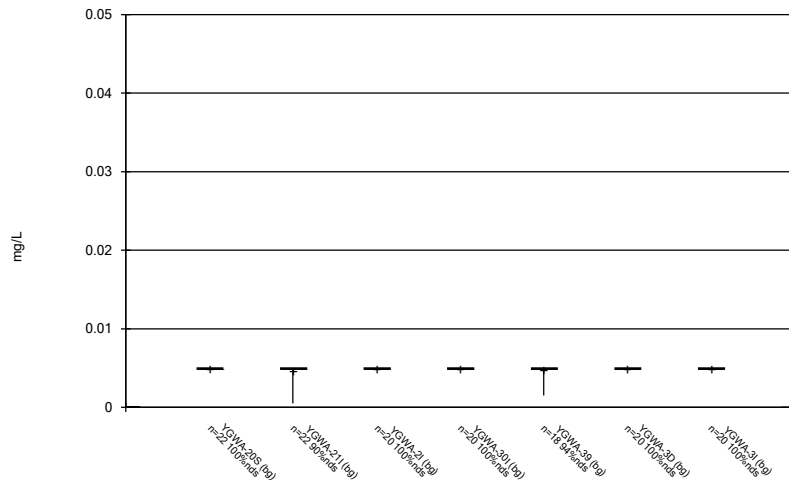
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Box & Whiskers Plot



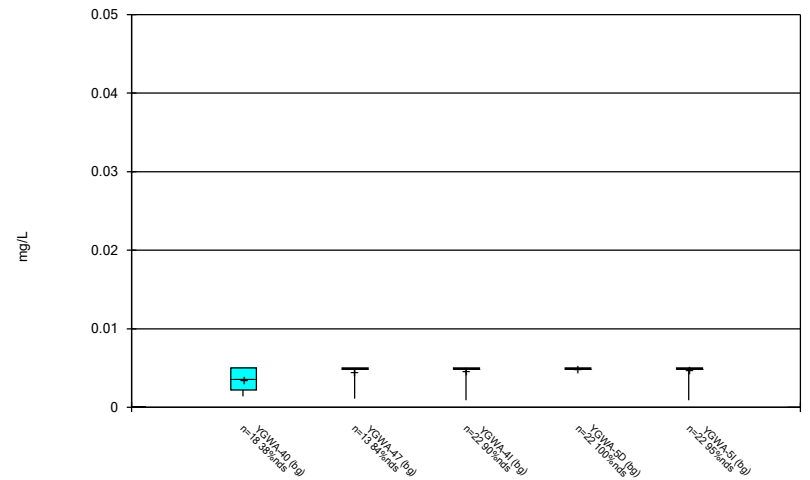
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Box & Whiskers Plot



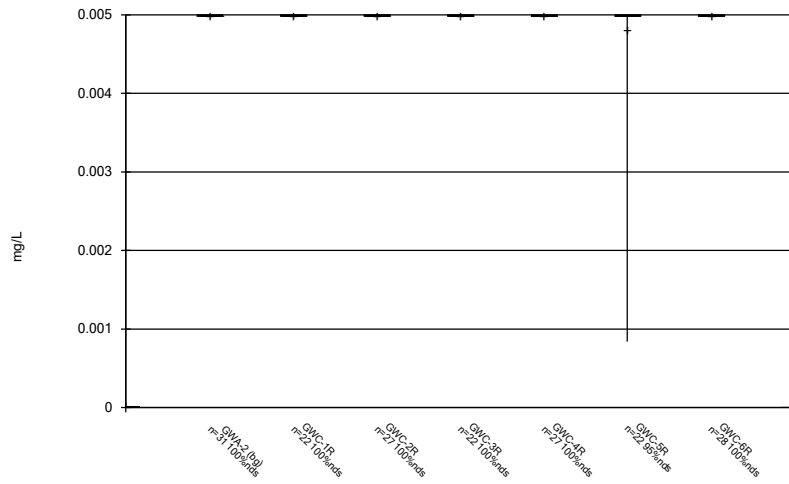
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Box & Whiskers Plot



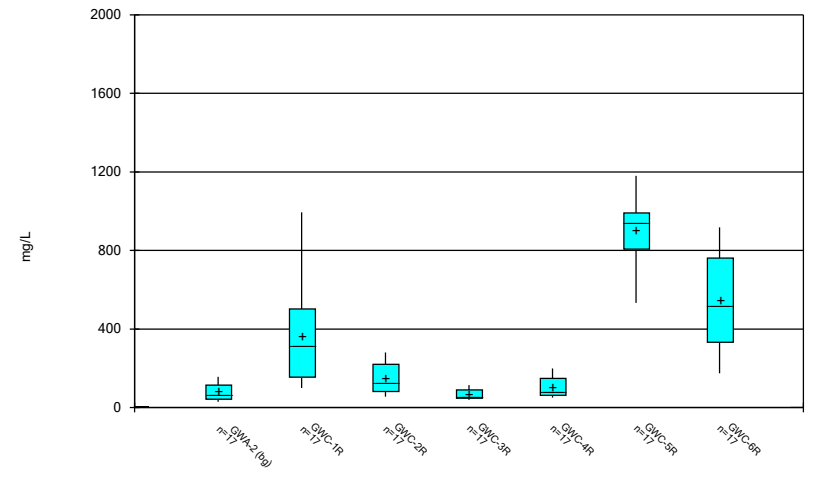
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



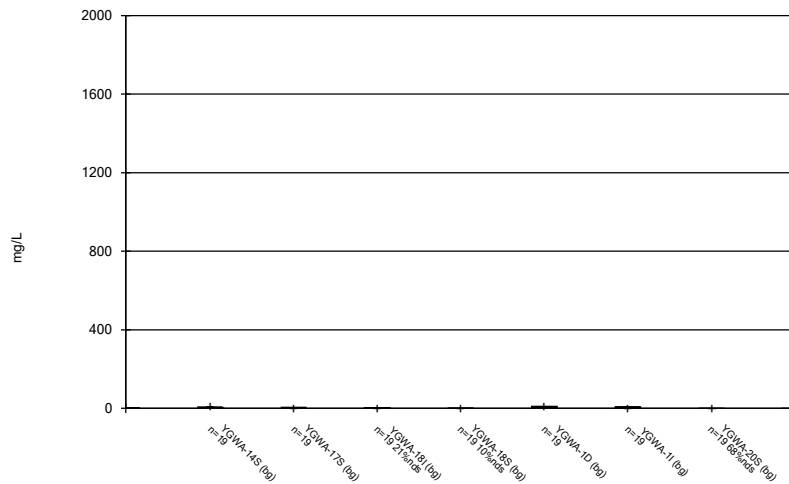
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



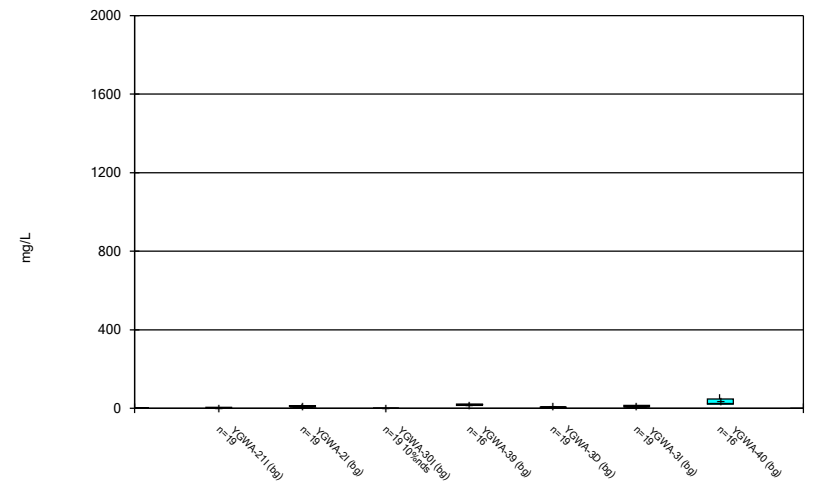
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Box & Whiskers Plot



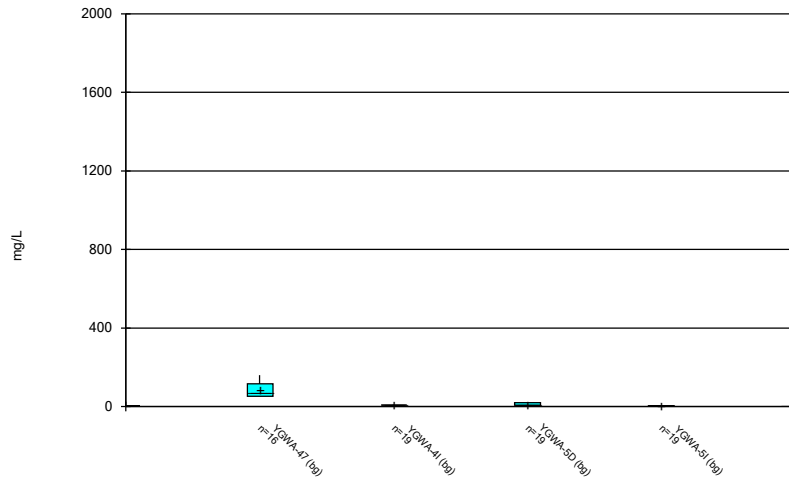
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Box & Whiskers Plot



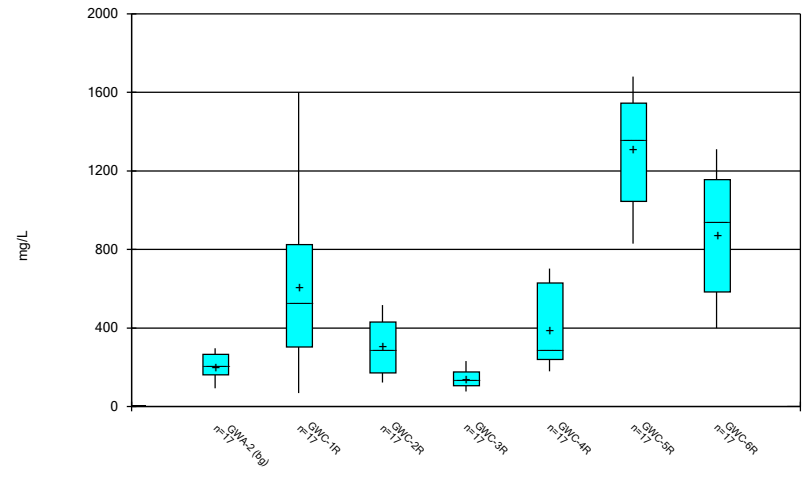
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Box & Whiskers Plot



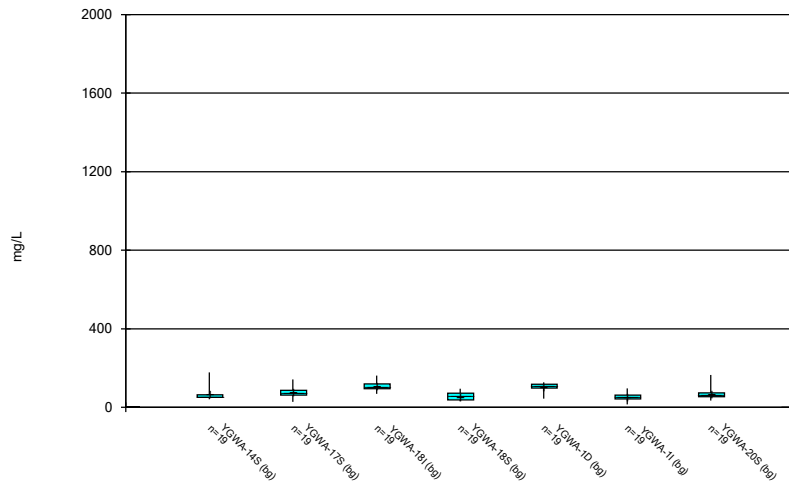
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Box & Whiskers Plot



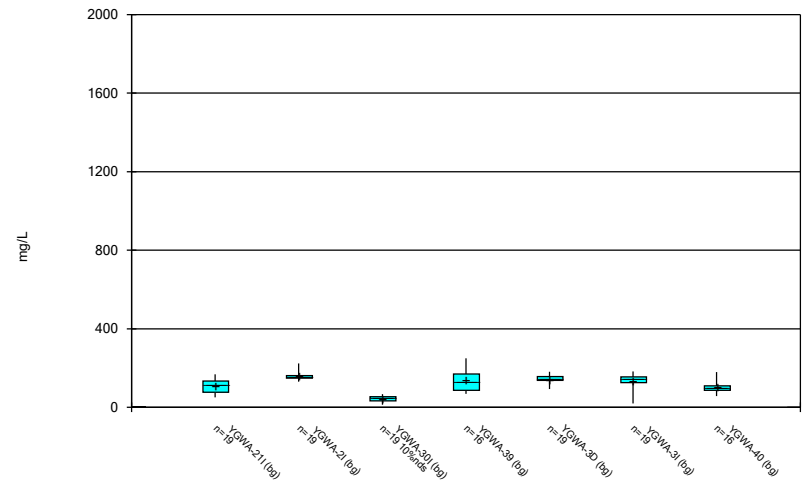
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Box & Whiskers Plot



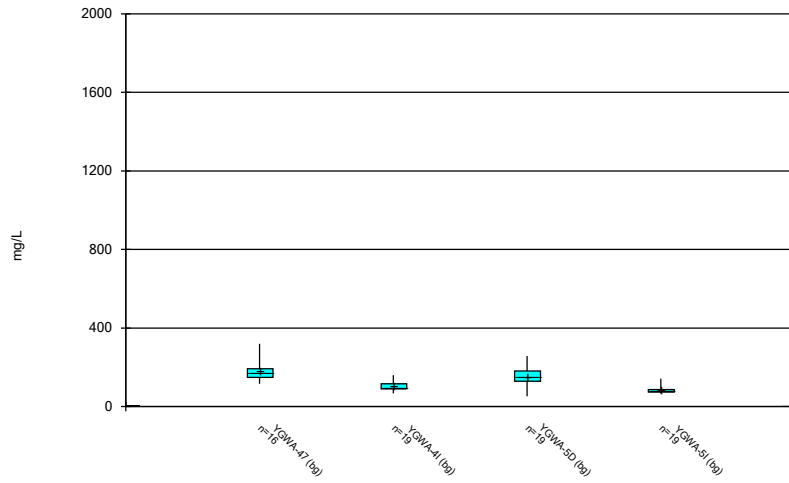
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



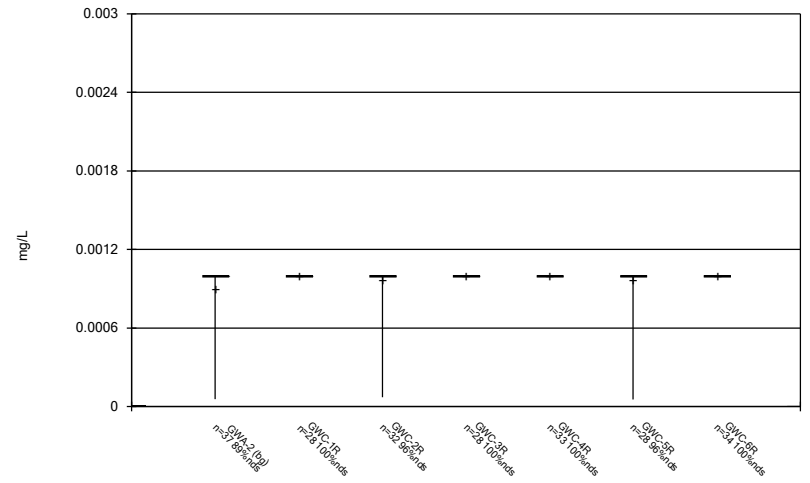
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



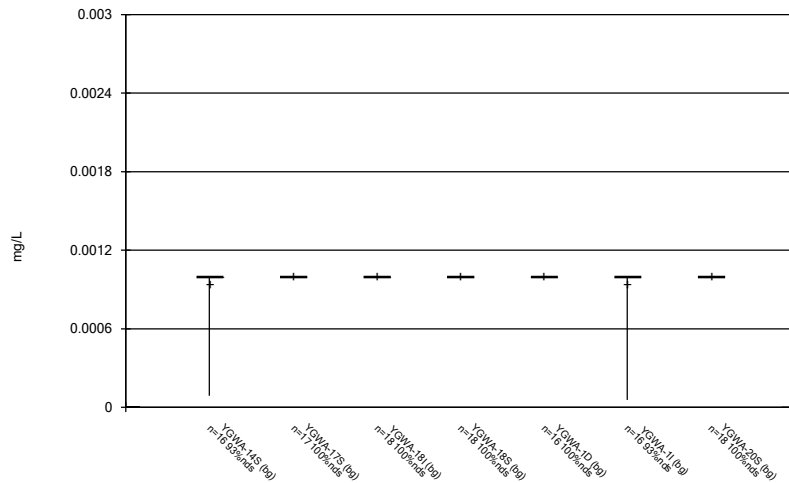
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



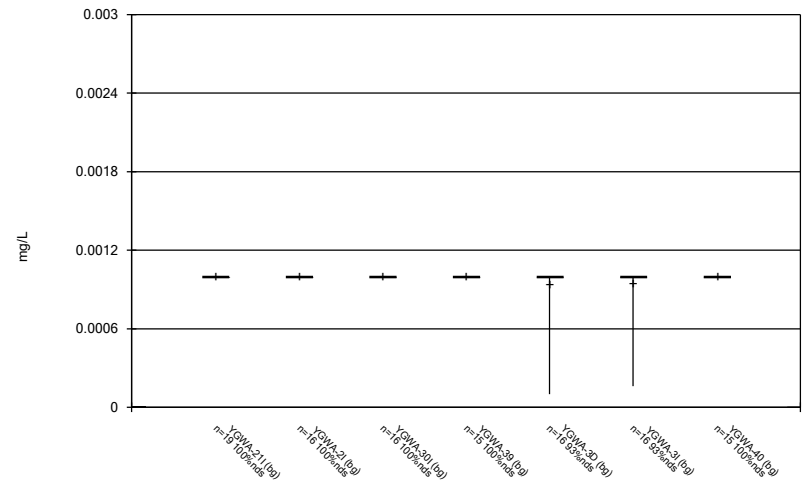
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Box & Whiskers Plot



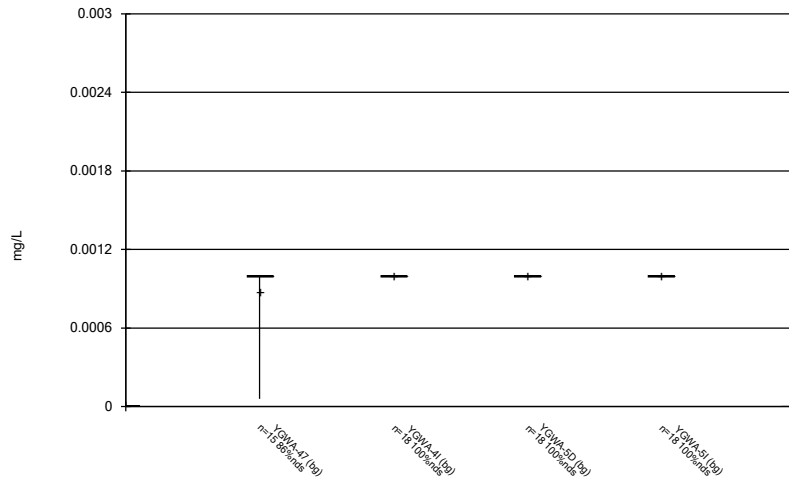
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Box & Whiskers Plot



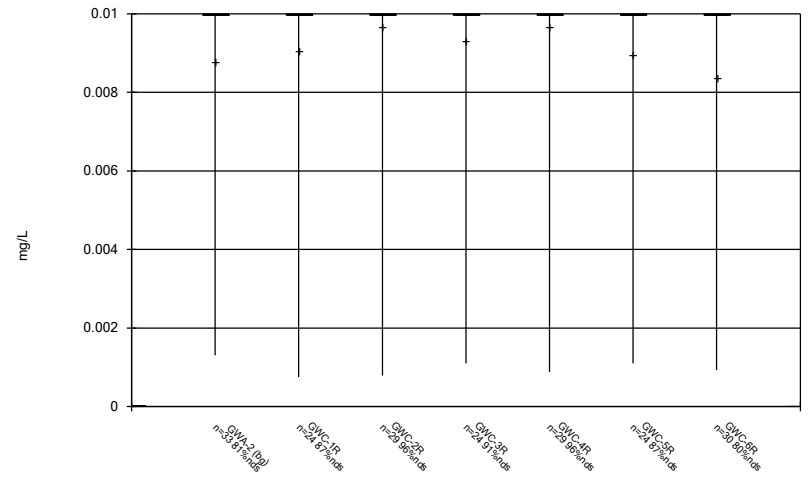
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



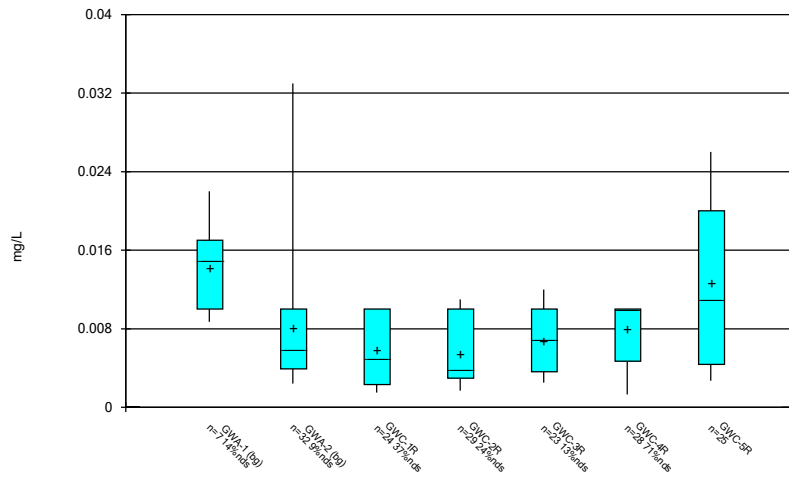
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Box & Whiskers Plot



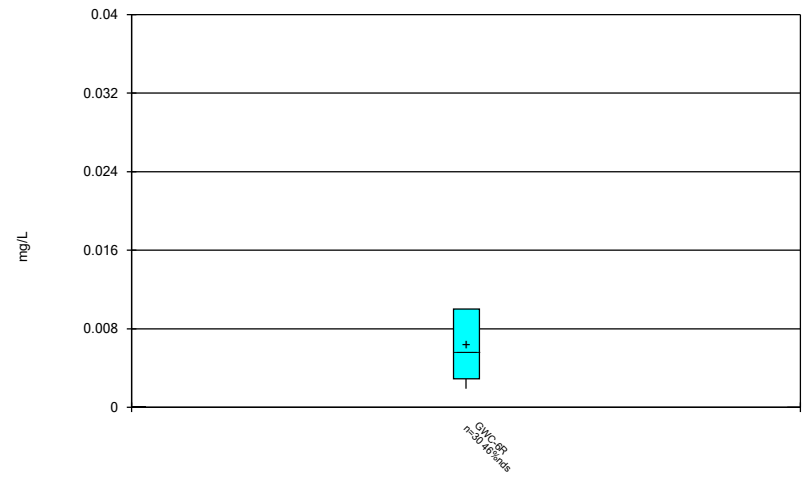
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 10/21/2022 3:10 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 10/21/2022 3:10 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/24/2022, 2:49 PM

	GWA-2 Cobalt (mg/L)	GWA-2 Zinc (mg/L)	GWC-3R Zinc (mg/L)	GWC-4R Zinc (mg/L)
3/11/2011				0.025 (o)
2/5/2014		0.018 (o)	0.026 (o)	
8/26/2020	0.2 (o)			
9/22/2020	0.16 (o)			
3/2/2021	0.21 (o)			
8/20/2021	0.074 (o)			
2/8/2022	0.072 (o)			
8/30/2022	0.075 (o)			

FIGURE D.

Appendix I & II Intrawell Prediction Limit - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-1R	0.019	n/a	8/30/2022	0.03	Yes	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2

Appendix I & II Intrawell Prediction Limit - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 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-2	0.003	n/a	8/30/2022	0.003ND	No	36	n/a	n/a	91.67	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	8/31/2022	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-4R	0.003	n/a	8/30/2022	0.00094J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	8/30/2022	0.003ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	8/30/2022	0.0024J	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	8/30/2022	0.0035J	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	8/31/2022	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-3R	0.005	n/a	8/30/2022	0.005ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	8/30/2022	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-5R	0.005	n/a	8/30/2022	0.0035J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	72.73	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07655	n/a	8/30/2022	0.031	No	36	0.04995	0.01231	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09209	n/a	8/30/2022	0.058	No	27	0.04909	0.01922	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	8/31/2022	0.026	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.08517	n/a	8/30/2022	0.01	No	27	0.3004	0.06239	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.06816	n/a	8/30/2022	0.022	No	28	0.3039	0.04699	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.058	n/a	8/30/2022	0.01	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-6R	0.09329	n/a	8/30/2022	0.028	No	33	0.04743	0.02102	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	8/30/2022	0.00037J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	8/31/2022	0.00023J	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	8/30/2022	0.00056	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	8/30/2022	0.000072J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.0037	n/a	8/30/2022	0.0032	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWC-1R	0.0025	n/a	8/30/2022	0.00026J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0005	n/a	8/31/2022	0.00012J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	8/30/2022	0.00016J	No	27	n/a	n/a	62.96	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	8/30/2022	0.00011J	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.00114	n/a	8/30/2022	0.00098	No	27	4.6e-10	4.5e-10	29.63	Kaplan-Meier	x^3	0.0005852	Param Intra 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	8/30/2022	0.005ND	No	36	n/a	n/a	77.78	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.0015J	No	27	n/a	n/a	44.44	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	32	n/a	n/a	84.38	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	8/30/2022	0.005ND	No	27	n/a	n/a	29.63	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	8/30/2022	0.005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	8/30/2022	0.0019J	No	27	n/a	n/a	18.52	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.0016J	No	33	n/a	n/a	33.33	n/a	n/a	0.001701	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006801	n/a	n/a	1 future	n/a	32	0.00327	0.001613	34.38	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.015	n/a	8/30/2022	0.00087J	No	27	n/a	n/a	37.04	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04592	n/a	8/31/2022	0.0036J	No	32	0.02134	0.01123	3.125	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.011	n/a	8/30/2022	0.0021J	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.006272	n/a	8/30/2022	0.002J	No	32	0.002253	0.001836	28.13	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.00077J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	96.97	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.0074	n/a	8/30/2022	0.005ND	No	29	n/a	n/a	44.83	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	8/30/2022	0.005ND	No	25	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	26	n/a	n/a	50	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	8/30/2022	0.001ND	No	36	n/a	n/a	97.22	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2

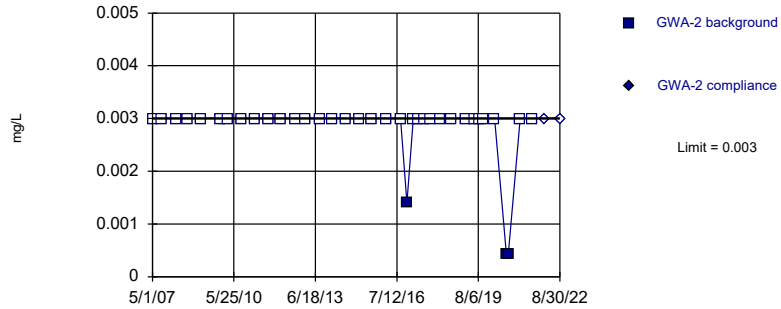
Appendix I & II Intrawell Prediction Limit - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	8/31/2022	0.001ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	8/30/2022	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	8/30/2022	0.0002ND	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	8/31/2022	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00043	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	8/30/2022	0.00014J	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	8/30/2022	0.0002ND	No	33	n/a	n/a	93.94	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.034	n/a	8/30/2022	0.015	No	29	n/a	n/a	10.34	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.008772	n/a	8/30/2022	0.0027J	No	20	-6.236	0.6381	30	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.0096	n/a	8/31/2022	0.005ND	No	25	n/a	n/a	44	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.0021J	No	25	n/a	n/a	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.004969	n/a	8/30/2022	0.00097J	No	20	0.04397	0.01129	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	26	n/a	n/a	65.38	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1R	0.019	n/a	8/30/2022	0.03	Yes	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-2R	0.01	n/a	8/31/2022	0.0042J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-3R	0.017	n/a	8/30/2022	0.0068	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-4R	0.01445	n/a	8/30/2022	0.0038J	No	32	0.07177	0.02213	25	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.04089	n/a	8/30/2022	0.019	No	27	0.02169	0.008579	3.704	None	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.0051	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	51.52	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	8/30/2022	0.001ND	No	35	n/a	n/a	88.57	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	8/31/2022	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	8/30/2022	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	8/30/2022	0.0026J	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	8/31/2022	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-3R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	8/30/2022	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-5R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.01ND	No	28	n/a	n/a	78.57	n/a	n/a	0.002337	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.02538	n/a	8/30/2022	0.011	No	30	-5.103	0.6488	10	None	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	31.82	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2R	0.01022	n/a	8/31/2022	0.01ND	No	27	-5.718	0.507	18.52	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01375	n/a	8/30/2022	0.01ND	No	21	0.006395	0.003152	9.524	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.01ND	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.02878	n/a	8/30/2022	0.022	No	23	0.01173	0.007426	0	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.01ND	No	28	n/a	n/a	42.86	n/a	n/a	0.002337	NP Intra (normality) 1 of 2

Within Limit

Prediction Limit Intrawell Non-parametric

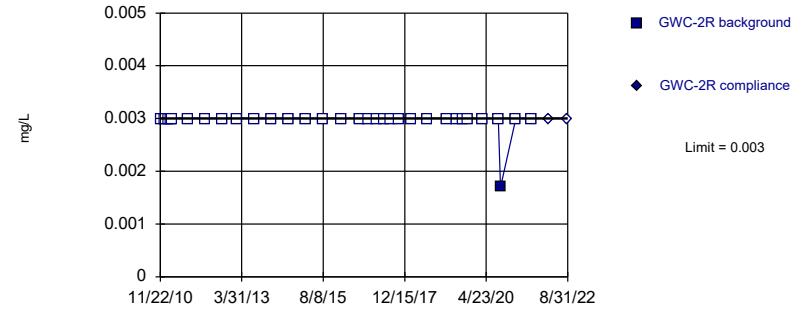


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Antimony Analysis Run 10/25/2022 1:29 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

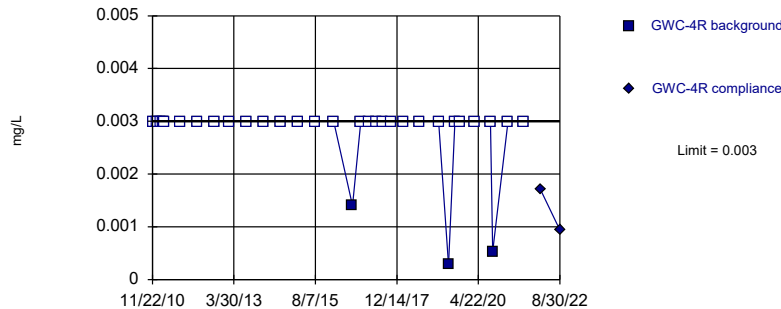


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 10/25/2022 1:29 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

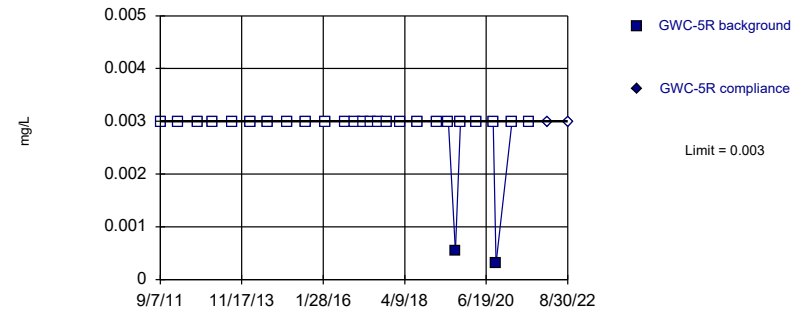


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 10/25/2022 1:29 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

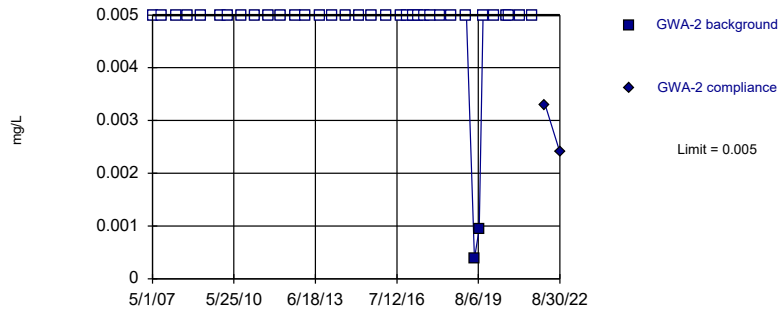


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Antimony Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

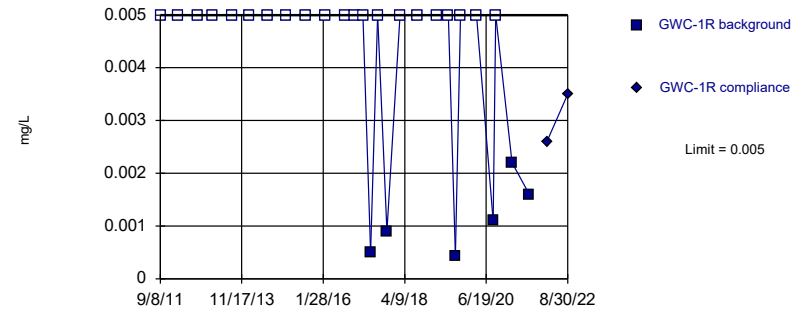


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

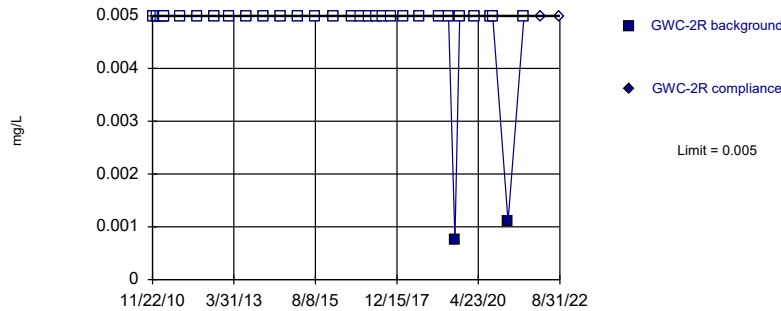


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

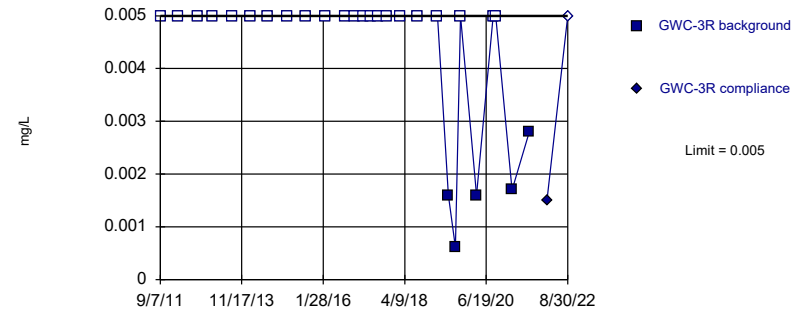


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

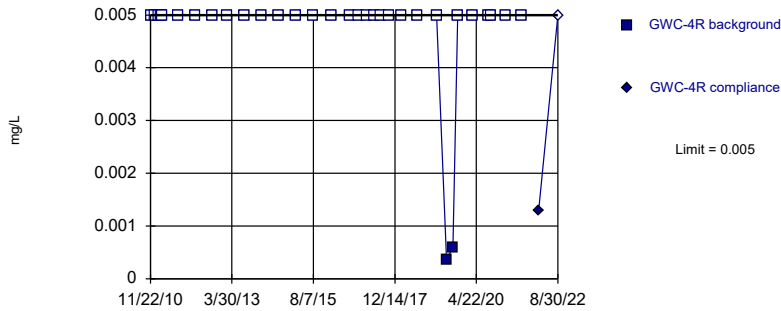


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

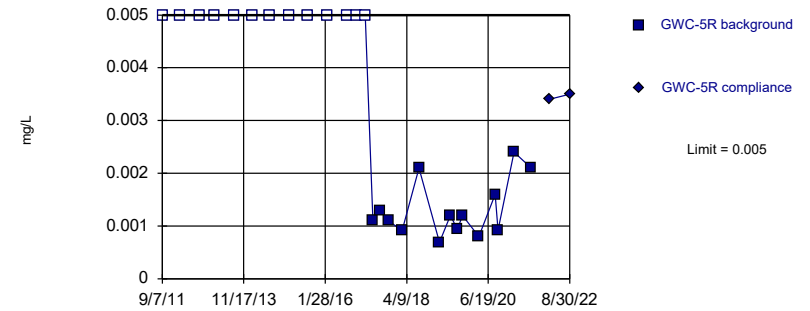


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

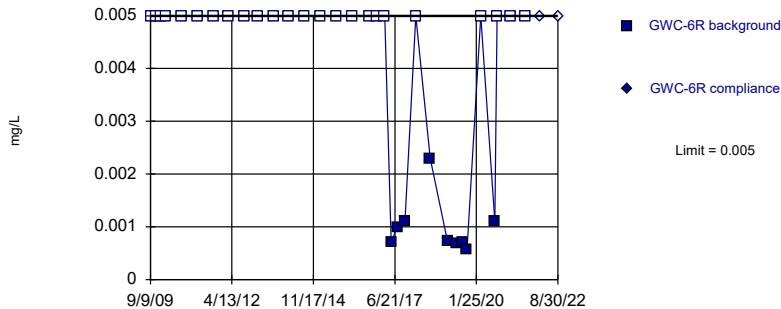


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

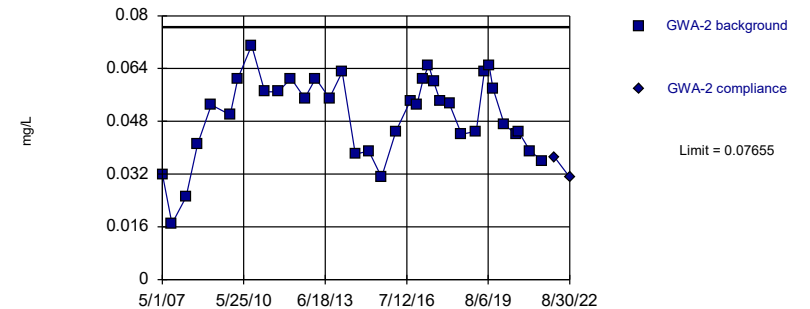


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

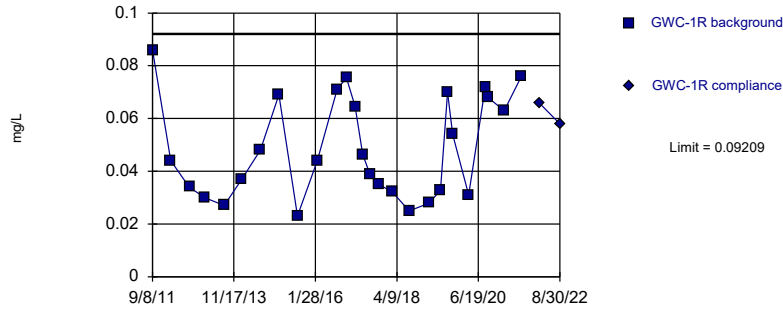


Background Data Summary: Mean=0.04995, Std. Dev.=0.01231, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9537, critical = 0.912. Kappa = 2.161 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

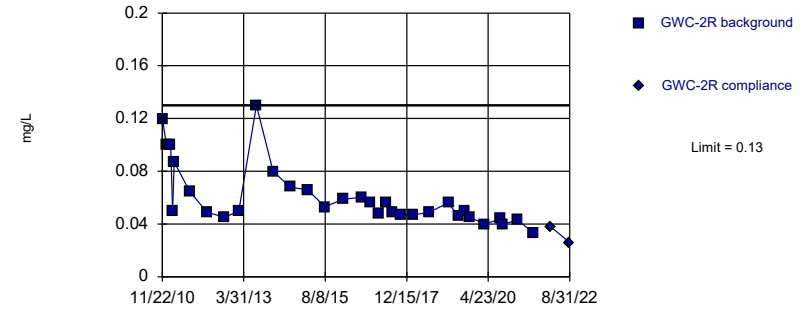


Background Data Summary: Mean=0.04909, Std. Dev.=0.01922, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9082, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

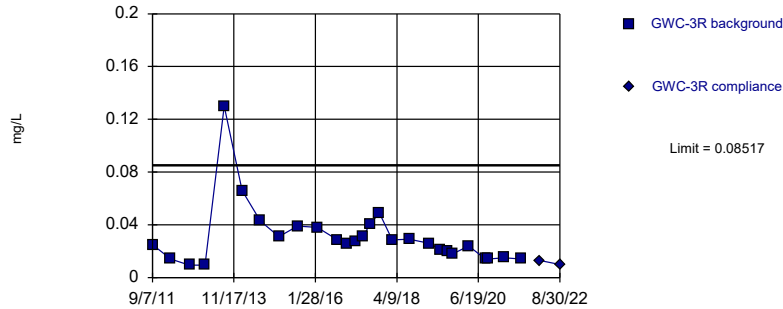


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

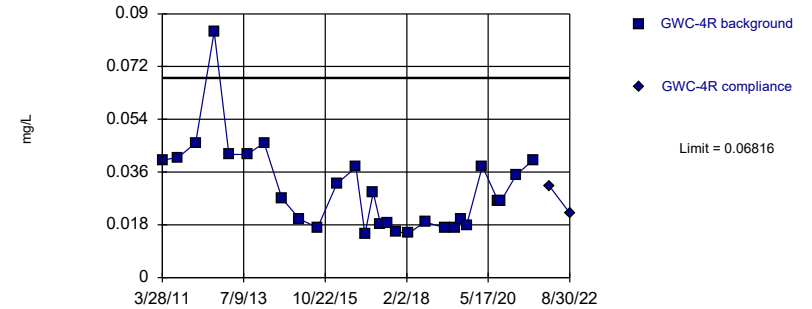


Background Data Summary (based on cube root transformation): Mean=0.3004, Std. Dev.=0.06239, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

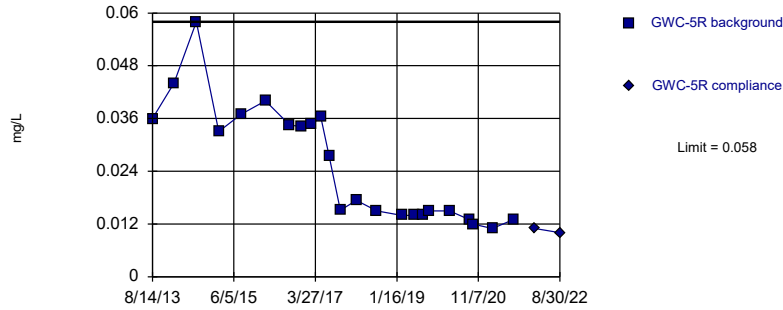


Background Data Summary (based on cube root transformation): Mean=0.3039, Std. Dev.=0.04699, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.896. Kappa = 2.226 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

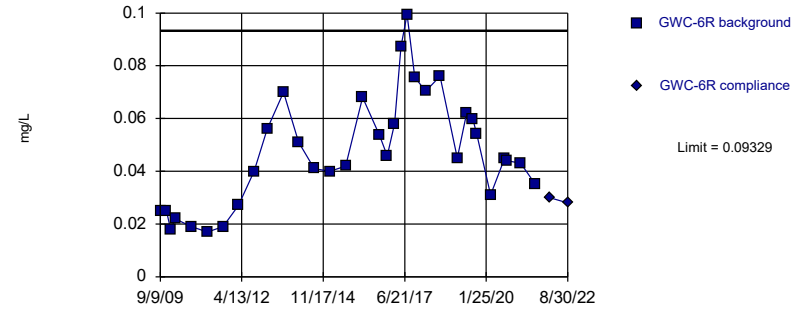


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

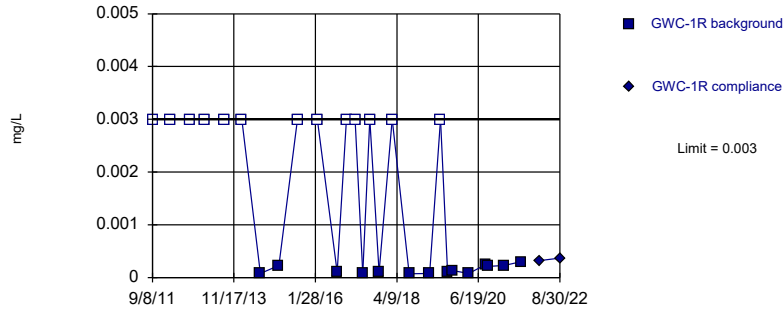


Background Data Summary: Mean=0.04743, Std. Dev.=0.02102, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.958, critical = 0.906. Kappa = 2.181 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

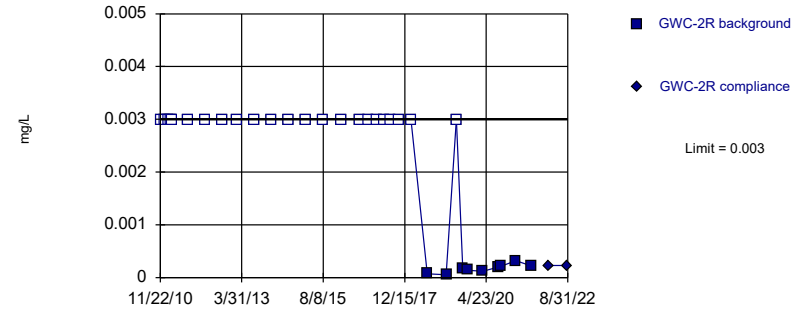


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

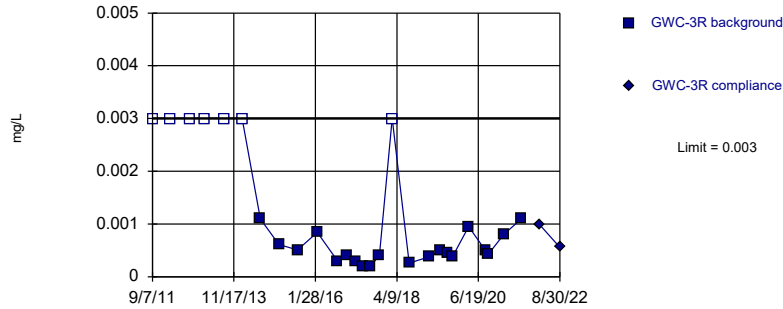


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 71.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

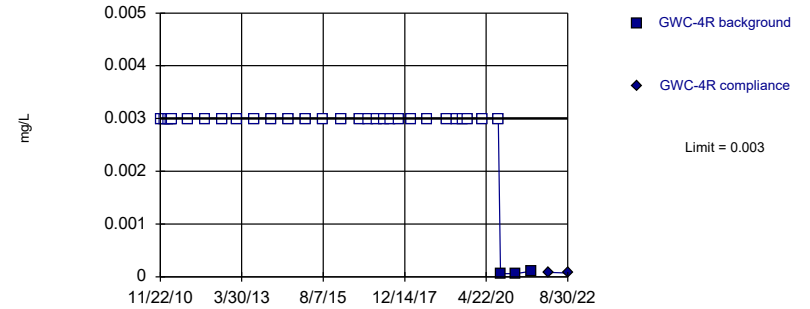


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 25.93% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

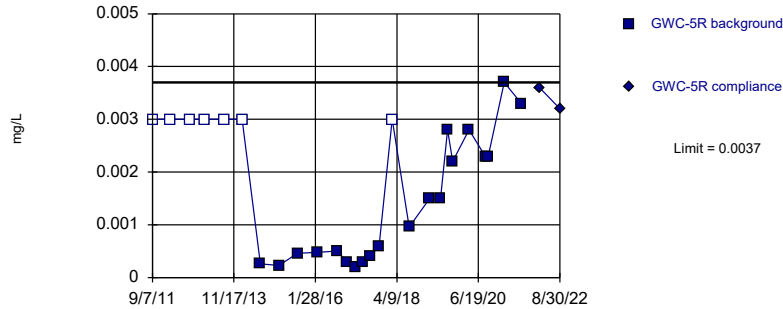


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

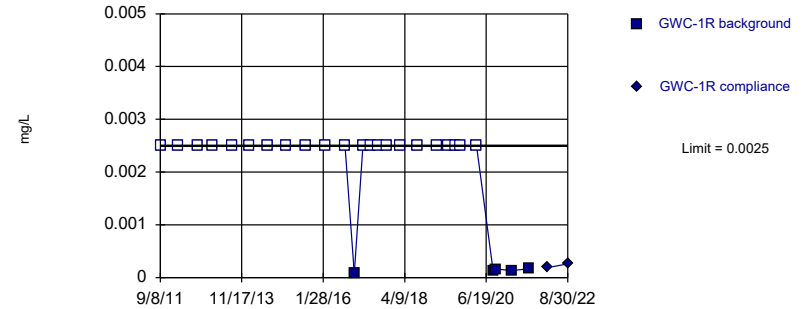


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 25.93% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

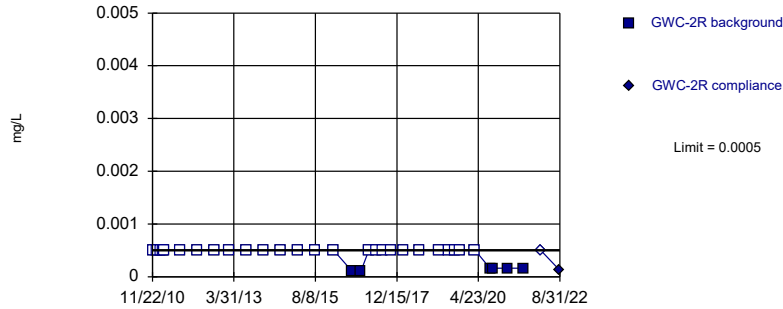


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

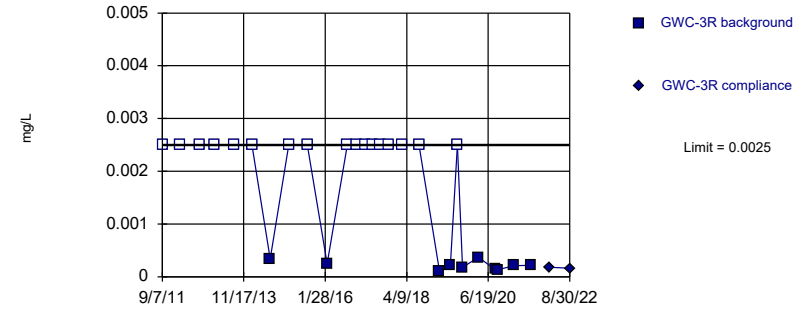


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

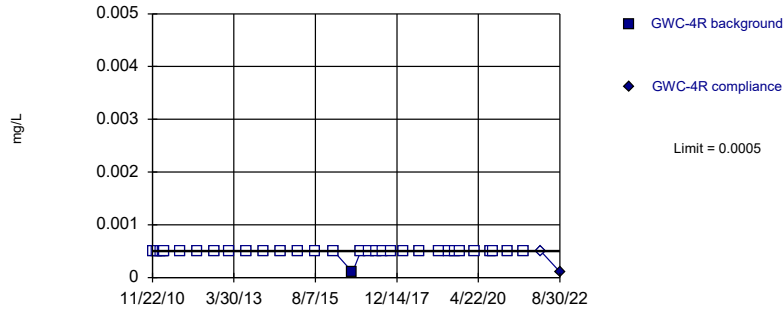


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 62.96% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

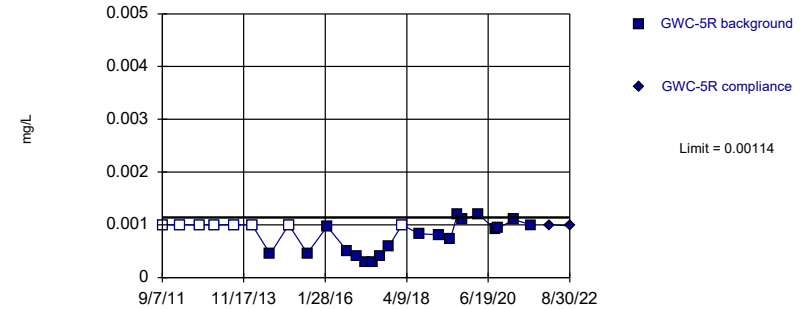


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

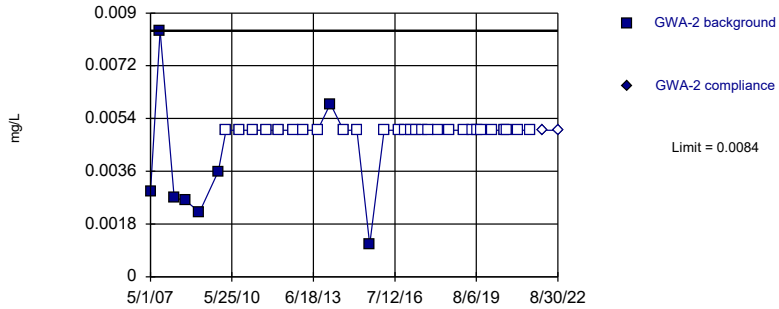


Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=4.6e-10, Std. Dev.=4.5e-10, n=27, 29.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.898, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005825.

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

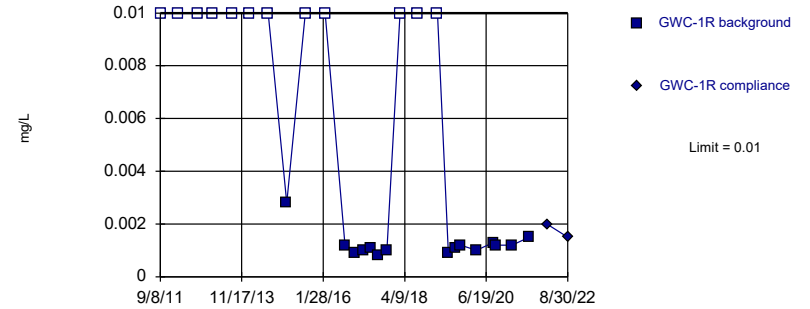


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

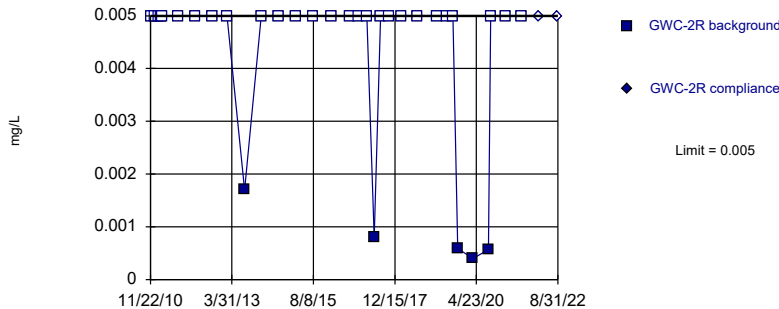


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

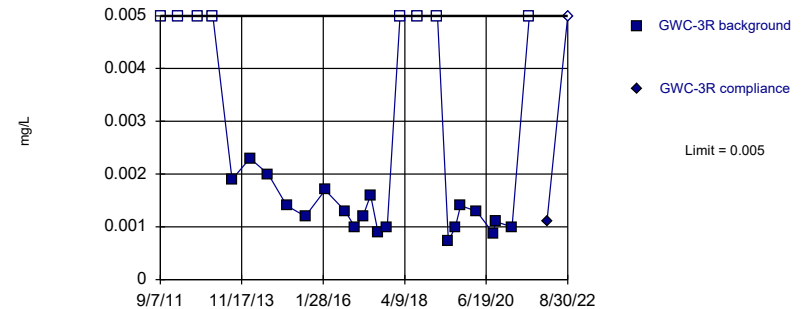


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 84.38% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

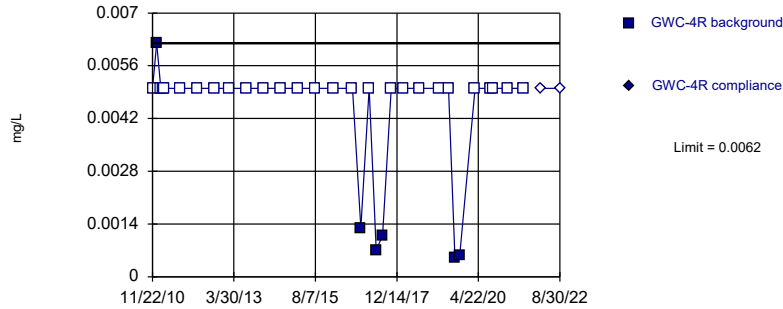


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 29.63% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

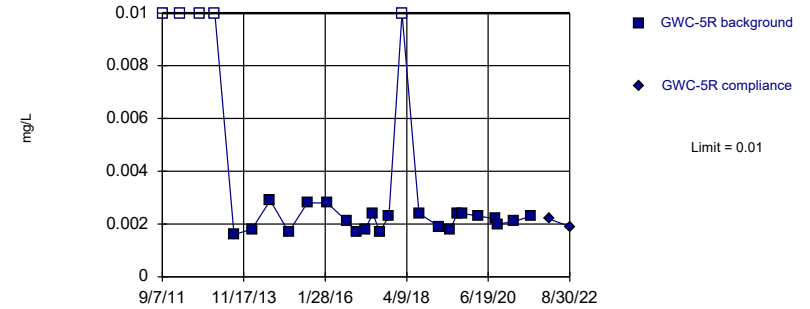


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

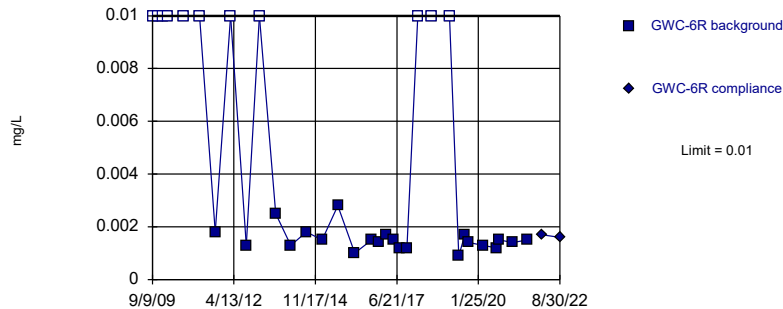


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 18.52% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

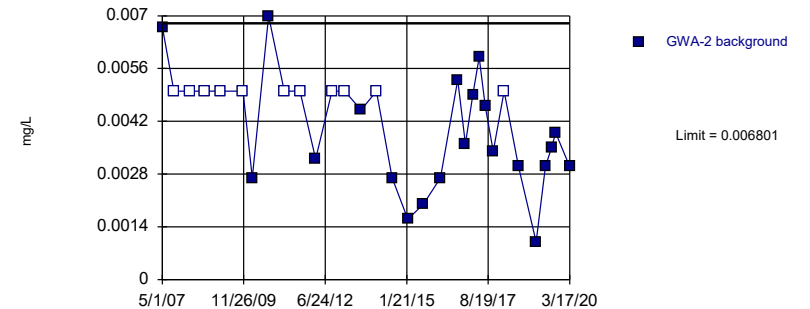


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 33 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric, GWA-2 (bg)

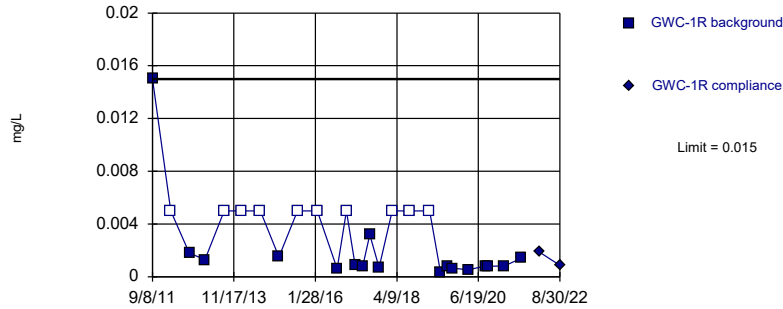


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00327, Std. Dev.=0.001613, n=32, 34.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852. Assumes 1 future value.

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

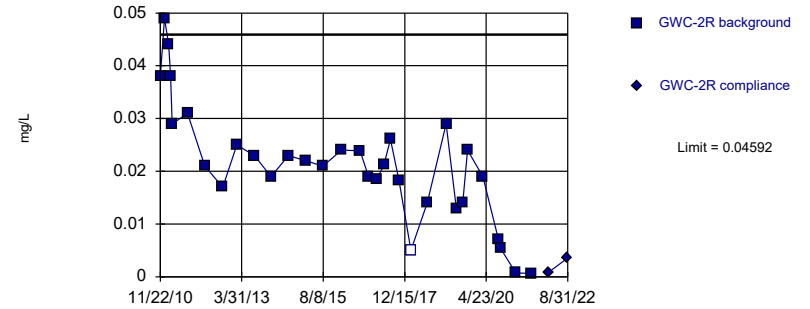


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 37.04% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

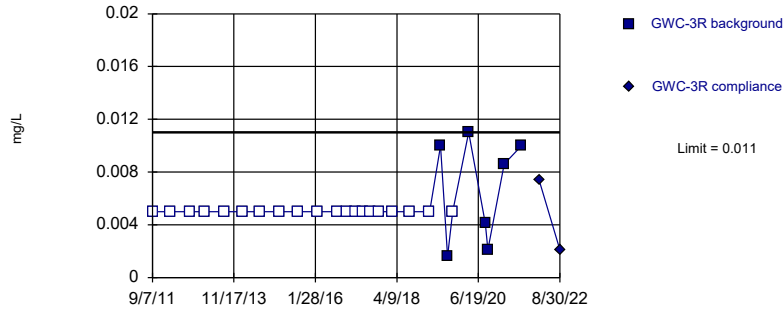


Background Data Summary: Mean=0.02134, Std. Dev.=0.01123, n=32, 3.125% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

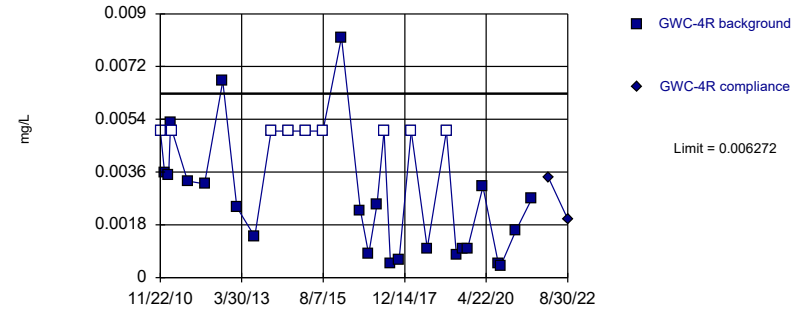


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

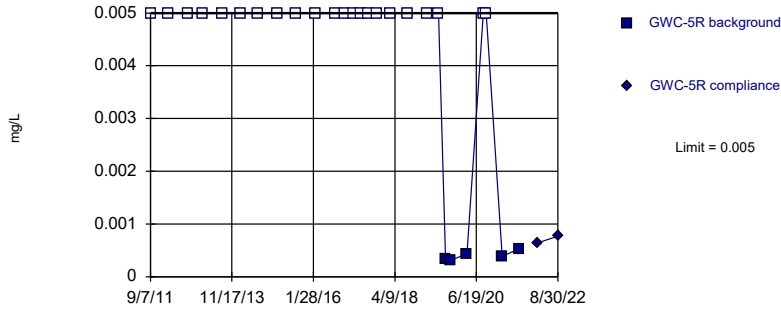


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002253, Std. Dev.=0.001836, n=32, 28.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9125, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

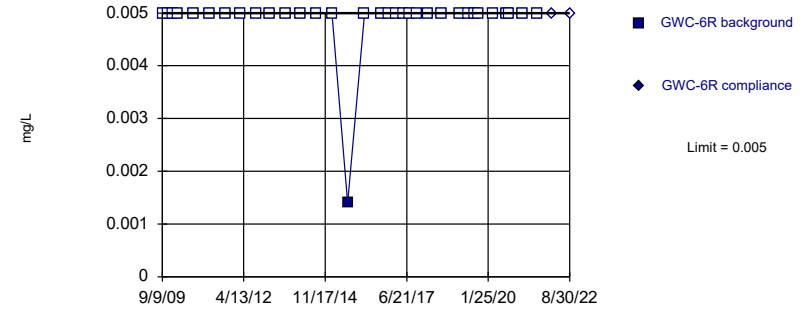


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

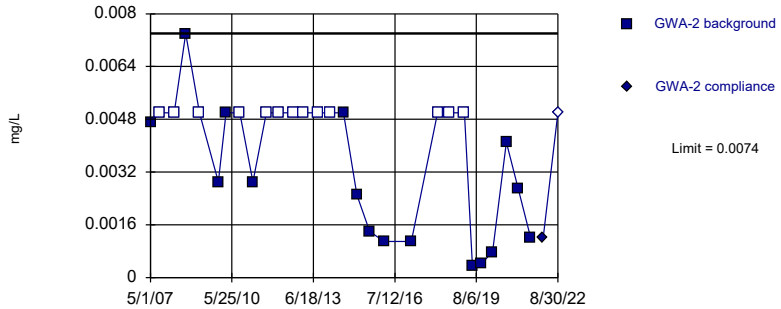


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 96.97% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

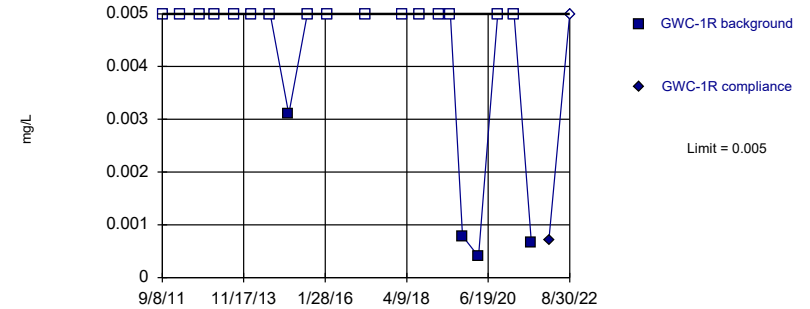


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 29 background values. 44.83% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

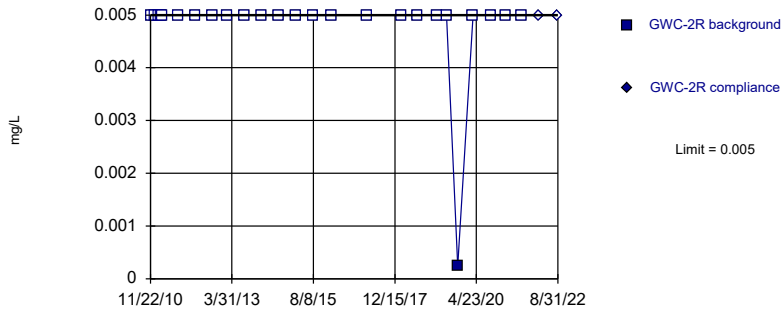


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

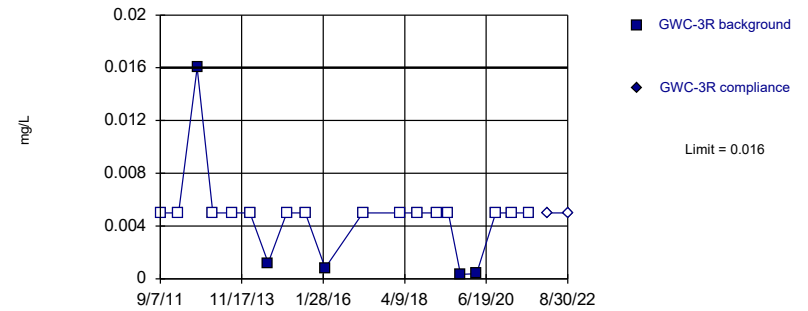


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

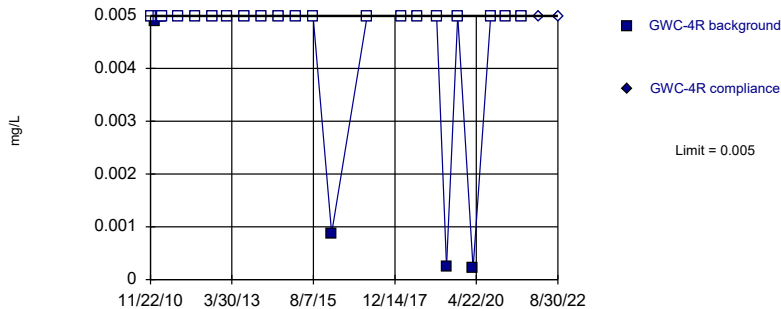


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

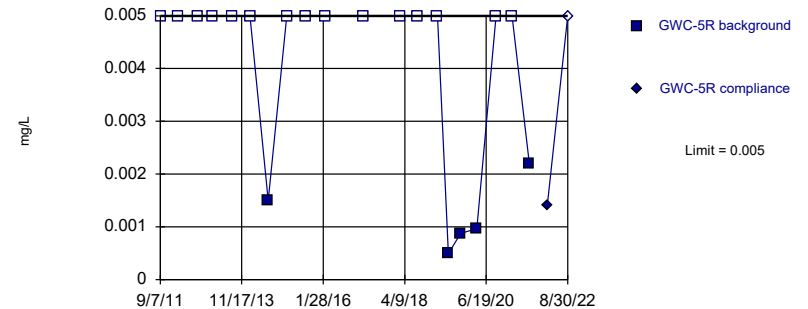


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 84% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

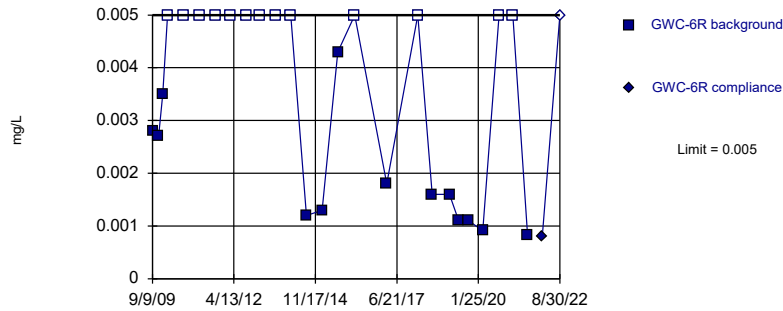


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

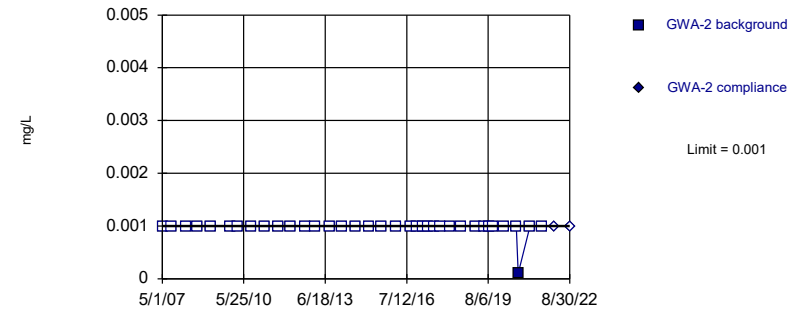


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 50% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

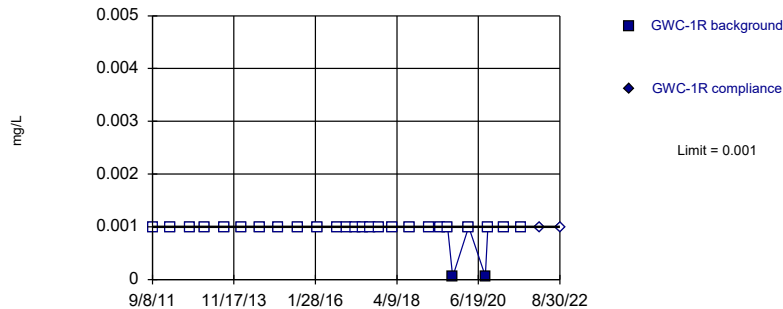


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 97.22% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

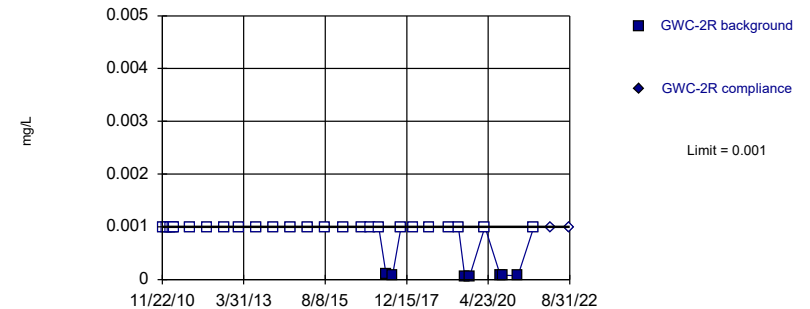


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

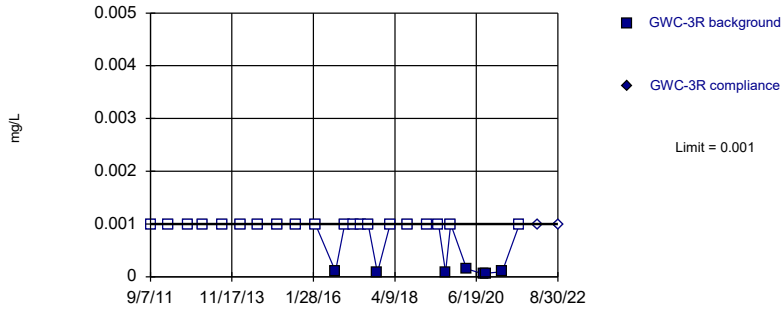


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

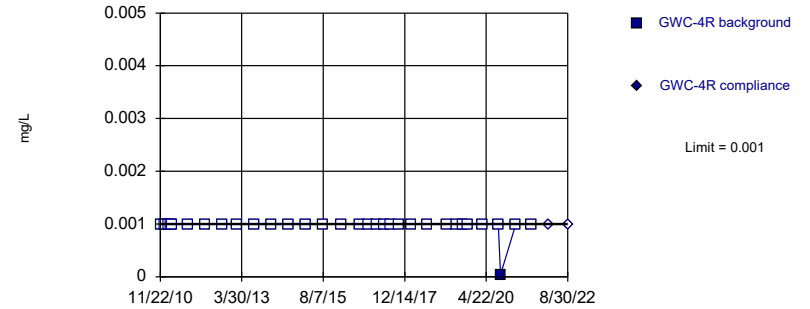


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

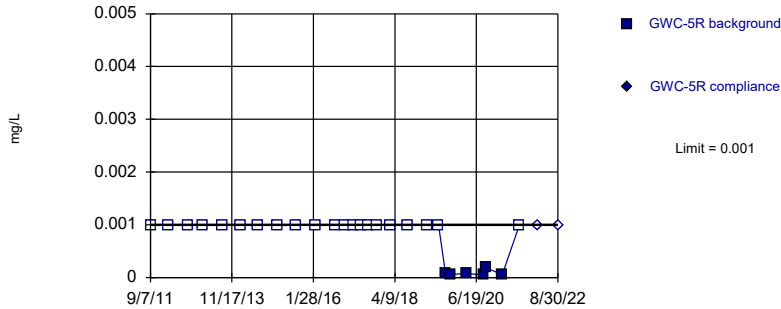


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

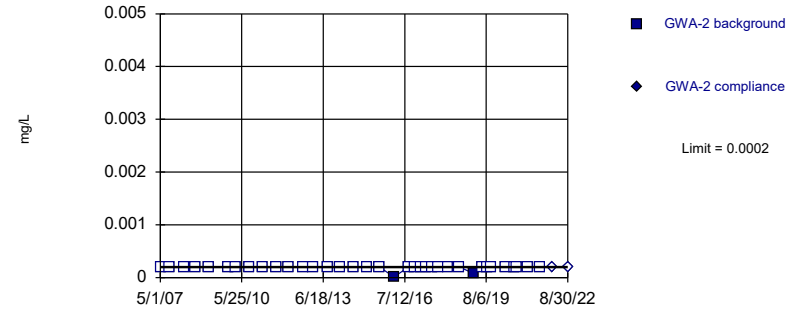


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

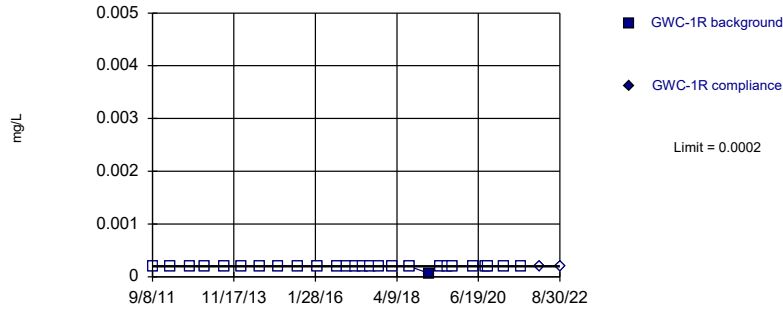


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

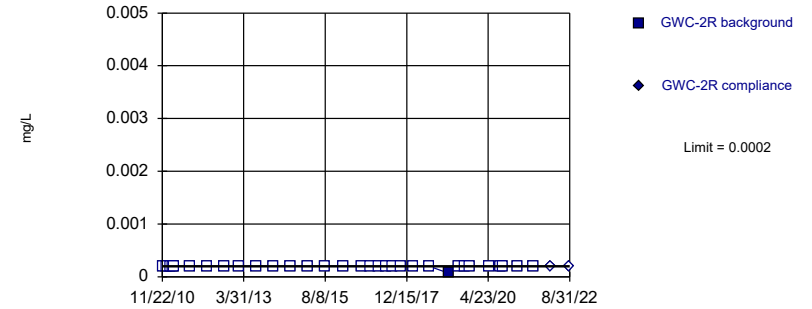


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

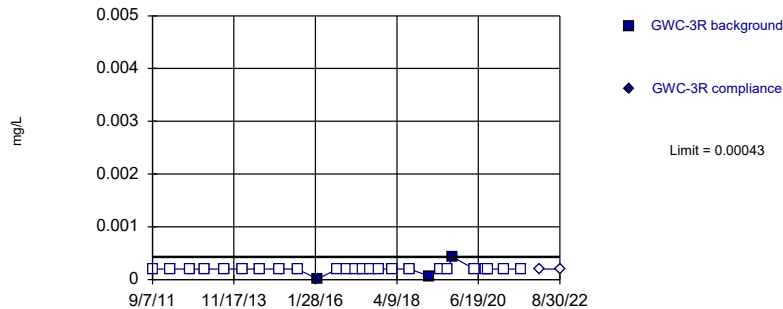


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

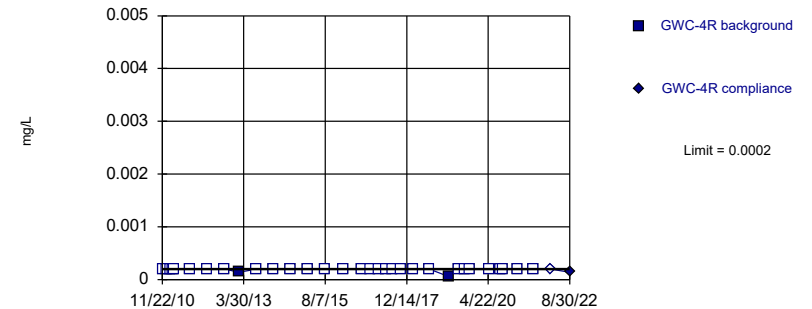


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

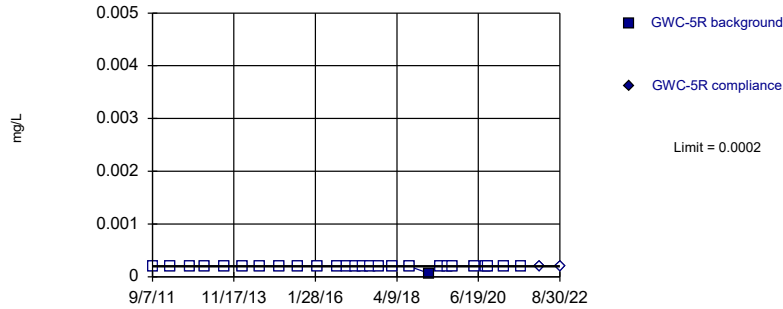


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

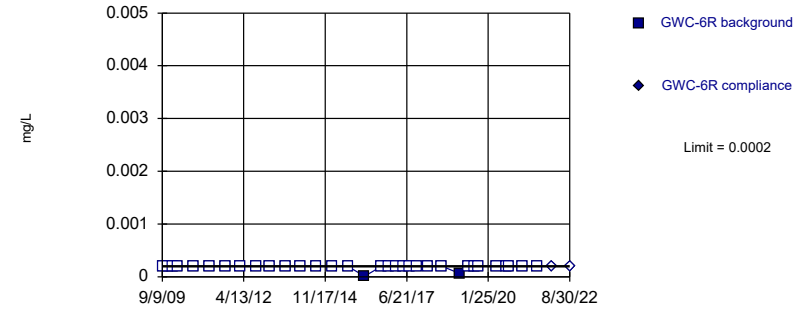


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

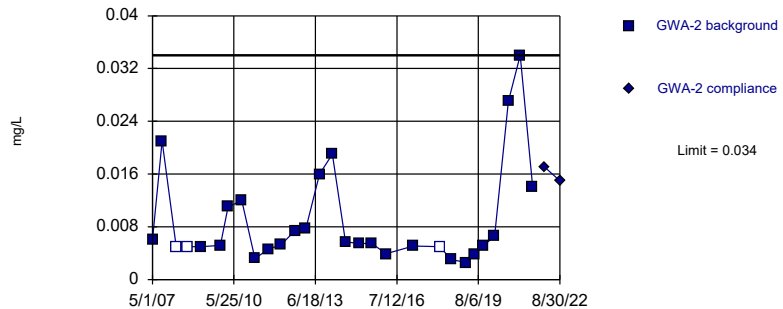


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 93.94% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

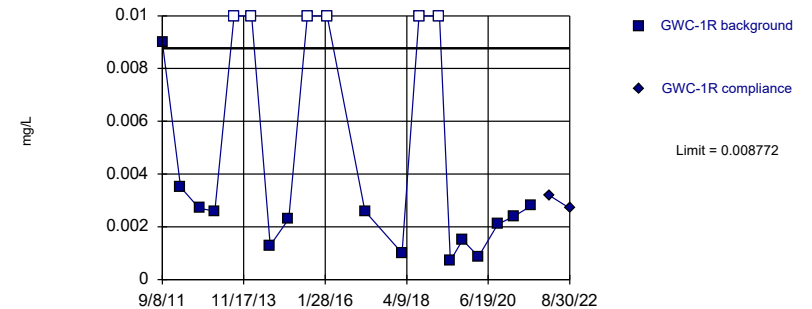


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 29 background values. 10.34% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

Constituent: Nickel Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

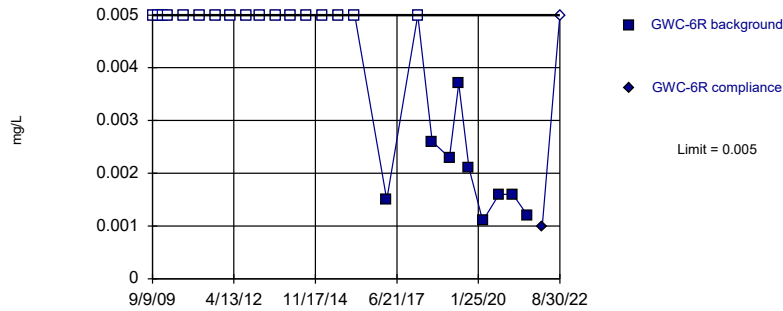


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.236, Std. Dev.=0.6381, n=20, 30% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8747, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Nickel Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

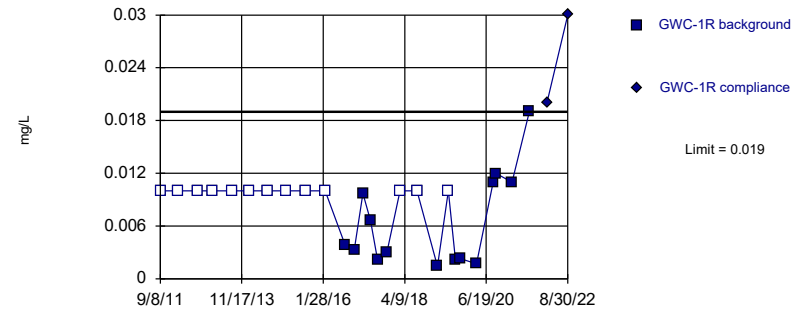


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 65.38% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

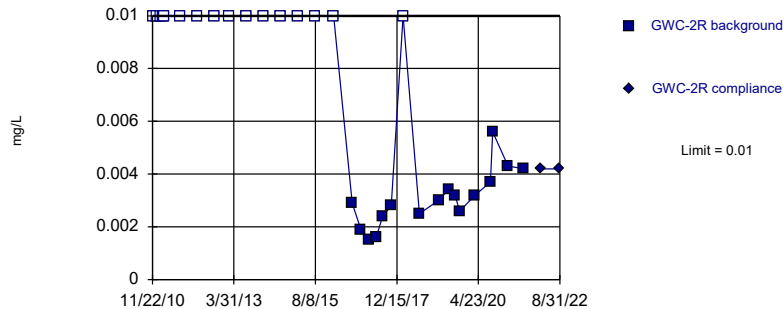


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

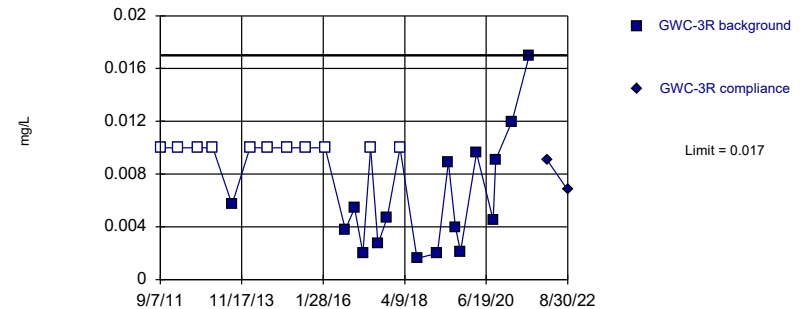


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 50% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

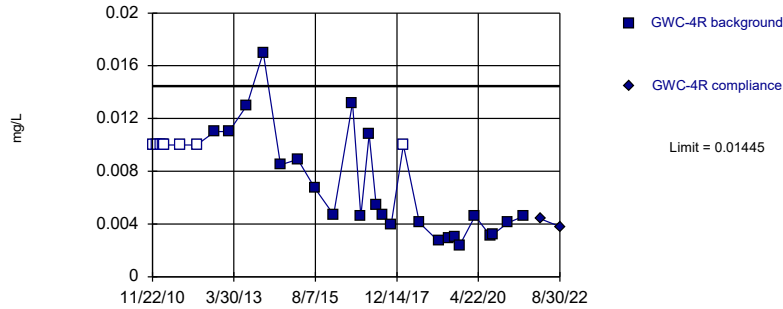


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 40.74% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

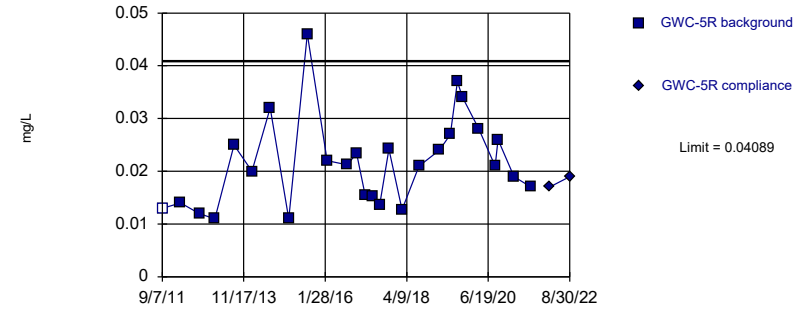


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07177, Std. Dev.=0.02213, n=32, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9096, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

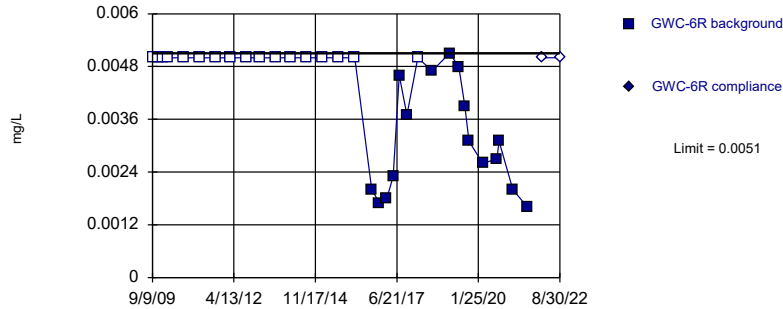


Background Data Summary: Mean=0.02169, Std. Dev.=0.008579, n=27, 3.704% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9252, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

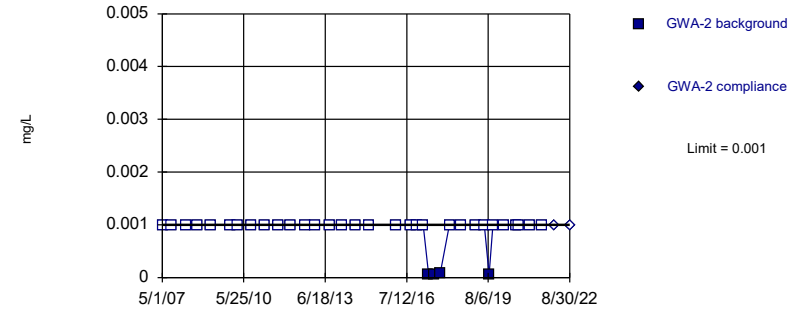


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 51.52% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

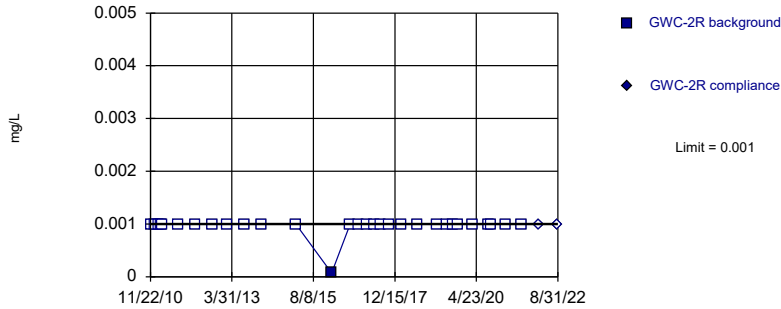


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 35 background values. 88.57% NDs. Well-constituent pair annual alpha = 0.002991. Individual comparison alpha = 0.001497 (1 of 2).

Constituent: Thallium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

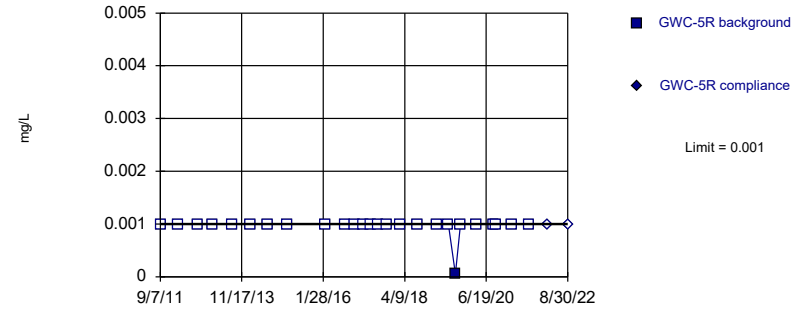


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Thallium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

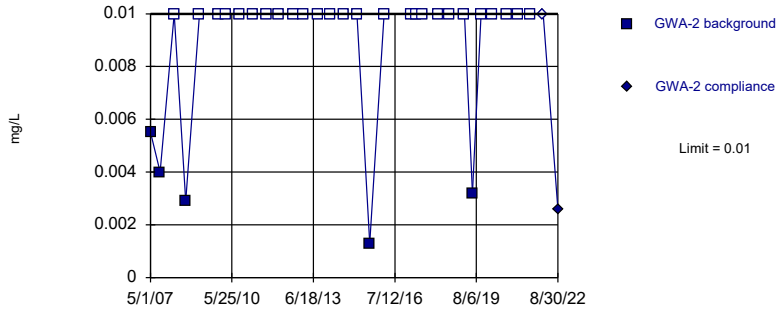


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Thallium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

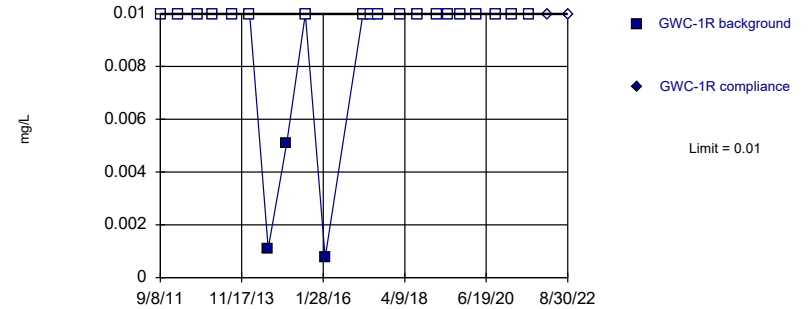


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

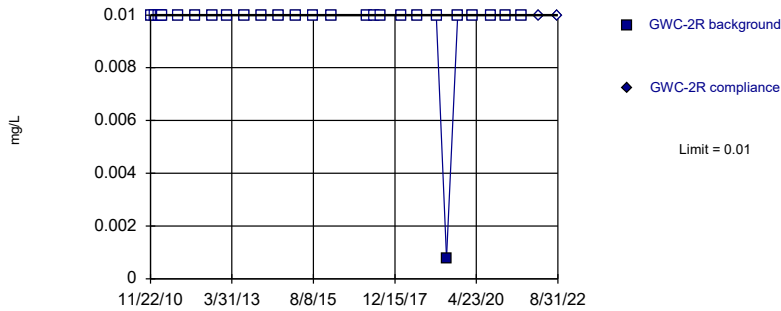


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

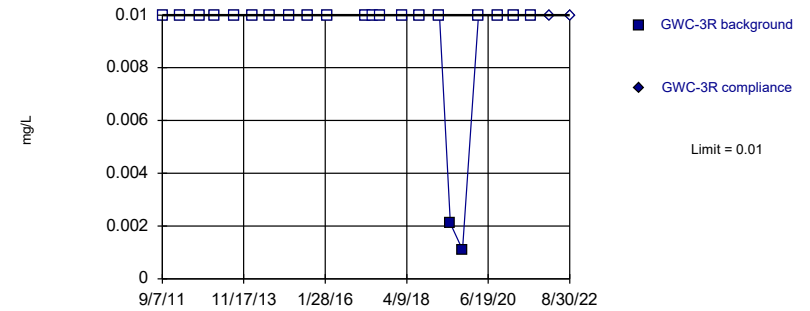


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

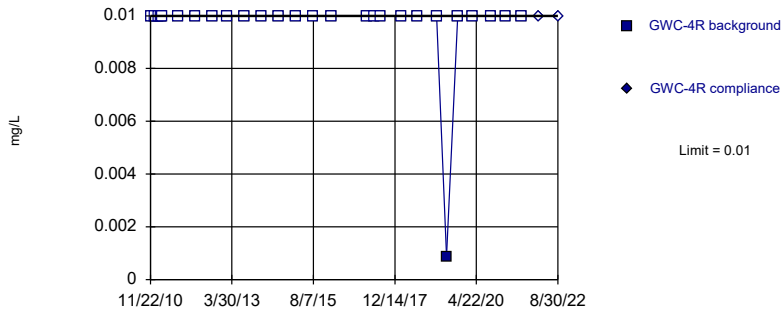


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

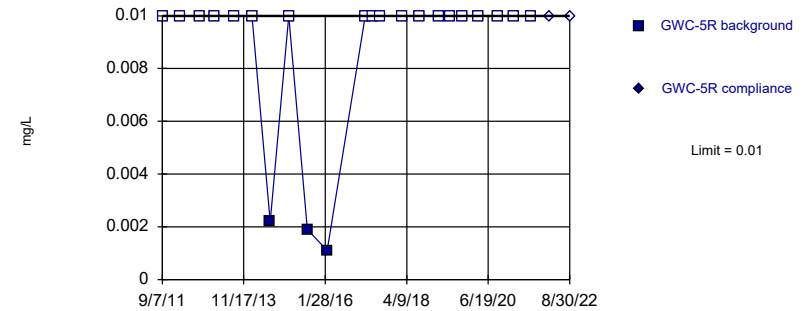


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

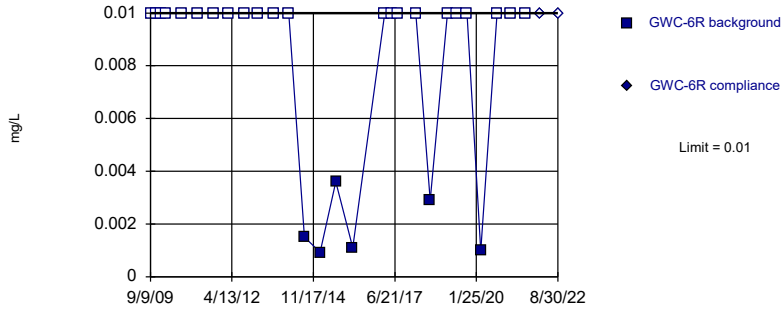


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

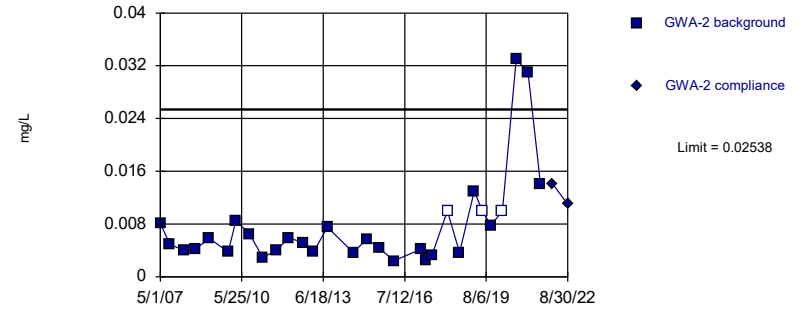


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 28 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

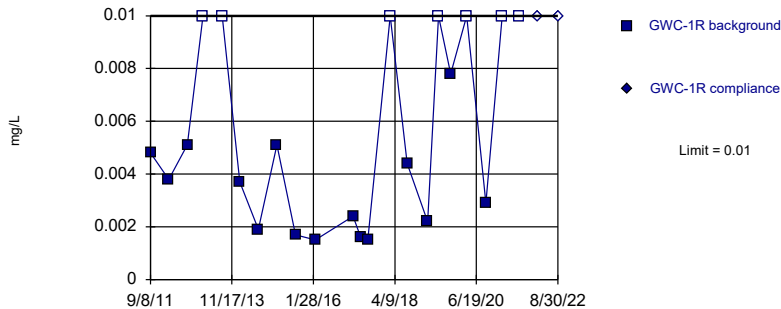


Background Data Summary (based on natural log transformation): Mean=-5.103, Std. Dev.=0.6488, n=30, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9155, critical = 0.9. Kappa = 2.203 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

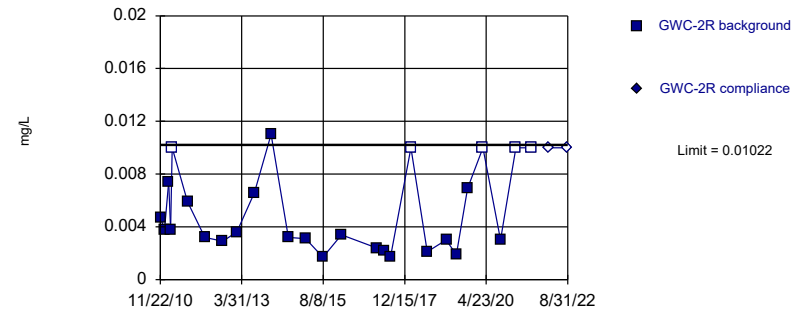


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 31.82% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

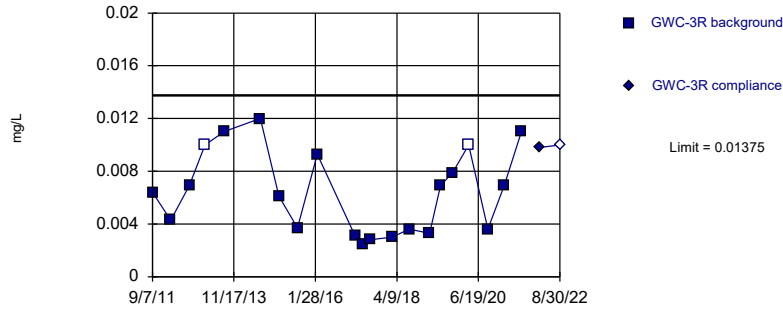


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.718, Std. Dev.=0.507, n=27, 18.52% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

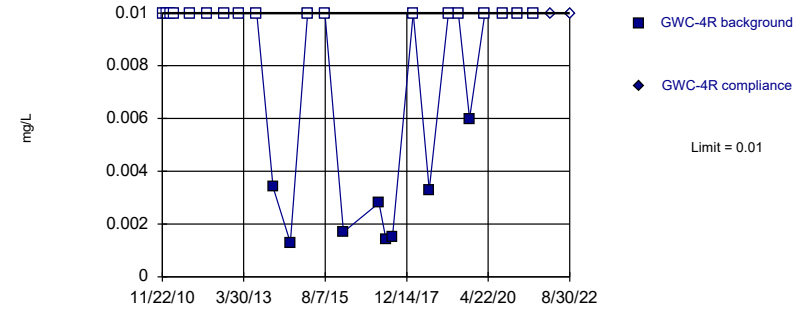


Background Data Summary: Mean=0.006395, Std. Dev.=0.003152, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.873. Kappa = 2.332 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

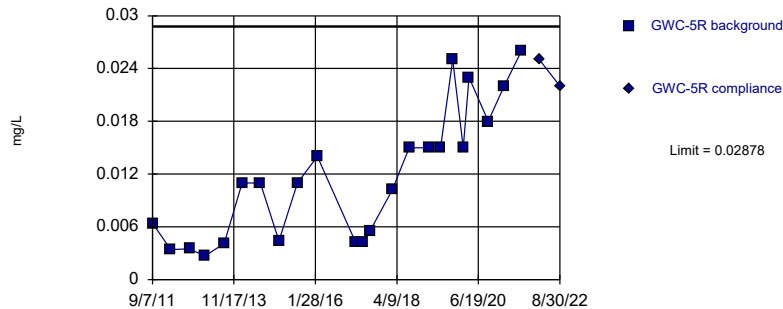


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

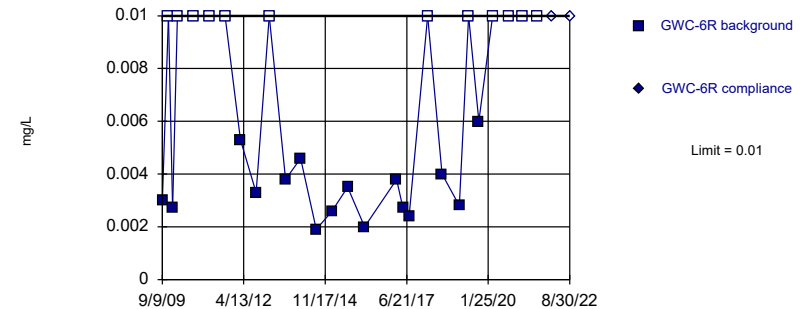


Background Data Summary: Mean=0.01173, Std. Dev.=0.007426, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum 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 28 background values. 42.86% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.003	
9/11/2007	<0.003	
3/20/2008	<0.003	
8/27/2008	<0.003	
3/3/2009	<0.003	
11/18/2009	<0.003	
3/3/2010	<0.003	
9/8/2010	<0.003	
3/10/2011	<0.003	
9/8/2011	<0.003	
3/5/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/12/2013	<0.003	
2/5/2014	<0.003	
8/5/2014	<0.003	
2/4/2015	<0.003	
8/3/2015	<0.003	
2/16/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	0.0014 (J)	
2/22/2017	<0.003	
5/8/2017	<0.003	
7/17/2017	<0.003	
10/16/2017	<0.003	
2/19/2018	<0.003	
8/6/2018	<0.003	
2/25/2019	<0.003	
6/12/2019	<0.003	
8/19/2019	<0.003	
10/8/2019	<0.003	
3/17/2020	<0.003	
8/26/2020	0.00042 (J)	
9/22/2020	0.00044 (J)	
3/2/2021	<0.003	
8/20/2021	<0.003	
2/8/2022		<0.003
8/30/2022		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/6/2012	<0.003	
9/11/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	<0.003	
2/2/2015	<0.003	
8/4/2015	<0.003	
2/17/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	<0.003	
2/22/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019	<0.003	
6/12/2019	<0.003	
8/20/2019	<0.003	
10/9/2019	<0.003	
3/18/2020	<0.003	
8/28/2020	<0.003	
9/22/2020	0.0017 (J)	
3/1/2021	<0.003	
8/18/2021	<0.003	
2/9/2022		<0.003
8/31/2022		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/4/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/14/2013	<0.003	
2/4/2014	<0.003	
8/4/2014	<0.003	
2/2/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	0.0014 (J)	
11/30/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019	<0.003	
6/12/2019	0.00028 (J)	
8/19/2019	<0.003	
10/10/2019	<0.003	
3/18/2020	<0.003	
8/28/2020	<0.003	
9/22/2020	0.00053 (J)	
3/1/2021	<0.003	
8/18/2021	<0.003	
2/8/2022		0.0017 (J)
8/30/2022		0.00094 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/14/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	<0.003	
2/3/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	<0.003	
12/1/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/17/2017	<0.003	
10/16/2017	<0.003	
2/21/2018	<0.003	
8/7/2018	<0.003	
2/26/2019	<0.003	
6/13/2019	<0.003	
8/21/2019	0.00054 (J)	
10/9/2019	<0.003	
3/18/2020	<0.003	
8/27/2020	<0.003	
9/23/2020	0.00031 (J)	
3/2/2021	<0.003	
8/18/2021	<0.003	
2/9/2022		<0.003
8/30/2022		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.005	
9/11/2007	<0.005	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	<0.005	
11/18/2009	<0.005	
3/3/2010	<0.005	
9/8/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	<0.005	
2/5/2014	<0.005	
8/5/2014	<0.005	
2/4/2015	<0.005	
8/3/2015	<0.005	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/8/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
6/12/2019	0.00038 (J)	
8/19/2019	0.00095 (J)	
10/8/2019	<0.005	
3/17/2020	<0.005	
8/26/2020	<0.005	
9/22/2020	<0.005	
3/2/2021	<0.005	
8/20/2021	<0.005	
2/8/2022		0.0033 (J)
8/30/2022		0.0024 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	0.0005 (J)	
7/18/2017	<0.005	
10/17/2017	0.0009 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
8/20/2019	0.00044 (J)	
10/9/2019	<0.005	
3/17/2020	<0.005	
8/27/2020	0.0011 (J)	
9/22/2020	<0.005	
3/1/2021	0.0022 (J)	
8/18/2021	0.0016 (J)	
2/8/2022		0.0026 (J)
8/30/2022		0.0035 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	<0.005	
8/20/2019	0.00075 (J)	
10/9/2019	<0.005	
3/18/2020	<0.005	
8/28/2020	<0.005	
9/22/2020	<0.005	
3/1/2021	0.0011 (J)	
8/18/2021	<0.005	
2/9/2022		<0.005
8/31/2022		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.0016 (J)	
8/21/2019	0.00061 (J)	
10/10/2019	<0.005	
3/17/2020	0.0016 (J)	
8/28/2020	<0.005	
9/22/2020	<0.005	
3/2/2021	0.0017 (J)	
8/18/2021	0.0028 (J)	
2/8/2022		0.0015 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/30/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	0.00037 (J)	
8/19/2019	0.00059 (J)	
10/10/2019	<0.005	
3/18/2020	<0.005	
8/28/2020	<0.005	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		0.0013 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
12/1/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	0.0011 (J)	
7/17/2017	0.0013 (J)	
10/16/2017	0.0011 (J)	
2/21/2018	0.00091 (J)	
8/7/2018	0.0021 (J)	
2/26/2019	0.00069 (J)	
6/13/2019	0.0012 (J)	
8/21/2019	0.00094 (J)	
10/9/2019	0.0012 (J)	
3/18/2020	0.0008 (J)	
8/27/2020	0.0016 (J)	
9/23/2020	0.00092 (J)	
3/2/2021	0.0024 (J)	
8/18/2021	0.0021 (J)	
2/9/2022		0.0034 (J)
8/30/2022		0.0035 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/10/2017	0.0007 (J)	
7/18/2017	0.001 (J)	
10/18/2017	0.0011 (J)	
2/19/2018	<0.005	
8/6/2018	0.0023 (J)	
2/25/2019	0.00073 (J)	
6/13/2019	0.00068 (J)	
8/20/2019	0.00072 (J)	
10/8/2019	0.00056 (J)	
3/17/2020	<0.005	
8/27/2020	0.0011 (J)	
9/23/2020	<0.005	
3/3/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.032	
9/11/2007	0.017	
3/20/2008	0.025	
8/27/2008	0.041	
3/3/2009	0.053	
11/18/2009	0.05	
3/3/2010	0.061	
9/8/2010	0.071	
3/10/2011	0.057	
9/8/2011	0.057	
3/5/2012	0.061	
9/10/2012	0.055	
2/6/2013	0.061	
8/12/2013	0.055	
2/5/2014	0.063	
8/5/2014	0.038	
2/4/2015	0.039	
8/3/2015	0.031	
2/16/2016	0.045	
8/31/2016	0.0542	
11/28/2016	0.0529	
2/22/2017	0.0607	
5/8/2017	0.065	
7/17/2017	0.06	
10/16/2017	0.0542	
2/19/2018	0.0533	
8/6/2018	0.044	
2/25/2019	0.045	
6/12/2019	0.063	
8/19/2019	0.065	
10/8/2019	0.058	
3/17/2020	0.047	
8/26/2020	0.044	
9/22/2020	0.045	
3/2/2021	0.039	
8/20/2021	0.036	
2/8/2022		0.037
8/30/2022		0.031

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.086	
3/5/2012	0.044	
9/5/2012	0.034	
2/5/2013	0.03	
8/13/2013	0.027	
2/4/2014	0.037	
8/5/2014	0.048	
2/2/2015	0.069	
8/4/2015	0.023 (D)	
2/16/2016	0.044	
8/31/2016	0.0711	
11/29/2016	0.0754	
2/23/2017	0.0646	
5/9/2017	0.0463	
7/18/2017	0.039	
10/17/2017	0.0349	
2/21/2018	0.0322	
8/7/2018	0.025	
2/26/2019	0.028	
6/13/2019	0.033	
8/20/2019	0.07	
10/9/2019	0.054	
3/17/2020	0.031	
8/27/2020	0.072	
9/22/2020	0.068	
3/1/2021	0.063	
8/18/2021	0.076	
2/8/2022		0.066
8/30/2022		0.058

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.12	
1/4/2011	0.1	
2/17/2011	0.1	
3/11/2011	0.05	
3/28/2011	0.087	
9/7/2011	0.065	
3/6/2012	0.049	
9/11/2012	0.045	
2/6/2013	0.05	
8/13/2013	0.13	
2/4/2014	0.08	
8/5/2014	0.068	
2/2/2015	0.066	
8/4/2015	0.053	
2/17/2016	0.059	
8/31/2016	0.0601	
11/28/2016	0.0562	
2/22/2017	0.0481	
5/10/2017	0.0563	
7/18/2017	0.049	
10/17/2017	0.047	
2/20/2018	0.0467	
8/8/2018	0.049	
2/26/2019	0.056	
6/12/2019	0.046	
8/20/2019	0.05	
10/9/2019	0.045	
3/18/2020	0.04	
8/28/2020	0.044	
9/22/2020	0.04	
3/1/2021	0.043	
8/18/2021	0.033	
2/9/2022		0.038
8/31/2022		0.026

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.025	
3/5/2012	0.014	
9/5/2012	0.0095	
2/6/2013	0.0094	
8/13/2013	0.13	
2/5/2014	0.066	
8/4/2014	0.043	
2/3/2015	0.031	
8/3/2015	0.039 (D)	
2/16/2016	0.038	
8/31/2016	0.0286	
11/30/2016	0.0258	
2/23/2017	0.0278	
5/9/2017	0.0308	
7/18/2017	0.0407	
10/18/2017	0.049	
2/21/2018	0.0285	
8/7/2018	0.029	
2/26/2019	0.026	
6/13/2019	0.021	
8/21/2019	0.02	
10/10/2019	0.018	
3/17/2020	0.024	
8/28/2020	0.014	
9/22/2020	0.014	
3/2/2021	0.015	
8/18/2021	0.014	
2/8/2022		0.013
8/30/2022		0.01

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	0.03	
1/4/2011	0.065	
2/17/2011	0.061	
3/11/2011	0.066	
3/28/2011	0.04	
9/7/2011	0.041	
3/4/2012	0.046	
9/10/2012	0.084	
2/6/2013	0.042	
8/14/2013	0.042	
2/4/2014	0.046	
8/4/2014	0.027	
2/2/2015	0.02	
8/3/2015	0.017 (D)	
2/16/2016	0.032	
9/1/2016	0.0377	
11/30/2016	0.0148	
2/24/2017	0.029	
5/10/2017	0.0182	
7/18/2017	0.0187	
10/17/2017	0.0157	
2/20/2018	0.0151	
8/8/2018	0.019	
2/26/2019	0.017	
6/12/2019	0.017	
8/19/2019	0.02	
10/10/2019	0.018	
3/18/2020	0.038	
8/28/2020	0.026	
9/22/2020	0.026	
3/1/2021	0.035	
8/18/2021	0.04	
2/8/2022		0.031
8/30/2022		0.022

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	0.02	
3/5/2012	0.048	
9/5/2012	0.07	
2/5/2013	0.068	
8/14/2013	0.036	
2/5/2014	0.044	
8/4/2014	0.058	
2/3/2015	0.033	
8/3/2015	0.037 (D)	
2/16/2016	0.04	
9/1/2016	0.0345	
12/1/2016	0.0342	
2/24/2017	0.0347	
5/10/2017	0.0363	
7/17/2017	0.0274	
10/16/2017	0.0151	
2/21/2018	0.0174	
8/7/2018	0.015	
2/26/2019	0.014	
6/13/2019	0.014	
8/21/2019	0.014	
10/9/2019	0.015	
3/18/2020	0.015	
8/27/2020	0.013	
9/23/2020	0.012	
3/2/2021	0.011	
8/18/2021	0.013	
2/9/2022		0.011
8/30/2022		0.01

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.025	
11/18/2009	0.025	
1/5/2010	0.018	
3/3/2010	0.022	
9/7/2010	0.019	
3/10/2011	0.017	
9/8/2011	0.019	
3/5/2012	0.027	
9/5/2012	0.04	
2/5/2013	0.056	
8/13/2013	0.07	
2/4/2014	0.051	
8/5/2014	0.041	
2/3/2015	0.04	
8/4/2015	0.042	
2/16/2016	0.068	
9/1/2016	0.0536	
11/29/2016	0.0459	
2/23/2017	0.0581	
5/10/2017	0.0873	
7/18/2017	0.0994	
10/18/2017	0.0757	
2/19/2018	0.0703	
8/6/2018	0.076	
2/25/2019	0.045	
6/13/2019	0.062	
8/20/2019	0.06	
10/8/2019	0.054	
3/17/2020	0.031	
8/27/2020	0.045	
9/23/2020	0.044	
3/3/2021	0.043	
8/18/2021	0.035	
2/8/2022		0.03
8/30/2022		0.028

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	7.5E-05 (J)	
2/2/2015	0.00023 (J)	
8/4/2015	<0.003 (D)	
2/16/2016	<0.003	
8/31/2016	0.0001 (J)	
11/29/2016	<0.003	
2/23/2017	<0.003	
5/9/2017	8E-05 (J)	
7/18/2017	<0.003	
10/17/2017	0.0001 (J)	
2/21/2018	<0.003	
8/7/2018	7.4E-05 (J)	
2/26/2019	7.5E-05 (J)	
6/13/2019	<0.003	
8/20/2019	0.0001 (J)	
10/9/2019	0.00013 (J)	
3/17/2020	7.6E-05 (J)	
8/27/2020	0.00024 (J)	
9/22/2020	0.00021 (J)	
3/1/2021	0.00023 (J)	
8/18/2021	0.0003 (J)	
2/8/2022		0.00032 (J)
8/30/2022		0.00037 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/6/2012	<0.003	
9/11/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	<0.003	
2/2/2015	<0.003	
8/4/2015	<0.003	
2/17/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	<0.003	
2/22/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	7E-05 (J)	
2/26/2019	5.3E-05 (J)	
6/12/2019	<0.003	
8/20/2019	0.00017 (J)	
10/9/2019	0.00014 (J)	
3/18/2020	0.00012 (J)	
8/28/2020	0.0002 (J)	
9/22/2020	0.00021 (J)	
3/1/2021	0.00032 (J)	
8/18/2021	0.00022 (J)	
2/9/2022		0.00023 (J)
8/31/2022		0.00023 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	0.0011 (J)	
2/3/2015	0.00061 (J)	
8/3/2015	0.00051 (JD)	
2/16/2016	0.00084 (J)	
8/31/2016	0.0003 (J)	
11/30/2016	0.0004 (J)	
2/23/2017	0.0003 (J)	
5/9/2017	0.0002 (J)	
7/18/2017	0.0002 (J)	
10/18/2017	0.0004 (J)	
2/21/2018	<0.003	
8/7/2018	0.00026 (J)	
2/26/2019	0.00038 (J)	
6/13/2019	0.00051 (J)	
8/21/2019	0.00046 (J)	
10/10/2019	0.00039 (J)	
3/17/2020	0.00095 (J)	
8/28/2020	0.0005 (J)	
9/22/2020	0.00042 (J)	
3/2/2021	0.00081	
8/18/2021	0.0011	
2/8/2022		0.001
8/30/2022		0.00056

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/4/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/14/2013	<0.003	
2/4/2014	<0.003	
8/4/2014	<0.003	
2/2/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	<0.003	
11/30/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019	<0.003	
6/12/2019	<0.003	
8/19/2019	<0.003	
10/10/2019	<0.003	
3/18/2020	<0.003	
8/28/2020	<0.003	
9/22/2020	5.8E-05 (J)	
3/1/2021	6E-05 (J)	
8/18/2021	0.00011 (J)	
2/8/2022		8.5E-05 (J)
8/30/2022		7.2E-05 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/14/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	0.00026 (J)	
2/3/2015	0.00023 (J)	
8/3/2015	0.00046 (JD)	
2/16/2016	0.00048 (J)	
9/1/2016	0.0005 (J)	
12/1/2016	0.0003 (J)	
2/24/2017	0.0002 (J)	
5/10/2017	0.0003 (J)	
7/17/2017	0.0004 (J)	
10/16/2017	0.0006 (J)	
2/21/2018	<0.003	
8/7/2018	0.00096 (J)	
2/26/2019	0.0015 (J)	
6/13/2019	0.0015 (J)	
8/21/2019	0.0028 (J)	
10/9/2019	0.0022 (J)	
3/18/2020	0.0028 (J)	
8/27/2020	0.0023 (J)	
9/23/2020	0.0023 (J)	
3/2/2021	0.0037	
8/18/2021	0.0033	
2/9/2022		0.0036
8/30/2022		0.0032

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/5/2013	<0.0025	
8/13/2013	<0.0025	
2/4/2014	<0.0025	
8/5/2014	<0.0025	
2/2/2015	<0.0025	
8/4/2015	<0.0025 (D)	
2/16/2016	<0.0025	
8/31/2016	<0.0025	
11/29/2016	8E-05 (J)	
2/23/2017	<0.0025	
5/9/2017	<0.0025	
7/18/2017	<0.0025	
10/17/2017	<0.0025	
2/21/2018	<0.0025	
8/7/2018	<0.0025	
2/26/2019	<0.0025	
6/13/2019	<0.0025	
8/20/2019	<0.0025	
10/9/2019	<0.0025	
3/17/2020	<0.0025	
8/27/2020	0.00012 (J)	
9/22/2020	0.00016 (J)	
3/1/2021	0.00013 (J)	
8/18/2021	0.00017 (J)	
2/8/2022		0.00019 (J)
8/30/2022		0.00026 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.0005	
1/4/2011	<0.0005	
2/17/2011	<0.0005	
3/11/2011	<0.0005	
3/28/2011	<0.0005	
9/7/2011	<0.0005	
3/6/2012	<0.0005	
9/11/2012	<0.0005	
2/6/2013	<0.0005	
8/13/2013	<0.0005	
2/4/2014	<0.0005	
8/5/2014	<0.0005	
2/2/2015	<0.0005	
8/4/2015	<0.0005	
2/17/2016	<0.0005	
8/31/2016	0.0001 (J)	
11/28/2016	0.0001 (J)	
2/22/2017	<0.0005	
5/10/2017	<0.0005	
7/18/2017	<0.0005	
10/17/2017	<0.0005	
2/20/2018	<0.0005	
8/8/2018	<0.0005	
2/26/2019	<0.0005	
6/12/2019	<0.0005	
8/20/2019	<0.0005	
10/9/2019	<0.0005	
3/18/2020	<0.0005	
8/28/2020	0.00015 (J)	
9/22/2020	0.00016 (J)	
3/1/2021	0.00016 (J)	
8/18/2021	0.00016 (J)	
2/9/2022		<0.0005
8/31/2022		0.00012 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/6/2013	<0.0025	
8/13/2013	<0.0025	
2/5/2014	<0.0025	
8/4/2014	0.00034 (J)	
2/3/2015	<0.0025	
8/3/2015	<0.0025 (D)	
2/16/2016	0.00025 (J)	
8/31/2016	<0.0025	
11/30/2016	<0.0025	
2/23/2017	<0.0025	
5/9/2017	<0.0025	
7/18/2017	<0.0025	
10/18/2017	<0.0025	
2/21/2018	<0.0025	
8/7/2018	<0.0025	
2/26/2019	0.00011 (J)	
6/13/2019	0.00021 (J)	
8/21/2019	<0.0025	
10/10/2019	0.00018 (J)	
3/17/2020	0.00037 (J)	
8/28/2020	0.00014 (J)	
9/22/2020	0.00013 (J)	
3/2/2021	0.00021 (J)	
8/18/2021	0.00022 (J)	
2/8/2022		0.00018 (J)
8/30/2022		0.00016 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.0005	
1/4/2011	<0.0005	
2/17/2011	<0.0005	
3/11/2011	<0.0005	
3/28/2011	<0.0005	
9/7/2011	<0.0005	
3/4/2012	<0.0005	
9/10/2012	<0.0005	
2/6/2013	<0.0005	
8/14/2013	<0.0005	
2/4/2014	<0.0005	
8/4/2014	<0.0005	
2/2/2015	<0.0005	
8/3/2015	<0.0005 (D)	
2/16/2016	<0.0005	
9/1/2016	0.0001 (J)	
11/30/2016	<0.0005	
2/24/2017	<0.0005	
5/10/2017	<0.0005	
7/18/2017	<0.0005	
10/17/2017	<0.0005	
2/20/2018	<0.0005	
8/8/2018	<0.0005	
2/26/2019	<0.0005	
6/12/2019	<0.0005	
8/19/2019	<0.0005	
10/10/2019	<0.0005	
3/18/2020	<0.0005	
8/28/2020	<0.0005	
9/22/2020	<0.0005	
3/1/2021	<0.0005	
8/18/2021	<0.0005	
2/8/2022		<0.0005
8/30/2022		0.00011 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	0.00045 (J)	
2/3/2015	<0.001	
8/3/2015	0.00046 (JD)	
2/16/2016	0.00097 (J)	
9/1/2016	0.0005 (J)	
12/1/2016	0.0004 (J)	
2/24/2017	0.0003 (J)	
5/10/2017	0.0003 (J)	
7/17/2017	0.0004 (J)	
10/16/2017	0.0006 (J)	
2/21/2018	<0.001	
8/7/2018	0.00083 (J)	
2/26/2019	0.00081 (J)	
6/13/2019	0.00073 (J)	
8/21/2019	0.0012 (J)	
10/9/2019	0.0011 (J)	
3/18/2020	0.0012 (J)	
8/27/2020	0.00091 (J)	
9/23/2020	0.00094 (J)	
3/2/2021	0.0011	
8/18/2021	0.001	
2/9/2022		0.001
8/30/2022		0.00098

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0029	
9/11/2007	0.0084	
3/20/2008	0.0027	
8/27/2008	0.0026	
3/3/2009	0.0022	
11/18/2009	0.0036	
3/3/2010	<0.005	
9/8/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	<0.005	
2/5/2014	0.0059	
8/5/2014	<0.005	
2/4/2015	<0.005	
8/3/2015	0.0011 (J)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/8/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
6/12/2019	<0.005	
8/19/2019	<0.005	
10/8/2019	<0.005	
3/17/2020	<0.005	
8/26/2020	<0.005	
9/22/2020	<0.005	
3/2/2021	<0.005	
8/20/2021	<0.005	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	0.0028	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0012 (J)	
11/29/2016	0.0009 (J)	
2/23/2017	0.001 (J)	
5/9/2017	0.0011 (J)	
7/18/2017	0.0008 (J)	
10/17/2017	0.001 (J)	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	0.0009 (J)	
8/20/2019	0.0011 (J)	
10/9/2019	0.0012 (J)	
3/17/2020	0.001 (J)	
8/27/2020	0.0013 (J)	
9/22/2020	0.0012 (J)	
3/1/2021	0.0012 (J)	
8/18/2021	0.0015 (J)	
2/8/2022		0.002 (J)
8/30/2022		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0017	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/10/2017	0.0008 (J)	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	<0.005	
8/20/2019	<0.005	
10/9/2019	0.00059 (J)	
3/18/2020	0.0004 (J)	
8/28/2020	0.00057 (J)	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/9/2022		<0.005
8/31/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0019	
2/5/2014	0.0023	
8/4/2014	0.002	
2/3/2015	0.0014	
8/3/2015	0.0012 (JD)	
2/16/2016	0.0017	
8/31/2016	0.0013 (J)	
11/30/2016	0.001 (J)	
2/23/2017	0.0012 (J)	
5/9/2017	0.0016 (J)	
7/18/2017	0.0009 (J)	
10/18/2017	0.001 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.00073 (J)	
8/21/2019	0.001 (J)	
10/10/2019	0.0014 (J)	
3/17/2020	0.0013 (J)	
8/28/2020	0.00088 (J)	
9/22/2020	0.0011 (J)	
3/2/2021	0.001 (J)	
8/18/2021	<0.005	
2/8/2022		0.0011 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0062	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/30/2016	0.0013 (J)	
2/24/2017	<0.005	
5/10/2017	0.0007 (J)	
7/18/2017	0.0011 (J)	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	<0.005	
8/19/2019	0.00051 (J)	
10/10/2019	0.00057 (J)	
3/18/2020	<0.005	
8/28/2020	<0.005	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/14/2013	0.0016	
2/5/2014	0.0018	
8/4/2014	0.0029	
2/3/2015	0.0017	
8/3/2015	0.0028 (D)	
2/16/2016	0.0028	
9/1/2016	0.0021 (J)	
12/1/2016	0.0017 (J)	
2/24/2017	0.0018 (J)	
5/10/2017	0.0024 (J)	
7/17/2017	0.0017 (J)	
10/16/2017	0.0023 (J)	
2/21/2018	<0.01	
8/7/2018	0.0024 (J)	
2/26/2019	0.0019 (J)	
6/13/2019	0.0018 (J)	
8/21/2019	0.0024 (J)	
10/9/2019	0.0024 (J)	
3/18/2020	0.0023 (J)	
8/27/2020	0.0022 (J)	
9/23/2020	0.002 (J)	
3/2/2021	0.0021 (J)	
8/18/2021	0.0023 (J)	
2/9/2022		0.0022 (J)
8/30/2022		0.0019 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	0.0018	
3/5/2012	<0.01	
9/5/2012	0.0013	
2/5/2013	<0.01	
8/13/2013	0.0025	
2/4/2014	0.0013	
8/5/2014	0.0018	
2/3/2015	0.0015	
8/4/2015	0.0028	
2/16/2016	0.001 (J)	
9/1/2016	0.0015 (J)	
11/29/2016	0.0014 (J)	
2/23/2017	0.0017 (J)	
5/10/2017	0.0015 (J)	
7/18/2017	0.0012 (J)	
10/18/2017	0.0012 (J)	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019	<0.01	
6/13/2019	0.00089 (J)	
8/20/2019	0.0017 (J)	
10/8/2019	0.0014 (J)	
3/17/2020	0.0013 (J)	
8/27/2020	0.0012 (J)	
9/23/2020	0.0015 (J)	
3/3/2021	0.0014 (J)	
8/18/2021	0.0015 (J)	
2/8/2022		0.0017 (J)
8/30/2022		0.0016 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	
5/1/2007	0.0067	
9/11/2007	<0.005	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	<0.005	
11/18/2009	<0.005	
3/3/2010	0.0027	
9/8/2010	0.007	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	0.0032	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	0.0045	
2/5/2014	<0.005	
8/5/2014	0.0027	
2/4/2015	0.0016	
8/3/2015	0.002	
2/16/2016	0.0027	
8/31/2016	0.0053 (J)	
11/28/2016	0.0036 (J)	
2/22/2017	0.0049 (J)	
5/8/2017	0.0059 (J)	
7/17/2017	0.0046 (J)	
10/16/2017	0.0034 (J)	
2/19/2018	<0.005	
8/6/2018	0.003 (J)	
2/25/2019	0.001 (J)	
6/12/2019	0.003 (J)	
8/19/2019	0.0035 (J)	
10/8/2019	0.0039 (J)	
3/17/2020	0.003 (J)	
8/26/2020	0.2 (o)	
9/22/2020	0.16 (o)	
3/2/2021	0.21 (o)	
8/20/2021	0.074 (o)	
2/8/2022		0.072 (o)
8/30/2022		0.075 (o)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.015	
3/5/2012	<0.005	
9/5/2012	0.0018	
2/5/2013	0.0013	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	0.0015	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	0.0006 (J)	
11/29/2016	<0.005	
2/23/2017	0.0009 (J)	
5/9/2017	0.0008 (J)	
7/18/2017	0.0032 (J)	
10/17/2017	0.0007 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.00033 (J)	
8/20/2019	0.00079 (J)	
10/9/2019	0.00064 (J)	
3/17/2020	0.00054 (J)	
8/27/2020	0.00081 (J)	
9/22/2020	0.0008 (J)	
3/1/2021	0.00083 (J)	
8/18/2021	0.0014 (J)	
2/8/2022		0.0019 (J)
8/30/2022		0.00087 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.038	
1/4/2011	0.049	
2/17/2011	0.044	
3/11/2011	0.038	
3/28/2011	0.029	
9/7/2011	0.031	
3/6/2012	0.021	
9/11/2012	0.017	
2/6/2013	0.025	
8/13/2013	0.023	
2/4/2014	0.019	
8/5/2014	0.023	
2/2/2015	0.022	
8/4/2015	0.021	
2/17/2016	0.024	
8/31/2016	0.0239	
11/28/2016	0.0189	
2/22/2017	0.0184	
5/10/2017	0.0213	
7/18/2017	0.0261	
10/17/2017	0.0182	
2/20/2018	<0.005	
8/8/2018	0.014	
2/26/2019	0.029	
6/12/2019	0.013	
8/20/2019	0.014	
10/9/2019	0.024	
3/18/2020	0.019	
8/28/2020	0.0072	
9/22/2020	0.0054	
3/1/2021	0.00074 (J)	
8/18/2021	0.00066 (J)	
2/9/2022		0.00085 (J)
8/31/2022		0.0036 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.01	
8/21/2019	0.0016 (J)	
10/10/2019	<0.005	
3/17/2020	0.011	
8/28/2020	0.0041 (J)	
9/22/2020	0.0021 (J)	
3/2/2021	0.0086	
8/18/2021	0.01	
2/8/2022		0.0074
8/30/2022		0.0021 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0036	
2/17/2011	0.0035	
3/11/2011	0.0053	
3/28/2011	<0.005	
9/7/2011	0.0033	
3/4/2012	0.0032	
9/10/2012	0.0067	
2/6/2013	0.0024	
8/14/2013	0.0014	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.0082	
9/1/2016	0.0023 (J)	
11/30/2016	0.0008 (J)	
2/24/2017	0.0025 (J)	
5/10/2017	<0.005	
7/18/2017	0.0005 (J)	
10/17/2017	0.0006 (J)	
2/20/2018	<0.005	
8/8/2018	0.001 (J)	
2/26/2019	<0.005	
6/12/2019	0.00078 (J)	
8/19/2019	0.001 (J)	
10/10/2019	0.00099 (J)	
3/18/2020	0.0031 (J)	
8/28/2020	0.00049 (J)	
9/22/2020	0.00039 (J)	
3/1/2021	0.0016 (J)	
8/18/2021	0.0027 (J)	
2/8/2022		0.0034 (J)
8/30/2022		0.002 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
12/1/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
8/21/2019	0.00034 (J)	
10/9/2019	0.00031 (J)	
3/18/2020	0.00044 (J)	
8/27/2020	<0.005	
9/23/2020	<0.005	
3/2/2021	0.00039 (J)	
8/18/2021	0.00053 (J)	
2/9/2022		0.00064 (J)
8/30/2022		0.00077 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	0.0014	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
6/13/2019	<0.005	
8/20/2019	<0.005	
10/8/2019	<0.005	
3/17/2020	<0.005	
8/27/2020	<0.005	
9/23/2020	<0.005	
3/3/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0047	
9/11/2007	<0.005	
3/20/2008	<0.005	
8/27/2008	0.0074	
3/3/2009	<0.005	
11/18/2009	0.0029	
3/3/2010	0.005	
9/8/2010	<0.005	
3/10/2011	0.0029	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	<0.005	
2/5/2014	<0.005	
8/5/2014	0.005	
2/4/2015	0.0025 (J)	
8/3/2015	0.0014 (J)	
2/16/2016	0.0011 (J)	
2/22/2017	0.0011 (J)	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
6/12/2019	0.00034 (J)	
10/8/2019	0.00041 (J)	
3/17/2020	0.00078 (J)	
9/22/2020	0.0041 (J)	
3/2/2021	0.0027 (J)	
8/20/2021	0.0012 (J)	
2/8/2022		0.0012 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	0.0031 (J)	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
10/9/2019	0.00079 (J)	
3/17/2020	0.0004 (J)	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	0.00067 (J)	
2/8/2022		0.00072 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
2/22/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	<0.005	
10/9/2019	0.00024 (J)	
3/18/2020	<0.005	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/9/2022		<0.005
8/31/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	0.016	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	0.0012 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.00082 (J)	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
10/10/2019	0.00033 (J)	
3/17/2020	0.00039 (J)	
9/22/2020	<0.005	
3/2/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0049	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.00088 (J)	
2/24/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	0.00025 (J)	
10/10/2019	<0.005	
3/18/2020	0.00021 (J)	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	0.0015 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/24/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.00049 (J)	
10/9/2019	0.00087 (J)	
3/18/2020	0.00097 (J)	
9/23/2020	<0.005	
3/2/2021	<0.005	
8/18/2021	0.0022 (J)	
2/9/2022		0.0014 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.0028	
11/18/2009	0.0027	
1/5/2010	0.0035	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	0.0012 (J)	
2/3/2015	0.0013 (J)	
8/4/2015	0.0043 (J)	
2/16/2016	<0.005	
2/23/2017	0.0018 (J)	
2/19/2018	<0.005	
8/6/2018	0.0016 (J)	
2/25/2019	0.0016 (J)	
6/13/2019	0.0011 (J)	
10/8/2019	0.0011 (J)	
3/17/2020	0.00091 (J)	
9/23/2020	<0.005	
3/3/2021	<0.005	
8/18/2021	0.00083 (J)	
2/8/2022		0.0008 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.001	
9/11/2007	<0.001	
3/20/2008	<0.001	
8/27/2008	<0.001	
3/3/2009	<0.001	
11/18/2009	<0.001	
3/3/2010	<0.001	
9/8/2010	<0.001	
3/10/2011	<0.001	
9/8/2011	<0.001	
3/5/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/12/2013	<0.001	
2/5/2014	<0.001	
8/5/2014	<0.001	
2/4/2015	<0.001	
8/3/2015	<0.001	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/8/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/19/2018	<0.001	
8/6/2018	<0.001	
2/25/2019	<0.001	
6/12/2019	<0.001	
8/19/2019	<0.001	
10/8/2019	<0.001	
3/17/2020	<0.001	
8/26/2020	<0.001	
9/22/2020	0.0001 (J)	
3/2/2021	<0.001	
8/20/2021	<0.001	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
8/5/2014	<0.001	
2/2/2015	<0.001	
8/4/2015	<0.001 (D)	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/29/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019	<0.001	
6/13/2019	<0.001	
8/20/2019	<0.001	
10/9/2019	5.2E-05 (J)	
3/17/2020	<0.001	
8/27/2020	6.7E-05 (J)	
9/22/2020	<0.001	
3/1/2021	<0.001	
8/18/2021	<0.001	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/6/2012	<0.001	
9/11/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
8/5/2014	<0.001	
2/2/2015	<0.001	
8/4/2015	<0.001	
2/17/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/10/2017	0.0001 (J)	
7/18/2017	7E-05 (J)	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019	<0.001	
6/12/2019	<0.001	
8/20/2019	6.1E-05 (J)	
10/9/2019	5.7E-05 (J)	
3/18/2020	<0.001	
8/28/2020	8.4E-05 (J)	
9/22/2020	8.2E-05 (J)	
3/1/2021	7E-05 (J)	
8/18/2021	<0.001	
2/9/2022		<0.001
8/31/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
8/31/2016	0.0001 (J)	
11/30/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/18/2017	8E-05 (J)	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019	<0.001	
6/13/2019	<0.001	
8/21/2019	8.2E-05 (J)	
10/10/2019	<0.001	
3/17/2020	0.00015 (J)	
8/28/2020	5.4E-05 (J)	
9/22/2020	6.4E-05 (J)	
3/2/2021	9.6E-05 (J)	
8/18/2021	<0.001	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/4/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/14/2013	<0.001	
2/4/2014	<0.001	
8/4/2014	<0.001	
2/2/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
9/1/2016	<0.001	
11/30/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019	<0.001	
6/12/2019	<0.001	
8/19/2019	<0.001	
10/10/2019	<0.001	
3/18/2020	<0.001	
8/28/2020	<0.001	
9/22/2020	4.1E-05 (J)	
3/1/2021	<0.001	
8/18/2021	<0.001	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
9/1/2016	<0.001	
12/1/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019	<0.001	
6/13/2019	<0.001	
8/21/2019	7E-05 (J)	
10/9/2019	5.9E-05 (J)	
3/18/2020	7.9E-05 (J)	
8/27/2020	4.9E-05 (J)	
9/23/2020	0.00019 (J)	
3/2/2021	5.4E-05 (J)	
8/18/2021	<0.001	
2/9/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.0002	
9/11/2007	<0.0002	
3/20/2008	<0.0002	
8/27/2008	<0.0002	
3/3/2009	<0.0002	
11/18/2009	<0.0002	
3/3/2010	<0.0002	
9/8/2010	<0.0002	
3/10/2011	<0.0002	
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/10/2012	<0.0002	
2/6/2013	<0.0002	
8/12/2013	<0.0002	
2/5/2014	<0.0002	
8/5/2014	<0.0002	
2/4/2015	<0.0002	
8/3/2015	<0.0002	
2/16/2016	1.36E-05 (J)	
8/31/2016	<0.0002	
11/28/2016	<0.0002	
2/22/2017	<0.0002	
5/8/2017	<0.0002	
7/17/2017	<0.0002	
10/16/2017	<0.0002	
2/19/2018	<0.0002	
8/6/2018	<0.0002	
2/25/2019	7.4E-05 (J)	
6/12/2019	<0.0002	
8/19/2019	<0.0002	
10/8/2019	<0.0002	
5/6/2020	<0.0002	
8/26/2020	<0.0002	
9/22/2020	<0.0002	
3/2/2021	<0.0002	
8/20/2021	<0.0002	
2/8/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/2/2015	<0.0002	
8/4/2015	<0.0002 (D)	
2/16/2016	<0.0002	
8/31/2016	<0.0002	
11/29/2016	<0.0002	
2/23/2017	<0.0002	
5/9/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019	5.9E-05 (J)	
6/13/2019	<0.0002	
8/20/2019	<0.0002	
10/9/2019	<0.0002	
5/6/2020	<0.0002	
8/27/2020	<0.0002	
9/22/2020	<0.0002	
3/1/2021	<0.0002	
8/18/2021	<0.0002	
2/8/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.0002	
1/4/2011	<0.0002	
2/17/2011	<0.0002	
3/11/2011	<0.0002	
3/28/2011	<0.0002	
9/7/2011	<0.0002	
3/6/2012	<0.0002	
9/11/2012	<0.0002	
2/6/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/2/2015	<0.0002	
8/4/2015	<0.0002	
2/17/2016	<0.0002	
8/31/2016	<0.0002	
11/28/2016	<0.0002	
2/22/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/20/2018	<0.0002	
8/8/2018	<0.0002	
2/26/2019	7.1E-05 (J)	
6/12/2019	<0.0002	
8/20/2019	<0.0002	
10/9/2019	<0.0002	
5/7/2020	<0.0002	
8/28/2020	<0.0002	
9/22/2020	<0.0002	
3/1/2021	<0.0002	
8/18/2021	<0.0002	
2/9/2022		<0.0002
8/31/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/6/2013	<0.0002	
8/13/2013	<0.0002	
2/5/2014	<0.0002	
8/4/2014	<0.0002	
2/3/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	1.34E-05 (J)	
8/31/2016	<0.0002	
11/30/2016	<0.0002	
2/23/2017	<0.0002	
5/9/2017	<0.0002	
7/18/2017	<0.0002	
10/18/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019	6.4E-05 (J)	
6/13/2019	<0.0002	
8/21/2019	<0.0002	
10/10/2019	0.00043 (J)	
5/7/2020	<0.0002	
8/28/2020	<0.0002	
9/22/2020	<0.0002	
3/2/2021	<0.0002	
8/18/2021	<0.0002	
2/8/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.0002	
1/4/2011	<0.0002	
2/17/2011	<0.0002	
3/11/2011	<0.0002	
3/28/2011	<0.0002	
9/7/2011	<0.0002	
3/4/2012	<0.0002	
9/10/2012	<0.0002	
2/6/2013	0.00014	
8/14/2013	<0.0002	
2/4/2014	<0.0002	
8/4/2014	<0.0002	
2/2/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	<0.0002	
9/1/2016	<0.0002	
11/30/2016	<0.0002	
2/24/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/20/2018	<0.0002	
8/8/2018	<0.0002	
2/26/2019	5.8E-05 (J)	
6/12/2019	<0.0002	
8/19/2019	<0.0002	
10/10/2019	<0.0002	
5/7/2020	<0.0002	
8/28/2020	<0.0002	
9/22/2020	<0.0002	
3/1/2021	<0.0002	
8/18/2021	<0.0002	
2/8/2022		<0.0002
8/30/2022		0.00014 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/14/2013	<0.0002	
2/5/2014	<0.0002	
8/4/2014	<0.0002	
2/3/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	<0.0002	
9/1/2016	<0.0002	
12/1/2016	<0.0002	
2/24/2017	<0.0002	
5/10/2017	<0.0002	
7/17/2017	<0.0002	
10/16/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019	6E-05 (J)	
6/13/2019	<0.0002	
8/21/2019	<0.0002	
10/9/2019	<0.0002	
5/7/2020	<0.0002	
8/27/2020	<0.0002	
9/23/2020	<0.0002	
3/2/2021	<0.0002	
8/18/2021	<0.0002	
2/9/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.0002	
11/18/2009	<0.0002	
1/5/2010	<0.0002	
3/3/2010	<0.0002	
9/7/2010	<0.0002	
3/10/2011	<0.0002	
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/3/2015	<0.0002	
8/4/2015	<0.0002	
2/16/2016	1.13E-05 (J)	
9/1/2016	<0.0002	
11/29/2016	<0.0002	
2/23/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/18/2017	<0.0002	
2/19/2018	<0.0002	
8/6/2018	<0.0002	
2/25/2019	6.7E-05 (J)	
6/13/2019	<0.0002	
8/20/2019	<0.0002	
10/8/2019	<0.0002	
5/6/2020	<0.0002	
8/27/2020	<0.0002	
9/23/2020	<0.0002	
3/3/2021	<0.0002	
8/18/2021	<0.0002	
2/8/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0061	
9/11/2007	0.021	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	0.005	
11/18/2009	0.0052	
3/3/2010	0.011	
9/8/2010	0.012	
3/10/2011	0.0032	
9/8/2011	0.0046	
3/5/2012	0.0053	
9/10/2012	0.0074	
2/6/2013	0.0077	
8/12/2013	0.016	
2/5/2014	0.019	
8/5/2014	0.0057	
2/4/2015	0.0055	
8/3/2015	0.0055	
2/16/2016	0.0039	
2/22/2017	0.0051 (J)	
2/19/2018	<0.005	
8/6/2018	0.003 (J)	
2/25/2019	0.0026 (J)	
6/12/2019	0.0038 (J)	
10/8/2019	0.0051 (J)	
3/17/2020	0.0066	
9/22/2020	0.027	
3/2/2021	0.034	
8/20/2021	0.014	
2/8/2022		0.017
8/30/2022		0.015

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.009	
3/5/2012	0.0035	
9/5/2012	0.0027	
2/5/2013	0.0026	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0013 (J)	
2/2/2015	0.0023 (J)	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
2/23/2017	0.0026 (J)	
2/21/2018	0.001 (J)	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	0.00072 (J)	
10/9/2019	0.0015 (J)	
3/17/2020	0.00087 (J)	
9/22/2020	0.0021 (J)	
3/1/2021	0.0024 (J)	
8/18/2021	0.0028 (J)	
2/8/2022		0.0032 (J)
8/30/2022		0.0027 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.0096	
1/4/2011	0.0084	
2/17/2011	0.0088	
3/11/2011	0.0058	
3/28/2011	0.0058	
9/7/2011	0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.003	
2/4/2014	0.0026	
8/5/2014	0.0015 (J)	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
2/22/2017	0.0009 (J)	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	0.0068 (J)	
6/12/2019	0.00043 (J)	
10/9/2019	0.00058 (J)	
3/18/2020	0.00063 (J)	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/9/2022		<0.005
8/31/2022		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.0054	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0032	
2/5/2014	0.0039	
8/4/2014	0.0024 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
10/10/2019	<0.005	
3/17/2020	0.00056 (J)	
9/22/2020	<0.005	
3/2/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	0.0033	
8/4/2014	0.0015 (J)	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/24/2017	0.0021 (J)	
2/20/2018	<0.01	
8/8/2018	0.0012 (J)	
2/26/2019	<0.01	
6/12/2019	0.00082 (J)	
10/10/2019	0.00084 (J)	
3/18/2020	0.0026 (J)	
9/22/2020	0.00077 (J)	
3/1/2021	0.0021 (J)	
8/18/2021	0.0026 (J)	
2/8/2022		0.0017 (J)
8/30/2022		0.0021 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/5/2013	<0.0025	
8/14/2013	0.0032	
2/5/2014	0.0032	
8/4/2014	0.0059	
2/3/2015	0.0013 (J)	
8/3/2015	0.0039 (D)	
2/16/2016	0.0036	
2/24/2017	0.0019 (J)	
2/21/2018	0.0013 (J)	
8/7/2018	0.0019 (J)	
2/26/2019	0.0023 (J)	
6/13/2019	0.0019 (J)	
10/9/2019	0.0019 (J)	
3/18/2020	0.002 (J)	
9/23/2020	0.0012 (J)	
3/2/2021	0.0014 (J)	
8/18/2021	0.0016 (J)	
2/9/2022		0.0014 (J)
8/30/2022		0.00097 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
2/23/2017	0.0015 (J)	
2/19/2018	<0.005	
8/6/2018	0.0026 (J)	
2/25/2019	0.0023 (J)	
6/13/2019	0.0037 (J)	
10/8/2019	0.0021 (J)	
3/17/2020	0.0011 (J)	
9/23/2020	0.0016 (J)	
3/3/2021	0.0016 (J)	
8/18/2021	0.0012 (J)	
2/8/2022		0.001 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0039 (J)	
11/29/2016	0.0033 (J)	
2/23/2017	0.0097 (J)	
5/9/2017	0.0066 (J)	
7/18/2017	0.0021 (J)	
10/17/2017	0.003 (J)	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	0.0014 (J)	
6/13/2019	<0.01	
8/20/2019	0.0022 (J)	
10/9/2019	0.0023 (J)	
3/17/2020	0.0017 (J)	
8/27/2020	0.011	
9/22/2020	0.012	
3/1/2021	0.011	
8/18/2021	0.019	
2/8/2022		0.02
8/30/2022		0.03

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/6/2012	<0.01	
9/11/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01	
2/17/2016	<0.01	
8/31/2016	0.0029 (J)	
11/28/2016	0.0019 (J)	
2/22/2017	0.0015 (J)	
5/10/2017	0.0016 (J)	
7/18/2017	0.0024 (J)	
10/17/2017	0.0028 (J)	
2/20/2018	<0.01	
8/8/2018	0.0025 (J)	
2/26/2019	0.003 (J)	
6/12/2019	0.0034 (J)	
8/20/2019	0.0032 (J)	
10/9/2019	0.0026 (J)	
3/18/2020	0.0032 (J)	
8/28/2020	0.0037 (J)	
9/22/2020	0.0056 (J)	
3/1/2021	0.0043 (J)	
8/18/2021	0.0042 (J)	
2/9/2022		0.0042 (J)
8/31/2022		0.0042 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	0.0057	
2/5/2014	<0.01	
8/4/2014	<0.01	
2/3/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0038 (J)	
11/30/2016	0.0054 (J)	
2/23/2017	0.002 (J)	
5/9/2017	<0.01	
7/18/2017	0.0027 (J)	
10/18/2017	0.0047 (J)	
2/21/2018	<0.01	
8/7/2018	0.0016 (J)	
2/26/2019	0.002 (J)	
6/13/2019	0.0089 (J)	
8/21/2019	0.004 (J)	
10/10/2019	0.0021 (J)	
3/17/2020	0.0096 (J)	
8/28/2020	0.0045 (J)	
9/22/2020	0.0091 (J)	
3/2/2021	0.012	
8/18/2021	0.017	
2/8/2022		0.0091
8/30/2022		0.0068

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	0.011	
2/6/2013	0.011	
8/14/2013	0.013	
2/4/2014	0.017	
8/4/2014	0.0085	
2/2/2015	0.0089	
8/3/2015	0.0067 (D)	
2/16/2016	0.0047 (J)	
9/1/2016	0.0132	
11/30/2016	0.0046 (J)	
2/24/2017	0.0108	
5/10/2017	0.0054 (J)	
7/18/2017	0.0047 (J)	
10/17/2017	0.004 (J)	
2/20/2018	<0.01	
8/8/2018	0.0041 (J)	
2/26/2019	0.0027 (J)	
6/12/2019	0.0029 (J)	
8/19/2019	0.003 (J)	
10/10/2019	0.0024 (J)	
3/18/2020	0.0046 (J)	
8/28/2020	0.0031 (J)	
9/22/2020	0.0032 (J)	
3/1/2021	0.0041 (J)	
8/18/2021	0.0046 (J)	
2/8/2022		0.0044 (J)
8/30/2022		0.0038 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.013	
3/5/2012	0.014	
9/5/2012	0.012	
2/5/2013	0.011	
8/14/2013	0.025	
2/5/2014	0.02	
8/4/2014	0.032	
2/3/2015	0.011	
8/3/2015	0.046 (D)	
2/16/2016	0.022	
9/1/2016	0.0212	
12/1/2016	0.0234	
2/24/2017	0.0154	
5/10/2017	0.0152	
7/17/2017	0.0136	
10/16/2017	0.0242	
2/21/2018	0.0127	
8/7/2018	0.021	
2/26/2019	0.024	
6/13/2019	0.027	
8/21/2019	0.037	
10/9/2019	0.034	
3/18/2020	0.028	
8/27/2020	0.021	
9/23/2020	0.026	
3/2/2021	0.019	
8/18/2021	0.017	
2/9/2022		0.017
8/30/2022		0.019

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
9/1/2016	0.002 (J)	
11/29/2016	0.0017 (J)	
2/23/2017	0.0018 (J)	
5/10/2017	0.0023 (J)	
7/18/2017	0.0046 (J)	
10/18/2017	0.0037 (J)	
2/19/2018	<0.005	
8/6/2018	0.0047 (J)	
2/25/2019	0.0051 (J)	
6/13/2019	0.0048 (J)	
8/20/2019	0.0039 (J)	
10/8/2019	0.0031 (J)	
3/17/2020	0.0026 (J)	
8/27/2020	0.0027 (J)	
9/23/2020	0.0031 (J)	
3/3/2021	0.002 (J)	
8/18/2021	0.0016 (J)	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.001	
9/11/2007	<0.001	
3/20/2008	<0.001	
8/27/2008	<0.001	
3/3/2009	<0.001	
11/18/2009	<0.001	
3/3/2010	<0.001	
9/8/2010	<0.001	
3/10/2011	<0.001	
9/8/2011	<0.001	
3/5/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/12/2013	<0.001	
2/5/2014	<0.001	
8/5/2014	<0.001	
2/4/2015	<0.001	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/8/2017	6E-05 (J)	
7/17/2017	6E-05 (J)	
10/16/2017	7E-05 (J)	
2/19/2018	<0.001	
8/6/2018	<0.001	
2/25/2019	<0.001	
6/12/2019	<0.001	
8/19/2019	5.5E-05 (J)	
10/8/2019	<0.001	
3/17/2020	<0.001	
8/26/2020	<0.001	
9/22/2020	<0.001	
3/2/2021	<0.001	
8/20/2021	<0.001	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/6/2012	<0.001	
9/11/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
2/2/2015	<0.001	
2/17/2016	7E-05 (J)	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/10/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019	<0.001	
6/12/2019	<0.001	
8/20/2019	<0.001	
10/9/2019	<0.001	
3/18/2020	<0.001	
8/28/2020	<0.001	
9/22/2020	<0.001	
3/1/2021	<0.001	
8/18/2021	<0.001	
2/9/2022		<0.001
8/31/2022		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
2/16/2016	<0.001	
9/1/2016	<0.001	
12/1/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019	<0.001	
6/13/2019	<0.001	
8/21/2019	5.3E-05 (J)	
10/9/2019	<0.001	
3/18/2020	<0.001	
8/27/2020	<0.001	
9/23/2020	<0.001	
3/2/2021	<0.001	
8/18/2021	<0.001	
2/9/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0055	
9/11/2007	0.004	
3/20/2008	<0.01	
8/27/2008	0.0029	
3/3/2009	<0.01	
11/18/2009	<0.01	
3/3/2010	<0.01	
9/8/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/12/2013	<0.01	
2/5/2014	<0.01	
8/5/2014	<0.01	
2/4/2015	<0.01	
8/3/2015	0.0013 (J)	
2/16/2016	<0.01	
2/22/2017	<0.01	
5/8/2017	<0.01	
7/17/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019	<0.01	
6/12/2019	0.0032 (J)	
10/8/2019	<0.01	
3/17/2020	<0.01	
9/22/2020	<0.01	
3/2/2021	<0.01	
8/20/2021	<0.01	
2/8/2022		<0.01
8/30/2022		0.0026 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0011 (J)	
2/2/2015	0.0051	
8/4/2015	<0.01 (D)	
2/16/2016	0.00075 (J)	
2/23/2017	<0.01	
5/9/2017	<0.01	
7/18/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	<0.01	
10/9/2019	<0.01	
3/17/2020	<0.01	
9/22/2020	<0.01	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/6/2012	<0.01	
9/11/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01	
2/17/2016	<0.01	
2/22/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019	<0.01	
6/12/2019	0.00079 (J)	
10/9/2019	<0.01	
3/18/2020	<0.01	
9/22/2020	<0.01	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/9/2022		<0.01
8/31/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/5/2014	<0.01	
8/4/2014	<0.01	
2/3/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/23/2017	<0.01	
5/9/2017	<0.01	
7/18/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	0.0021 (J)	
10/10/2019	0.0011 (J)	
3/17/2020	<0.01	
9/22/2020	<0.01	
3/2/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	<0.01	
8/4/2014	<0.01	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/24/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019	<0.01	
6/12/2019	0.00088 (J)	
10/10/2019	<0.01	
3/18/2020	<0.01	
9/22/2020	<0.01	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/14/2013	<0.01	
2/5/2014	<0.01	
8/4/2014	0.0022 (J)	
2/3/2015	<0.01	
8/3/2015	0.0019 (JD)	
2/16/2016	0.0011 (J)	
2/24/2017	<0.01	
5/10/2017	<0.01	
7/17/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	<0.01	
10/9/2019	<0.01	
3/18/2020	<0.01	
9/23/2020	<0.01	
3/2/2021	<0.01	
8/18/2021	<0.01	
2/9/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0015 (J)	
2/3/2015	0.00093 (J)	
8/4/2015	0.0036 (J)	
2/16/2016	0.0011 (J)	
2/23/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	0.0029 (J)	
2/25/2019	<0.01	
6/13/2019	<0.01	
10/8/2019	<0.01	
3/17/2020	0.00098 (J)	
9/23/2020	<0.01	
3/3/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0081	
9/11/2007	0.0049	
3/20/2008	0.004	
8/27/2008	0.0042	
3/3/2009	0.0058	
11/18/2009	0.0038	
3/3/2010	0.0085	
9/8/2010	0.0065	
3/10/2011	0.0029	
9/8/2011	0.004	
3/5/2012	0.0059	
9/10/2012	0.0052	
2/6/2013	0.0038	
8/12/2013	0.0075	
2/5/2014	0.018 (o)	
8/5/2014	0.0037	
2/4/2015	0.0057	
8/3/2015	0.0043	
2/16/2016	0.0024 (J)	
2/22/2017	0.0042 (J)	
5/8/2017	0.0025 (J)	
7/17/2017	0.0032 (J)	
2/19/2018	<0.01	
8/6/2018	0.0037 (J)	
2/25/2019	0.013	
6/12/2019	<0.01	
10/8/2019	0.0078 (J)	
3/17/2020	<0.01	
9/22/2020	0.033	
3/2/2021	0.031	
8/20/2021	0.014	
2/8/2022		0.014
8/30/2022		0.011

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.0048	
3/5/2012	0.0038	
9/5/2012	0.0051	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	0.0037	
8/5/2014	0.0019 (J)	
2/2/2015	0.0051	
8/4/2015	0.0017 (JD)	
2/16/2016	0.0015 (J)	
2/23/2017	0.0024 (J)	
5/9/2017	0.0016 (J)	
7/18/2017	0.0015 (J)	
2/21/2018	<0.01	
8/7/2018	0.0044 (J)	
2/26/2019	0.0022 (J)	
6/13/2019	<0.01	
10/9/2019	0.0078 (J)	
3/17/2020	<0.01	
9/22/2020	0.0029 (J)	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.0047	
1/4/2011	0.0038	
2/17/2011	0.0074	
3/11/2011	0.0038	
3/28/2011	<0.01	
9/7/2011	0.0059	
3/6/2012	0.0032	
9/11/2012	0.0029	
2/6/2013	0.0036	
8/13/2013	0.0066	
2/4/2014	0.011	
8/5/2014	0.0032	
2/2/2015	0.0031	
8/4/2015	0.0017 (J)	
2/17/2016	0.0034	
2/22/2017	0.0024 (J)	
5/10/2017	0.0022 (J)	
7/18/2017	0.0017 (J)	
2/20/2018	<0.01	
8/8/2018	0.0021 (J)	
2/26/2019	0.003 (J)	
6/12/2019	0.0019 (J)	
10/9/2019	0.0069 (J)	
3/18/2020	<0.01	
9/22/2020	0.003 (J)	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/9/2022		<0.01
8/31/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.0064	
3/5/2012	0.0043	
9/5/2012	0.0069	
2/6/2013	<0.01	
8/13/2013	0.011	
2/5/2014	0.026 (o)	
8/4/2014	0.012	
2/3/2015	0.0061	
8/3/2015	0.0037 (D)	
2/16/2016	0.0093	
2/23/2017	0.0031 (J)	
5/9/2017	0.0025 (J)	
7/18/2017	0.0028 (J)	
2/21/2018	0.003 (J)	
8/7/2018	0.0036 (J)	
2/26/2019	0.0033 (J)	
6/13/2019	0.0069 (J)	
10/10/2019	0.0079 (J)	
3/17/2020	<0.01	
9/22/2020	0.0036 (J)	
3/2/2021	0.0069 (J)	
8/18/2021	0.011	
2/8/2022		0.0098 (J)
8/30/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	0.025 (o)	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	0.0034	
8/4/2014	0.0013 (J)	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	0.0017 (J)	
2/24/2017	0.0028 (J)	
5/10/2017	0.0014 (J)	
7/18/2017	0.0015 (J)	
2/20/2018	<0.01	
8/8/2018	0.0033 (J)	
2/26/2019	<0.01	
6/12/2019	<0.01	
10/10/2019	0.006 (J)	
3/18/2020	<0.01	
9/22/2020	<0.01	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	0.0064	
3/5/2012	0.0034	
9/5/2012	0.0035	
2/5/2013	0.0027	
8/14/2013	0.0041	
2/5/2014	0.011	
8/4/2014	0.011	
2/3/2015	0.0044	
8/3/2015	0.011 (D)	
2/16/2016	0.014	
2/24/2017	0.0043 (J)	
5/10/2017	0.0042 (J)	
7/17/2017	0.0055 (J)	
2/21/2018	0.0102	
8/7/2018	0.015	
2/26/2019	0.015	
6/13/2019	0.015	
10/9/2019	0.025	
1/21/2020	0.015	
3/18/2020	0.023	
9/23/2020	0.018	
3/2/2021	0.022	
8/18/2021	0.026	
2/9/2022		0.025
8/30/2022		0.022

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.003	
11/18/2009	<0.01	
1/5/2010	0.0027	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	0.0053	
9/5/2012	0.0033	
2/5/2013	<0.01	
8/13/2013	0.0038	
2/4/2014	0.0046	
8/5/2014	0.0019 (J)	
2/3/2015	0.0026	
8/4/2015	0.0035	
2/16/2016	0.002 (J)	
2/23/2017	0.0038 (J)	
5/10/2017	0.0027 (J)	
7/18/2017	0.0024 (J)	
2/19/2018	<0.01	
8/6/2018	0.004 (J)	
2/25/2019	0.0028 (J)	
6/13/2019	<0.01	
10/8/2019	0.006 (J)	
3/17/2020	<0.01	
9/23/2020	<0.01	
3/3/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01
8/30/2022		<0.01

FIGURE E.

Intawell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	GWA-2	6.968	5.399	8/30/2022	5.39	Yes	30	6.184	0.3941	0	None	No	0.0006268	Param Intra 1 of 2

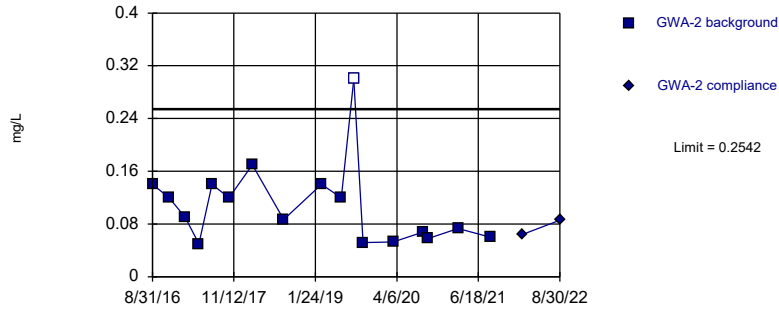
Intawell Prediction Limits Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2542	n/a	8/30/2022	0.086J	No	17	0.3185	0.08513	5.882	None	sqrt(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	8/30/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.58	n/a	8/31/2022	0.1ND	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.4329	n/a	8/30/2022	0.14	No	17	-2.548	0.7843	41.18	Kaplan-Meier	ln(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	8/30/2022	0.05J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	8/30/2022	0.11	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	8/30/2022	0.064J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	6.968	5.399	8/30/2022	5.39	Yes	30	6.184	0.3941	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	6.8	4.49	8/30/2022	5.07	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	8/31/2022	5.23	No	25	n/a	n/a	0	n/a	n/a	0.005664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.572	4.528	8/30/2022	4.85	No	18	25.78	2.447	0	None	x^2	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-4R	6.16	5.07	8/30/2022	5.52	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-5R	5.568	4.599	8/30/2022	4.86	No	19	5.084	0.2272	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-6R	6.79	5.2	8/30/2022	5.82	No	28	n/a	n/a	0	n/a	n/a	0.004674	NP Intra (normality) 1 of 2

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric

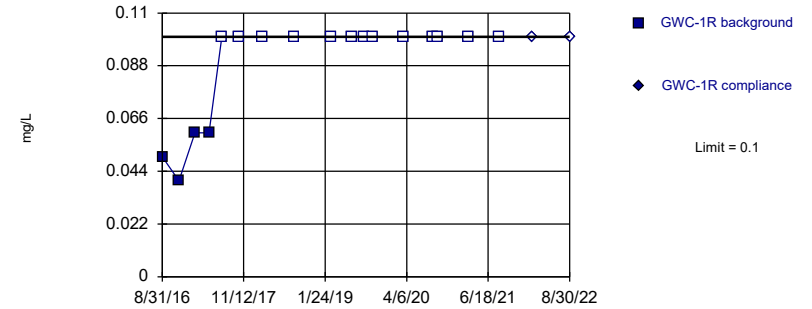


Background Data Summary (based on square root transformation): Mean=0.3185, Std. Dev.=0.08513, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8884, critical = 0.851. Kappa = 2.181 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLS
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

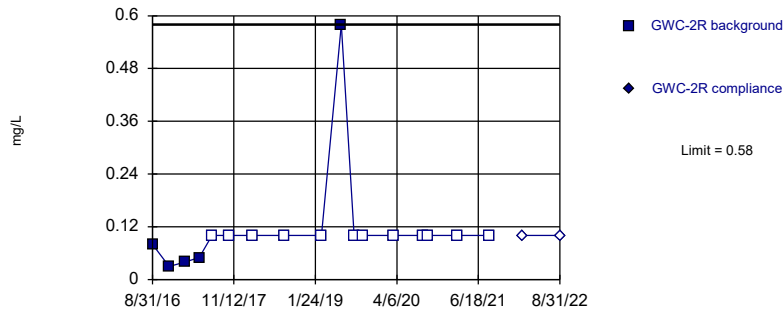


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLS
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

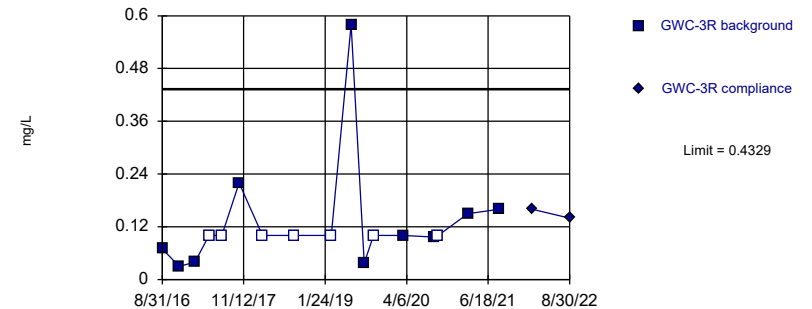


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 70.59% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLS
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric

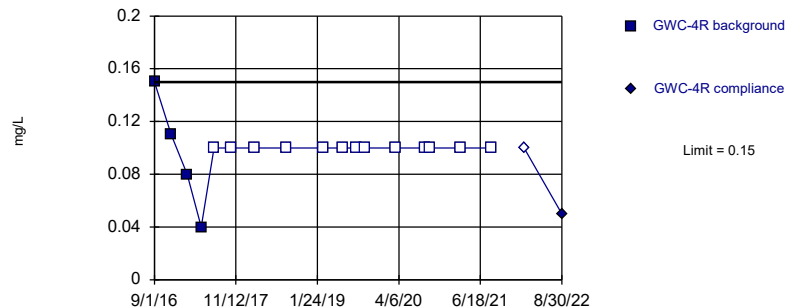


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-2.548, Std. Dev.=0.7843, n=17, 41.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8757, critical = 0.851. Kappa = 2.181 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLS
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

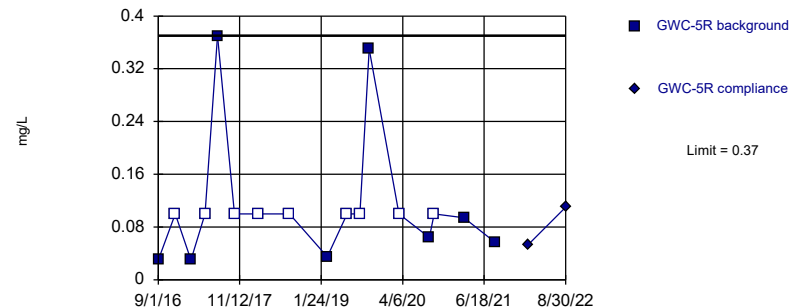


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

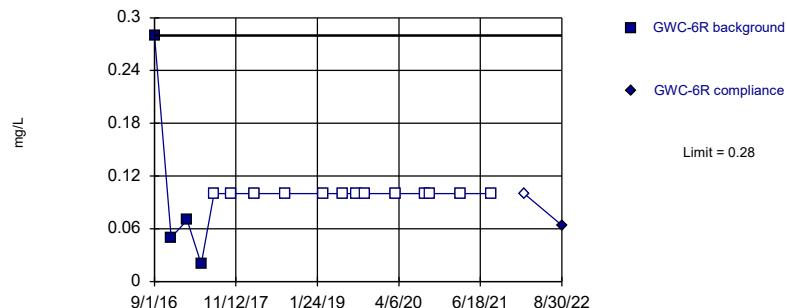


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 52.94% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

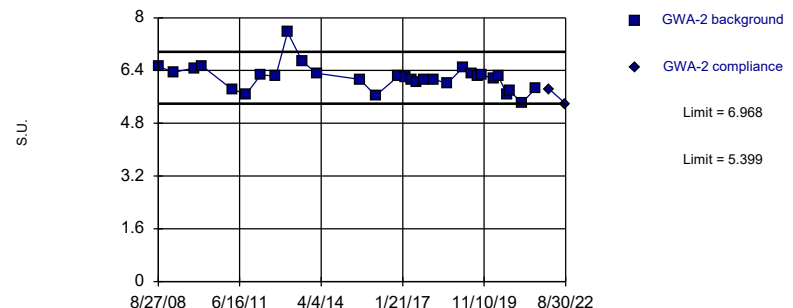


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

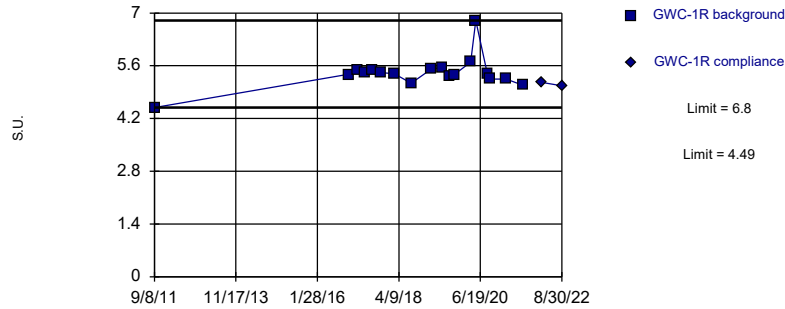
Sanitas™ v.9.6.35 . UG
Exceeds Limits

Prediction Limit
Intrawell Parametric



Within Limits

Prediction Limit Intrawell Non-parametric

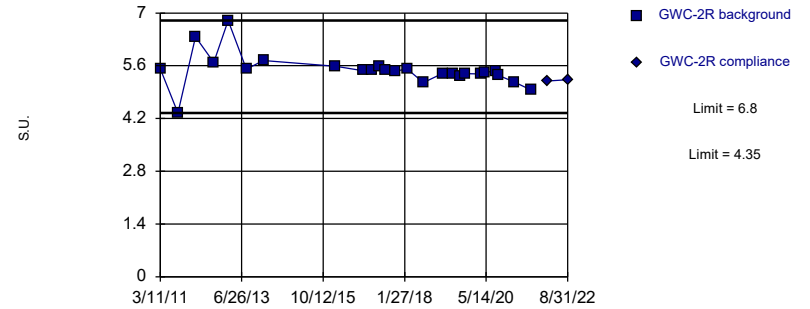


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit Intrawell Non-parametric

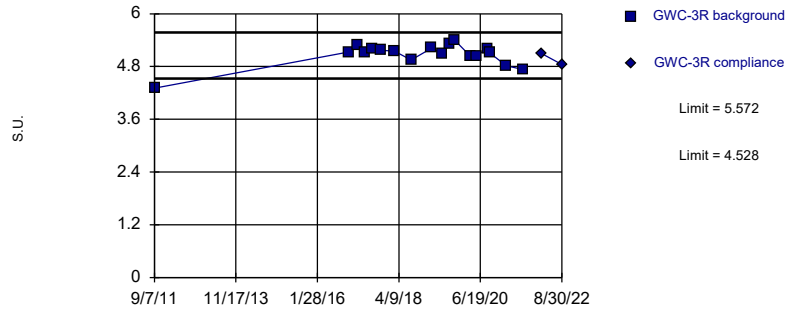


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 25 background values. Well-constituent pair annual alpha = 0.01131. Individual comparison alpha = 0.005664 (1 of 2).

Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit Intrawell Parametric

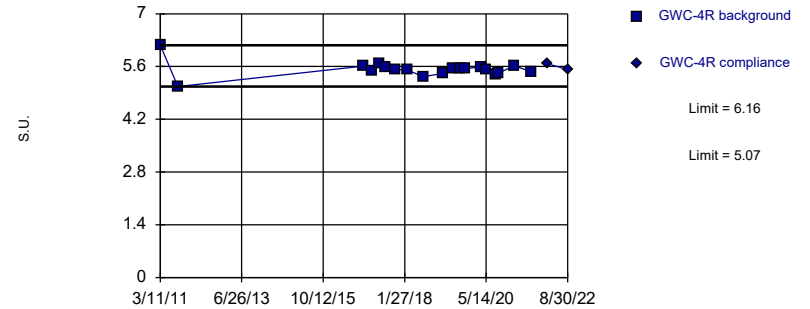


Background Data Summary (based on square transformation): Mean=25.78, Std. Dev.=2.447, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8717, critical = 0.858. Kappa = 2.157 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

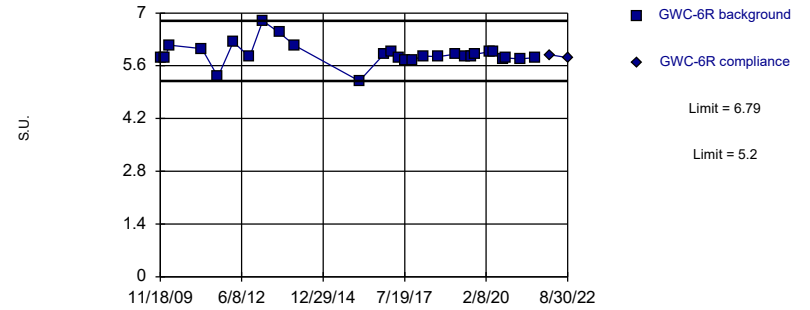


Background Data Summary: Mean=5.084, Std. Dev.=0.2272, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.863. Kappa = 2.132 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/21/2022 4:32 PM View: Appendix III - Intrawell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 28 background values. Well-constituent pair annual alpha = 0.009338. Individual comparison alpha = 0.004674 (1 of 2).

Constituent: pH Analysis Run 10/21/2022 4:32 PM View: Appendix III - Intrawell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
8/31/2016	0.14 (J)	
11/28/2016	0.12 (J)	
2/22/2017	0.09 (J)	
5/8/2017	0.05 (J)	
7/17/2017	0.14 (J)	
10/16/2017	0.12 (J)	
2/19/2018	0.17	
8/6/2018	0.087 (J)	
2/25/2019	0.14 (J)	
6/12/2019	0.12 (J)	
8/19/2019	<0.3	
10/8/2019	0.052 (J)	
3/17/2020	0.053 (J)	
8/26/2020	0.068 (J)	
9/22/2020	0.058 (J)	
3/2/2021	0.073 (J)	
8/20/2021	0.06 (J)	
2/8/2022		0.064 (J)
8/30/2022		0.086 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
8/31/2016	0.05 (J)	
11/29/2016	0.04 (J)	
2/23/2017	0.06 (J)	
5/9/2017	0.06 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	<0.1	
6/13/2019	<0.1	
8/20/2019	<0.1	
10/9/2019	<0.1	
3/17/2020	<0.1	
8/27/2020	<0.1	
9/22/2020	<0.1	
3/1/2021	<0.1	
8/18/2021	<0.1	
2/8/2022		<0.1
8/30/2022		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
8/31/2016	0.08 (J)	
11/28/2016	0.03 (J)	
2/22/2017	0.04 (J)	
5/10/2017	0.05 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/20/2018	<0.1	
8/8/2018	<0.1	
2/26/2019	<0.1	
6/12/2019	0.58	
8/20/2019	<0.1	
10/9/2019	<0.1	
3/18/2020	<0.1	
8/28/2020	<0.1	
9/22/2020	<0.1	
3/1/2021	<0.1	
8/18/2021	<0.1	
2/9/2022		<0.1
8/31/2022		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
8/31/2016	0.07 (J)	
11/30/2016	0.03 (J)	
2/23/2017	0.04 (J)	
5/9/2017	<0.1	
7/18/2017	<0.1	
10/18/2017	0.22 (J)	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	<0.1	
6/13/2019	0.58	
8/21/2019	0.037 (J)	
10/10/2019	<0.1	
3/17/2020	0.1 (J)	
8/28/2020	0.097 (J)	
9/22/2020	<0.1	
3/2/2021	0.15	
8/18/2021	0.16	
2/8/2022		0.16
8/30/2022		0.14

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
9/1/2016	0.15 (J)	
11/30/2016	0.11 (J)	
2/24/2017	0.08 (J)	
5/10/2017	0.04 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/20/2018	<0.1	
8/8/2018	<0.1	
2/26/2019	<0.1	
6/12/2019	<0.1	
8/19/2019	<0.1	
10/10/2019	<0.1	
3/18/2020	<0.1	
8/28/2020	<0.1	
9/22/2020	<0.1	
3/1/2021	<0.1	
8/18/2021	<0.1	
2/8/2022		<0.1
8/30/2022		0.05 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/1/2016	0.03 (J)	
12/1/2016	<0.1	
2/24/2017	0.03 (J)	
5/10/2017	<0.1	
7/17/2017	0.37	
10/16/2017	<0.1	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	0.035 (J)	
6/13/2019	<0.1	
8/21/2019	<0.1	
10/9/2019	0.35	
3/18/2020	<0.1	
8/27/2020	0.064 (J)	
9/23/2020	<0.1	
3/2/2021	0.094 (J)	
8/18/2021	0.056 (J)	
2/9/2022		0.053 (J)
8/30/2022		0.11

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/1/2016	0.28 (J)	
11/29/2016	0.05 (J)	
2/23/2017	0.07 (J)	
5/10/2017	0.02 (J)	
7/18/2017	<0.1	
10/18/2017	<0.1	
2/19/2018	<0.1	
8/6/2018	<0.1	
2/25/2019	<0.1	
6/13/2019	<0.1	
8/20/2019	<0.1	
10/8/2019	<0.1	
3/17/2020	<0.1	
8/27/2020	<0.1	
9/23/2020	<0.1	
3/3/2021	<0.1	
8/18/2021	<0.1	
2/8/2022		<0.1
8/30/2022		0.064 (J)

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLS
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
8/27/2008	6.53	
3/3/2009	6.35	
11/18/2009	6.47	
3/3/2010	6.53	
3/10/2011	5.83	
9/8/2011	5.69	
3/5/2012	6.27	
9/10/2012	6.23	
2/6/2013	7.56	
8/12/2013	6.68	
2/5/2014	6.32	
8/3/2015	6.13 (D)	
2/16/2016	5.64	
11/28/2016	6.23	
2/22/2017	6.21	
5/8/2017	6.12	
7/17/2017	6.03	
10/16/2017	6.12	
2/19/2018	6.13	
8/6/2018	6.01	
2/25/2019	6.51	
6/12/2019	6.3	
8/19/2019	6.23	
10/8/2019	6.28	
3/17/2020	6.14	
5/6/2020	6.24	
8/26/2020	5.67	
9/22/2020	5.78	
3/2/2021	5.42 (D)	
8/20/2021	5.86	
2/8/2022		5.83
8/30/2022		5.39

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLS
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	4.49	
11/29/2016	5.37	
2/23/2017	5.5	
5/9/2017	5.41	
7/18/2017	5.5	
10/17/2017	5.42	
2/21/2018	5.39	
8/7/2018	5.14	
2/26/2019	5.52	
6/13/2019	5.55	
8/20/2019	5.33	
10/9/2019	5.37	
3/17/2020	5.7	
5/6/2020	6.8	
8/27/2020	5.39	
9/22/2020	5.25	
3/1/2021	5.25	
8/18/2021	5.08	
2/8/2022		5.16
8/30/2022		5.07

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intravel PLS
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
3/11/2011	5.52	
9/7/2011	4.35	
3/6/2012	6.37	
9/11/2012	5.69	
2/6/2013	6.8	
8/13/2013	5.51	
2/4/2014	5.74	
2/17/2016	5.59	
11/28/2016	5.47	
2/22/2017	5.48	
5/10/2017	5.6	
7/18/2017	5.49	
10/17/2017	5.45	
2/20/2018	5.52	
8/8/2018	5.15	
2/26/2019	5.4	
6/12/2019	5.38	
8/20/2019	5.33	
10/9/2019	5.39	
3/18/2020	5.38	
5/7/2020	5.43	
8/28/2020	5.45	
9/22/2020	5.34	
3/1/2021	5.17	
8/18/2021	4.96	
2/9/2022		5.2
8/31/2022		5.23

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	4.31	
11/30/2016	5.13	
2/23/2017	5.28	
5/9/2017	5.12	
7/18/2017	5.21	
10/18/2017	5.17	
2/21/2018	5.15	
8/7/2018	4.95	
2/26/2019	5.22	
6/13/2019	5.08	
8/21/2019	5.32	
10/10/2019	5.4	
3/17/2020	5.03	
5/7/2020	5.05	
8/28/2020	5.2	
9/22/2020	5.11	
3/2/2021	4.82	
8/18/2021	4.73	
2/8/2022		5.1
8/30/2022		4.85

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
3/11/2011	6.16	
9/7/2011	5.07	
11/30/2016	5.61	
2/24/2017	5.47	
5/10/2017	5.68	
7/18/2017	5.59	
10/17/2017	5.52	
2/20/2018	5.51	
8/8/2018	5.33	
2/26/2019	5.42	
6/12/2019	5.54	
8/19/2019	5.56	
10/10/2019	5.55	
3/18/2020	5.58	
5/7/2020	5.52	
8/28/2020	5.38	
9/22/2020	5.43	
3/1/2021	5.62	
8/18/2021	5.46	
2/8/2022		5.67
8/30/2022		5.52

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	5.64	
12/1/2016	5.24	
2/24/2017	5.37	
5/10/2017	5.2	
7/17/2017	5.21	
10/16/2017	5.16	
2/21/2018	5.18	
8/7/2018	5.06	
2/26/2019	5.08	
6/13/2019	5.01	
8/21/2019	4.88	
10/9/2019	4.89	
1/21/2020	4.99	
3/18/2020	4.88	
5/7/2020	5.2	
8/27/2020	5.17	
9/23/2020	5.04	
3/2/2021	4.63	
8/18/2021	4.76	
2/9/2022		4.82
8/30/2022		4.86

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - IntraWell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
11/18/2009	5.82	
1/5/2010	5.8	
3/3/2010	6.15	
3/10/2011	6.05	
9/8/2011	5.31	
3/5/2012	6.23	
9/5/2012	5.83	
2/5/2013	6.79	
8/13/2013	6.48	
2/4/2014	6.14	
2/16/2016	5.2	
11/29/2016	5.92	
2/23/2017	5.97	
5/10/2017	5.82	
7/18/2017	5.76	
10/18/2017	5.76	
2/19/2018	5.86	
8/6/2018	5.84	
2/25/2019	5.91	
6/13/2019	5.84	
8/20/2019	5.85	
10/8/2019	5.91	
3/17/2020	5.97	
5/6/2020	5.99	
8/27/2020	5.77	
9/23/2020	5.81	
3/3/2021	5.78	
8/18/2021	5.82	
2/8/2022		5.89
8/30/2022		5.82

FIGURE F.

Interwell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 1:59 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)	GWC-2R	0.16	n/a	8/31/2022	0.19	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	8/30/2022	4.4	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/30/2022	189	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/31/2022	46.9	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/30/2022	55.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/30/2022	135	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/30/2022	40.6	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	12	n/a	8/31/2022	14.5	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	12	n/a	8/30/2022	146	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/30/2022	994	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/31/2022	280	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/30/2022	939	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/30/2022	174	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	218.7	n/a	8/30/2022	1600	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	218.7	n/a	8/31/2022	510	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	218.7	n/a	8/30/2022	628	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	218.7	n/a	8/30/2022	1570	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	218.7	n/a	8/30/2022	400	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2

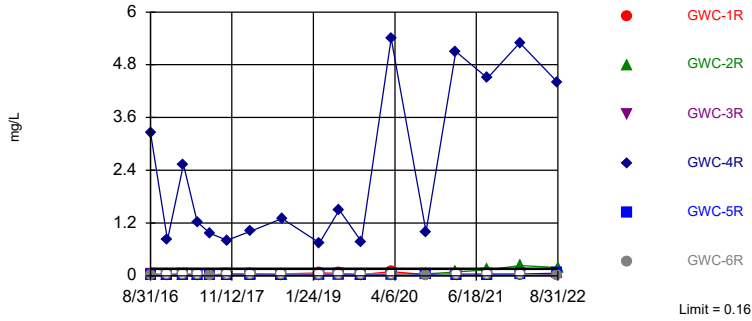
Interwell Prediction Limits Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 1:59 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)	GWC-1R	0.16	n/a	8/30/2022	0.015J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2R	0.16	n/a	8/31/2022	0.19	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-3R	0.16	n/a	8/30/2022	0.014J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	8/30/2022	4.4	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5R	0.16	n/a	8/30/2022	0.058	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	8/30/2022	0.0092J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/30/2022	189	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/31/2022	46.9	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-3R	37	n/a	8/30/2022	17.5	No	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/30/2022	55.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/30/2022	135	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/30/2022	40.6	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1R	12	n/a	8/30/2022	5.6	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	12	n/a	8/31/2022	14.5	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-3R	12	n/a	8/30/2022	3.1	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	12	n/a	8/30/2022	146	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5R	12	n/a	8/30/2022	1.8	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	12	n/a	8/30/2022	7.5	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/30/2022	994	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/31/2022	280	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-3R	160	n/a	8/30/2022	76	No	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	8/30/2022	155	No	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/30/2022	939	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/30/2022	174	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	218.7	n/a	8/30/2022	1600	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	218.7	n/a	8/31/2022	510	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-3R	218.7	n/a	8/30/2022	150	No	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	218.7	n/a	8/30/2022	628	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	218.7	n/a	8/30/2022	1570	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	218.7	n/a	8/30/2022	400	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit: GWC-2R, GWC-4R

Prediction Limit
 Interwell Non-parametric

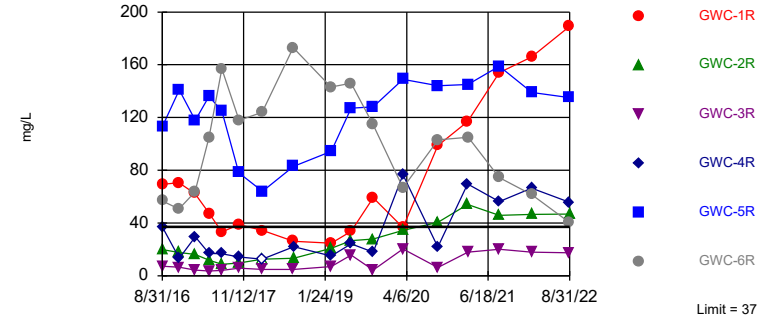


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 48.57% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 10/20/2022 1:50 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

Prediction Limit
 Interwell Non-parametric

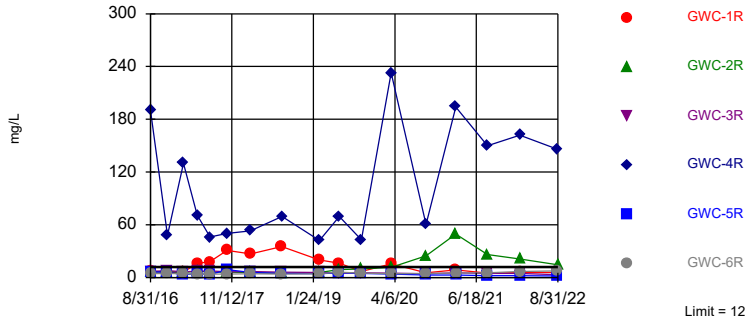


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 0.8571% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Calcium Analysis Run 10/20/2022 1:50 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
 Exceeds Limit: GWC-2R, GWC-4R

Prediction Limit
 Interwell Non-parametric

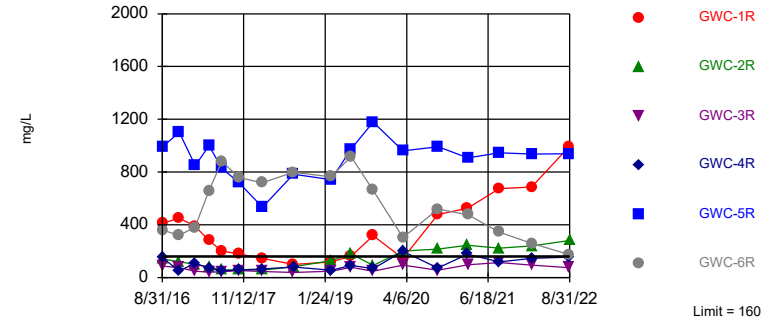


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Chloride Analysis Run 10/20/2022 1:50 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
 Exceeds Limit: GWC-1R, GWC-2R, GWC-5R, GWC-6R

Prediction Limit
 Interwell Non-parametric

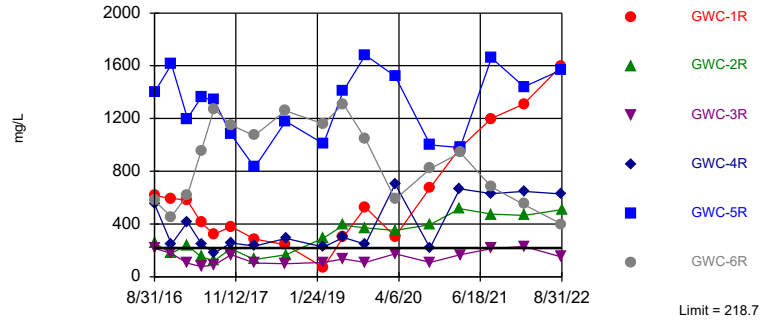


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 6% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 10/20/2022 1:51 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.07, Std. Dev.=2.588, n=350, 0.5714% NDs. Normality test was disabled. Kappa = 1.823 (c=7, w=6, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: TDS Analysis Run 10/20/2022 1:56 AM View: Appendix III - Parametric Interwell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			0.0087 (J)					0.02 (J)	
3/19/2020	0.0085 (J)	0.0053 (J)		0.0052 (J)					0.0073 (J)
3/24/2020					0.0068 (J)	0.011 (J)			
3/25/2020							0.011 (J)		
9/22/2020					0.0053 (J)	0.0079 (J)	<0.04		
9/23/2020	<0.04	0.0073 (J)	<0.04						0.012 (J)
9/24/2020				0.0075 (J)					
9/25/2020								0.02 (J)	
3/1/2021				<0.04					
3/2/2021					0.011 (J)	0.0068 (J)		0.017 (J)	
3/3/2021	<0.04	<0.04	<0.04				0.0056 (J)		<0.04
3/4/2021									
8/18/2021									
8/19/2021	<0.04		<0.04	<0.04				0.018 (J)	<0.04
8/20/2021									
8/26/2021					<0.04	0.009 (J)	<0.04		
8/27/2021		<0.04							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04						0.01 (J)
2/10/2022					<0.04	0.011 (J)		0.02 (J)	
2/11/2022				<0.04			<0.04		
8/30/2022	<0.04				<0.04	0.0098 (J)			
8/31/2022		<0.04	<0.04	<0.04			<0.04	0.015 (J)	<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	<0.04		0.008 (J)				
7/28/2016				<0.04					
8/30/2016						0.0166 (J)			
8/31/2016							0.0305 (J)	0.0315 (J)	0.0315 (J)
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		0.0079 (J)			0.0086 (J)				
9/19/2016	<0.04		<0.04	<0.04					
11/1/2016									
11/2/2016			<0.04						
11/3/2016	<0.04	0.0082 (J)		<0.04	0.0077 (J)				
11/4/2016									
11/14/2016						0.0166 (J)			
11/28/2016							0.0206 (J)	0.0095 (J)	
11/29/2016									
11/30/2016									0.0089 (J)
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.04	0.0096 (J)			0.0092 (J)				
1/12/2017									
1/13/2017			<0.04	<0.04					
1/16/2017									
2/21/2017									
2/22/2017							0.0192 (J)	<0.04	
2/23/2017									<0.04
2/24/2017						0.0145 (J)			
3/1/2017	<0.04	<0.04							
3/2/2017					0.0095 (J)				
3/3/2017									
3/6/2017			<0.04	<0.04					
3/7/2017									
3/8/2017									
4/26/2017	<0.04	0.0091 (J)	<0.04	<0.04					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					<0.04				
5/8/2017						0.0141 (J)		0.0084 (J)	
5/9/2017									0.0077 (J)
5/10/2017							0.0179 (J)		
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			<0.04	<0.04	0.0074 (J)				
6/30/2017									
7/11/2017						0.0131 (J)			
7/17/2017								0.0092 (J)	
7/18/2017							0.0169 (J)		0.0073 (J)
10/3/2017				<0.04					
10/4/2017		0.009 (J)	<0.04		0.0077 (J)				
10/5/2017	<0.04								
10/10/2017						0.0124 (J)			
10/11/2017									
10/12/2017									
10/16/2017								<0.04	
10/17/2017							0.0168 (J)		
10/18/2017									<0.04
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<0.04	
2/20/2018							<0.04		
2/21/2018									0.0399 (J)
4/2/2018						0.013 (J)			
4/3/2018									
6/5/2018				0.0092 (J)					
6/6/2018			0.0049 (J)						
6/7/2018	<0.04								
6/8/2018									
6/11/2018		0.0093 (J)			0.01 (J)				
6/28/2018									
8/6/2018								<0.04	
8/7/2018									0.0049 (J)
8/8/2018							0.017 (J)		
9/19/2018						0.012 (J)			
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)	0.0096 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								<0.04	
2/26/2019							0.017 (J)		0.0053 (J)
3/26/2019									
3/27/2019						0.013 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				0.011 (J)	0.0066 (J)				
4/3/2019	<0.04	0.0053 (J)	<0.04						
6/12/2019							0.013 (J)	<0.04	
6/13/2019									<0.04
9/24/2019				0.018 (J)					
9/25/2019			<0.04		0.0081 (J)				
9/26/2019	0.0062 (J)	0.0072 (J)							
10/8/2019						0.012 (J)		<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							0.018 (J)		
10/10/2019									0.0061 (J)
3/17/2020						0.023 (J)		0.0051 (J)	0.0099 (J)
3/18/2020							0.026 (J)		
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)	0.0092 (J)				
3/25/2020									
9/22/2020						0.0076 (J)	0.046 (J)	0.0079 (J)	0.0066 (J)
9/23/2020	0.021 (J)	0.006 (J)			0.0066 (J)				
9/24/2020			0.0094 (J)	0.013 (J)					
9/25/2020									
3/1/2021						0.013 (J)	0.087		
3/2/2021								<0.04	0.0071 (J)
3/3/2021	<0.04	0.0094 (J)	<0.04		0.01 (J)				
3/4/2021				0.0079 (J)					
8/18/2021							0.14		<0.04
8/19/2021						0.011 (J)			
8/20/2021								<0.04	
8/26/2021		<0.04							
8/27/2021	<0.04		<0.04		0.011 (J)				
9/1/2021				<0.04					
9/3/2021									
2/8/2022						0.015 (J)		<0.04	<0.04
2/9/2022	<0.04	<0.04	<0.04	<0.04	0.0098 (J)		0.23		
2/10/2022									
2/11/2022									
8/30/2022	<0.04	0.014 (J)		0.012 (J)	0.013 (J)			<0.04	0.014 (J)
8/31/2022			<0.04			0.0091 (J)	0.19		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	0.0553 (J)						
9/1/2016		0.0108 (J)	0.0191 (J)	3.25			
9/13/2016							
9/14/2016					<0.04		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					<0.04		
11/14/2016							
11/28/2016							
11/29/2016	0.0149 (J)	<0.04					
11/30/2016				0.813			
12/1/2016			0.0088 (J)				
12/15/2016					0.0107 (J)		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					<0.04		
2/21/2017							
2/22/2017							
2/23/2017	0.0082 (J)	<0.04					
2/24/2017			0.0067 (J)	2.53			
3/1/2017							
3/2/2017							
3/3/2017					<0.04		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					<0.04		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	0.0097 (J)						
5/10/2017		<0.04	0.0068 (J)	1.22			
5/26/2017					<0.04		
6/27/2017							
6/28/2017					<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			0.0102 (J)				
7/18/2017	0.0123 (J)	0.0061 (J)		0.97			
10/3/2017					<0.04		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						0.0135 (J)	
10/12/2017							0.0401
10/16/2017			0.0066 (J)				
10/17/2017	0.0513			0.804			
10/18/2017		<0.04					
11/20/2017						0.0251 (J)	0.156
1/10/2018							0.15
1/11/2018						0.0255 (J)	
2/19/2018		<0.04					0.146
2/20/2018				1.01		<0.04	
2/21/2018	0.0378 (J)		0.0268 (J)				
4/2/2018							
4/3/2018						0.033 (J)	0.12
6/5/2018							
6/6/2018							
6/7/2018					<0.04		
6/8/2018							
6/11/2018							
6/28/2018						0.053	0.16
8/6/2018		<0.04					
8/7/2018	0.043		0.012 (J)			0.024 (J)	0.12
8/8/2018				1.3			
9/19/2018							
9/24/2018						0.028 (J)	0.099
9/25/2018							
9/26/2018							
10/1/2018					<0.04		
10/2/2018							
2/25/2019		<0.04					
2/26/2019	0.062		0.033 (J)	0.75			
3/26/2019							0.096
3/27/2019						0.017 (J)	
3/28/2019							
3/29/2019					0.0065 (J)		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019				1.5			
6/13/2019	0.057	<0.04	0.03 (J)				
9/24/2019					0.0076 (J)		
9/25/2019							
9/26/2019							
10/8/2019		<0.04					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	0.029 (J)		0.013 (J)			0.017 (J)	0.079
10/10/2019				0.78			
3/17/2020	0.092 (J)	<0.04					
3/18/2020			0.034 (J)	5.4			
3/19/2020					0.0073 (J)		
3/24/2020							0.088 (J)
3/25/2020						0.043 (J)	
9/22/2020	0.025 (J)			1			
9/23/2020		0.0055 (J)	0.028 (J)		<0.04		
9/24/2020						0.037 (J)	0.087 (J)
9/25/2020							
3/1/2021	0.046			5.1			
3/2/2021			0.023 (J)				
3/3/2021		<0.04			<0.04		
3/4/2021						0.033 (J)	0.078
8/18/2021	0.029 (J)	<0.04	0.021 (J)	4.5			
8/19/2021							
8/20/2021							
8/26/2021						0.095	
8/27/2021					<0.04		
9/1/2021							
9/3/2021							0.077
2/8/2022	0.021 (J)	<0.04		5.3		0.13	0.074
2/9/2022			0.043		<0.04		
2/10/2022							
2/11/2022							
8/30/2022	0.015 (J)	0.0092 (J)	0.058	4.4	<0.04		
8/31/2022						0.14	0.062

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	12	21	2.5						
6/2/2016				1.3	2.4	33	8.8	1.3	28
6/6/2016									
6/7/2016									
7/25/2016		20.3	2.16	1.17					
7/26/2016	11				2.12	32.3	7.69	1.24	24.5
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	11.8		2.21						
9/14/2016		19.7			2.18	31	8.49		
9/15/2016								1.17	27
9/16/2016									
9/19/2016				1.05					
11/1/2016	11	18.4		1.14					25.6
11/2/2016						30.9	7.83	1.23	
11/3/2016									
11/4/2016			2.67		2.17 (J)				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017								1.24	
1/11/2017	11.2	20.3							27.5
1/12/2017					2.37	35.7			
1/13/2017							8.08		
1/16/2017			2.45	1.23					
2/21/2017				1.25					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		18.6							
3/2/2017	11		2.57						27.5
3/3/2017									
3/6/2017							8.64		
3/7/2017					2.34	32.7			
3/8/2017								1.21	
4/26/2017		25.6		1.03				1.14	30.4
4/27/2017	11.1		2.38						
4/28/2017									
5/1/2017						37	13.4		
5/2/2017					2.17				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	13.8		2.36		2.13	36.5			
6/28/2017		23.9							29.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			2.1					1.1	
3/19/2020	15	21.9		1.2					31.5
3/24/2020					2.5	26.1			
3/25/2020							10.5		
9/22/2020					2.6	27.2	9.6		
9/23/2020	14.1	23.6	1.8						28.6
9/24/2020				1.1					
9/25/2020								1.3	
3/1/2021				1.2					
3/2/2021					2.6	1.6		1.2	
3/3/2021	14.1	20.6	1.8				7.7		29.8
3/4/2021									
8/18/2021									
8/19/2021	14.2		2	1.2				1.2	28.1
8/20/2021									
8/26/2021					2.5	25.2	7.6		
8/27/2021		24.7							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	14.9	23.7	2.1						30.3
2/10/2022					2.5	24.8		1.3	
2/11/2022				1.5			7.5		
8/30/2022	14.9				2.5	24.8			
8/31/2022		23.5	1.9	1.3			8.9	1.3	28.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.3	3.7	2.2				
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2.08		2				
7/28/2016				3.15					
8/30/2016						20.9			
8/31/2016							19.9	9.31	7.23
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5			1.97				
9/19/2016	4.76		1.97	3.17					
11/1/2016									
11/2/2016			2.13						
11/3/2016	5.25	1.31		3.4	1.99				
11/4/2016									
11/14/2016						18.6			
11/28/2016							17.7 (B)	9.47 (B)	
11/29/2016									
11/30/2016									6.43 (B)
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25			2.28				
1/12/2017									
1/13/2017			2.45	4.98					
1/16/2017									
2/21/2017									
2/22/2017							16.2	10.4	
2/23/2017									4.25
2/24/2017						16.1			
3/1/2017	5.37	1.26							
3/2/2017					2.15				
3/3/2017									
3/6/2017			2.48	6.28					
3/7/2017									
3/8/2017									
4/26/2017	4.28	1.05	2.3	6.65					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					1.95				
5/8/2017						14.6		14.2	
5/9/2017									3.56
5/10/2017							11.8		
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			2.54	6.04	2.02				
6/30/2017									
7/11/2017						14.3			
7/17/2017								14.1	
7/18/2017							8.69		4.16
10/3/2017				8.28					
10/4/2017		1.1	2.25		2.03				
10/5/2017	5.28								
10/10/2017						12.1			
10/11/2017									
10/12/2017									
10/16/2017								13.6	
10/17/2017							9.77		
10/18/2017									5.67
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<25	
2/20/2018							<25		
2/21/2018									4.76
4/2/2018						<25			
4/3/2018									
6/5/2018				9.1					
6/6/2018			2.3						
6/7/2018	4.8								
6/8/2018									
6/11/2018		1.4			2.1				
6/28/2018									
8/6/2018								11.4 (J)	
8/7/2018									4.7
8/8/2018							13.4 (J)		
9/19/2018						11.1 (J)			
9/24/2018									
9/25/2018	4.6	1	2.3	10.4 (J)	2.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								12.7 (J)	
2/26/2019							20.9 (J)		7.1
3/26/2019									
3/27/2019						10.8 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				8.8	2.5				
4/3/2019	5.3	1.2	2.9						
6/12/2019							26.6	18.9	
6/13/2019									15.7
9/24/2019				7.7					
9/25/2019			2.4		2.6				
9/26/2019	4.9	1.1							
10/8/2019						9.7		28.3	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							27.8		
10/10/2019									4.3
3/17/2020						14.8		24.3	20.3
3/18/2020							34.5		
3/19/2020									
3/24/2020	5.3	1	2.6	6	2.7				
3/25/2020									
9/22/2020						10.1	40.5	31	6.2
9/23/2020	5.2	0.91 (J)			2.6				
9/24/2020			2.6	7.8					
9/25/2020									
3/1/2021						10.3	54.1		
3/2/2021								34.2	17.9
3/3/2021	5.2	0.96 (J)	2.4		2.5				
3/4/2021				8.7					
8/18/2021							45.8		20.2
8/19/2021						9.6			
8/20/2021								26.5	
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.4		2.7				
9/1/2021				9.5					
9/3/2021									
2/8/2022						9.4		25.6	17.9
2/9/2022	5.1	0.87 (J)	2.3	9.8	2.8		46.6		
2/10/2022									
2/11/2022									
8/30/2022	5.7	0.77 (J)		7.3	3			23.5	17.5
8/31/2022			2.4			9.6	46.9		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	69.4						
9/1/2016		56.8	113	37.1			
9/13/2016							
9/14/2016					23.5		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					23.7		
11/14/2016							
11/28/2016							
11/29/2016	70.6 (B)	50.7 (B)					
11/30/2016				13.4 (B)			
12/1/2016			141 (B)				
12/15/2016					23.1		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					23.3		
2/21/2017							
2/22/2017							
2/23/2017	62.4	63.5					
2/24/2017			118	29.5			
3/1/2017							
3/2/2017							
3/3/2017					25.1		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					30.7		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	47.4						
5/10/2017		105	136	17			
5/26/2017					26.2		
6/27/2017							
6/28/2017					26.1		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			125				
7/18/2017	33.2	157		16.8			
10/3/2017					26.7		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						2.74	
10/12/2017							2.9
10/16/2017			78.2				
10/17/2017	38.7			14.3			
10/18/2017		118					
11/20/2017						1.81	10.4
1/10/2018							10.2
1/11/2018						1.54	
2/19/2018		124					<25
2/20/2018				<25		1.71	
2/21/2018	34.3		64				
4/2/2018							
4/3/2018						1.4	6.3
6/5/2018							
6/6/2018							
6/7/2018					25		
6/8/2018							
6/11/2018							
6/28/2018						1.4	6.7
8/6/2018		173					
8/7/2018	26.2		83			1.2	6.3
8/8/2018				22.1 (J)			
9/19/2018							
9/24/2018						1.1	5.7
9/25/2018							
9/26/2018							
10/1/2018					25		
10/2/2018							
2/25/2019		143					
2/26/2019	24.7 (J)		94.4	15.1 (J)			
3/26/2019							5.6
3/27/2019						1.5	
3/28/2019							
3/29/2019					23.5 (J)		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019				24.2			
6/13/2019	33.8	146	127				
9/24/2019					26.4		
9/25/2019							
9/26/2019							
10/8/2019		115					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	59.1		128			2.4	4.9
10/10/2019				18			
3/17/2020	36.7	66.8					
3/18/2020			149	76.6			
3/19/2020					27.4		
3/24/2020							4.8
3/25/2020						2.7	
9/22/2020	98.8			21.8			
9/23/2020		103	144		26.3		
9/24/2020						3.7	4.4
9/25/2020							
3/1/2021	117			69.5			
3/2/2021			145				
3/3/2021		105			25.6		
3/4/2021						8.2	4.6
8/18/2021	154	74.5	159	56.2			
8/19/2021							
8/20/2021							
8/26/2021						14.1	
8/27/2021					22.6		
9/1/2021							
9/3/2021							5.6
2/8/2022	166	61.5		66.5		15.2	6
2/9/2022			139		23.4		
2/10/2022							
2/11/2022							
8/30/2022	189	40.6	135	55.8	25.4		
8/31/2022						16.3	6.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				1.9	4.3	7.2	3.7	4.1	1.4
6/6/2016									
6/7/2016									
7/25/2016		1.3	1.4	1.7					
7/26/2016	1.2				4.4	6.6	3.6	4	1.6
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	1.1		1.3						
9/14/2016		1.3			3.8	6.6	3.4		
9/15/2016								4.2	1.5
9/16/2016									
9/19/2016				1.6					
11/1/2016	1.3	1.4		1.8					1.7
11/2/2016						7.6	4.5	4.9	
11/3/2016									
11/4/2016			1.6		4.8				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017								4.1	
1/11/2017	1.1	1.1							1.2
1/12/2017					3.8	6.8			
1/13/2017							4.2		
1/16/2017			1.4	1.7					
2/21/2017				1.7					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		1.1							
3/2/2017	1		1.3						1.2
3/3/2017									
3/6/2017							3.6		
3/7/2017					4.5	6.8			
3/8/2017								4.2	
4/26/2017		1.1		1.7				4.1	1.2
4/27/2017	1		1.3						
4/28/2017									
5/1/2017						7.2	4.3		
5/2/2017					4.6				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	1.1		1.4		4.3	7			
6/28/2017		1.2							1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			1.4					5.2	
3/19/2020	1.1	1.1		1.8					1.2
3/24/2020					4.3	3.5			
3/25/2020							3.9		
9/22/2020					4.2	3.6	4.5		
9/23/2020	0.99 (J)	1	1.2						1.1
9/24/2020				1.5					
9/25/2020								5.3	
3/1/2021				1.6					
3/2/2021					4.3	3.2		4.9	
3/3/2021	0.96 (J)	0.99 (J)	1.2				4.1		1.1
3/4/2021									
8/18/2021									
8/19/2021	1.1		1.3	1.6				5	1.1
8/20/2021									
8/26/2021					4.3	3.4	4.4		
8/27/2021		1.1							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1	1.1	1.3						1.1
2/10/2022					4.4	3.2		4.7	
2/11/2022				2.1			4.1		
8/30/2022	1.3				4.4	3.5			
8/31/2022		1.3	1.5	1.8			4.4	4.6	1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			1.9	2.8	4.5				
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	1.9		4.5				
7/28/2016				2.6					
8/30/2016						5.2			
8/31/2016							6.3	4	6.7
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1			4.5				
9/19/2016	7		1.9	2.4					
11/1/2016									
11/2/2016			2.6						
11/3/2016	7.5	7.4		2.9	5.4				
11/4/2016									
11/14/2016						6.4			
11/28/2016							6.7	4.2	
11/29/2016									
11/30/2016									7.8
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1			4.7				
1/12/2017									
1/13/2017			2.3	2.5					
1/16/2017									
2/21/2017									
2/22/2017							5.7	3.7	
2/23/2017									6.5
2/24/2017						5.5			
3/1/2017	6.9	6							
3/2/2017					4.8				
3/3/2017									
3/6/2017			1.9	2.1					
3/7/2017									
3/8/2017									
4/26/2017	7	6.5	2	2.1					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					4.6				
5/8/2017						5.8		4.2	
5/9/2017									7.2
5/10/2017							7.1		
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			2.6	2.8	4.5				
6/30/2017									
7/11/2017						5.8			
7/17/2017								3.8	
7/18/2017							6		7.7
10/3/2017				2.2					
10/4/2017		6.8	2.6		4.7				
10/5/2017	7								
10/10/2017						5.9			
10/11/2017									
10/12/2017									
10/16/2017								4.2	
10/17/2017							6.1		
10/18/2017									6.5
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								4.3	
2/20/2018							5.8		
2/21/2018									6.7
4/2/2018						4.8			
4/3/2018									
6/5/2018				1.7					
6/6/2018			2.7						
6/7/2018	6.8								
6/8/2018									
6/11/2018		6.8			4.9				
6/28/2018									
8/6/2018								3.8	
8/7/2018									6.3
8/8/2018							4.7		
9/19/2018						4			
9/24/2018									
9/25/2018	7.9	7.8	3.6	2.2	5.6				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								4.1	
2/26/2019							5.7		5.7
3/26/2019									
3/27/2019						4.3			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				2.5	4.8				
4/3/2019	6.9	6.3	3.1						
6/12/2019							9.1	4.7	
6/13/2019									5
9/24/2019				3.1					
9/25/2019			2.8		5.7				
9/26/2019	7	7.1							
10/8/2019						4.4		5.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							9.8		
10/10/2019									5.3
3/17/2020						4.1		4.8	5.2
3/18/2020							11.7		
3/19/2020									
3/24/2020	7	6.8	2.7	2.8	5				
3/25/2020									
9/22/2020						4.2	24.7	4.2	4.2
9/23/2020	7.2	7.2			6.6				
9/24/2020			2.7	2					
9/25/2020									
3/1/2021						3.7	49.6		
3/2/2021								4.1	5.5
3/3/2021	7	7.2	2.7		7.1				
3/4/2021				1.8					
8/18/2021							26.2		4.6
8/19/2021						3.5			
8/20/2021								5.2	
8/26/2021		7.3							
8/27/2021	7.4		2.8		8.5				
9/1/2021				1.8					
9/3/2021									
2/8/2022						3.2		5.7	4.5
2/9/2022	7.5	7	2.8	1.7	10.9		21.2		
2/10/2022									
2/11/2022									
8/30/2022	7.9	7		2.4	12			6.3	3.1
8/31/2022			2.9			3.5	14.5		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	7.6						
9/1/2016		4.4	6.6	190			
9/13/2016							
9/14/2016					1.1		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					1.4		
11/14/2016							
11/28/2016							
11/29/2016	5.8	4.8					
11/30/2016				48			
12/1/2016			6				
12/15/2016					2.9		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					0.98		
2/21/2017							
2/22/2017							
2/23/2017	6.2	4.4					
2/24/2017			3.4	130			
3/1/2017							
3/2/2017							
3/3/2017					1.1		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					0.91		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	16						
5/10/2017		3.9	4.5	71			
5/26/2017					0.93		
6/27/2017							
6/28/2017					1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			3.2				
7/18/2017	18	4		46			
10/3/2017					1.2		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						2.4	
10/12/2017							3.8
10/16/2017			9				
10/17/2017	31			50			
10/18/2017		4.1					
11/20/2017						1.8	4.4
1/10/2018							4.6
1/11/2018						1.6	
2/19/2018		4.4					4.6
2/20/2018				53.1		2	
2/21/2018	27		5.6				
4/2/2018							
4/3/2018						3.3	5.9
6/5/2018							
6/6/2018							
6/7/2018					1		
6/8/2018							
6/11/2018							
6/28/2018						2.1	5
8/6/2018		3.9					
8/7/2018	35.4		4.7			1.2	4.3
8/8/2018				69.3			
9/19/2018							
9/24/2018						1.3	4.9
9/25/2018							
9/26/2018							
10/1/2018					1.1		
10/2/2018							
2/25/2019		4.4					
2/26/2019	20		4.2	42.2			
3/26/2019							4.4
3/27/2019						1.4	
3/28/2019							
3/29/2019					1.2		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019				69.5			
6/13/2019	16.4	6.2	5.5				
9/24/2019					0.95 (J)		
9/25/2019							
9/26/2019							
10/8/2019		4.9					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	6.9		4.5			2.1	5.1
10/10/2019				42.8			
3/17/2020	15.5	4.4					
3/18/2020			3.8	233			
3/19/2020					0.97 (J)		
3/24/2020							4.7
3/25/2020						1.9	
9/22/2020	5.5			60.2			
9/23/2020		4.7	3		0.88 (J)		
9/24/2020						2.7	5
9/25/2020							
3/1/2021	8.6			194			
3/2/2021			2.9				
3/3/2021		5			0.86 (J)		
3/4/2021						4.9	4.9
8/18/2021	5.2	5.4	2.3	150			
8/19/2021							
8/20/2021							
8/26/2021						7.2	
8/27/2021					0.99 (J)		
9/1/2021							
9/3/2021							5.5
2/8/2022	5.6	6.9		162		7.4	6.2
2/9/2022			2		1 (J)		
2/10/2022							
2/11/2022							
8/30/2022	5.6	7.5	1.8	146	1.2		
8/31/2022						6.7	6.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	5	12	4.2						
6/2/2016				1.3	1.9	20	8	6.6	5.8
6/6/2016									
6/7/2016									
7/25/2016		8.4	3.7	1.2					
7/26/2016	5.4				1.8	20	7.7	6.1	6.7
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	2.9		5.2						
9/14/2016		8.6			1.8	19	7.5		
9/15/2016								6.1	6
9/16/2016									
9/19/2016				1.2					
11/1/2016	3.9	8.9		1.3					4.9
11/2/2016						20	8.2	6.3	
11/3/2016									
11/4/2016			5		2				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017								5.9	
1/11/2017	3.7	8.6							4.5
1/12/2017					1.9	19			
1/13/2017							8.1		
1/16/2017			7.9	<1					
2/21/2017				1.4					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		9.3							
3/2/2017	4.6		7.4						4.4
3/3/2017									
3/6/2017							8		
3/7/2017					2.1	20			
3/8/2017								7	
4/26/2017		11		1.4				7	5.1
4/27/2017	5.2		7.4						
4/28/2017									
5/1/2017						20	8.4		
5/2/2017					2				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	5.9		6.4		2.1	18			
6/28/2017		12							5.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			5.3					8.1	
3/19/2020	10	12.9		1.6					9
3/24/2020					2.1	5.9			
3/25/2020							8.8		
9/22/2020					2.1	5.5	8.2		
9/23/2020	8.1	16.8	3.4						6.9
9/24/2020				0.69 (J)					
9/25/2020								6.1	
3/1/2021				0.88 (J)					
3/2/2021					2.3	2.6		6	
3/3/2021	9	9.6	4.4				7.8		7
3/4/2021									
8/18/2021									
8/19/2021	8.9		4.9	1				6.7	7.5
8/20/2021									
8/26/2021					2.4	6	8.5		
8/27/2021		18.2							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	9.3	16	5.1						7.2
2/10/2022					2.4	4.9		6.2	
2/11/2022				2.8			7.7		
8/30/2022	10.2				2.4	5.7			
8/31/2022		13.9	4.8	1.1			8	5.8	6.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			<1	5.2	4.4				
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9	0.08 (J)		4.7				
7/28/2016				5.1					
8/30/2016						160			
8/31/2016							140	29	87
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7			4.8				
9/19/2016	1.8		0.08 (J)	4.8					
11/1/2016									
11/2/2016			0.1 (J)						
11/3/2016	0.69 (J)	1.9		5	5.3				
11/4/2016									
11/14/2016						150			
11/28/2016							120	36	
11/29/2016									
11/30/2016									76
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7			5.2				
1/12/2017									
1/13/2017			<1	4.3					
1/16/2017									
2/21/2017									
2/22/2017							100	43	
2/23/2017									47
2/24/2017						120			
3/1/2017	1.8	<1							
3/2/2017					5				
3/3/2017									
3/6/2017			<1	4.5					
3/7/2017									
3/8/2017									
4/26/2017	1.6	1.9	<1	4.9					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					5				
5/8/2017						120		60	
5/9/2017									41
5/10/2017							80		
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			<1	5.5	5.2				
6/30/2017									
7/11/2017						110			
7/17/2017								63	
7/18/2017							57		44
10/3/2017				5.8					
10/4/2017		1.7	<1		5.3				
10/5/2017	1.6								
10/10/2017						93			
10/11/2017									
10/12/2017									
10/16/2017								62	
10/17/2017							59		
10/18/2017									53
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								64.6	
2/20/2018							55.9		
2/21/2018									46.7
4/2/2018						88.8			
4/3/2018									
6/5/2018				6.1					
6/6/2018			0.049 (J)						
6/7/2018	0.68 (J)								
6/8/2018									
6/11/2018		0.95 (J)			5.2				
6/28/2018									
8/6/2018								42.1	
8/7/2018									38.8
8/8/2018							81.1		
9/19/2018						75			
9/24/2018									
9/25/2018	1	1.5	0.13 (J)	7	6.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								42.1	
2/26/2019							129		49.3
3/26/2019									
3/27/2019						65.9			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				3.8	5.1				
4/3/2019	0.82 (J)	1.3	0.12 (J)						
6/12/2019							180	83.4	
6/13/2019									77.1
9/24/2019				1					
9/25/2019			<1		5.5				
9/26/2019	0.64 (J)	1							
10/8/2019						52.3		128	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							91.2		
10/10/2019									48
3/17/2020						71.6		98.6	95.2
3/18/2020							200		
3/19/2020									
3/24/2020	<1	0.99 (J)	<1	3	5.4				
3/25/2020									
9/22/2020						51.5	216	145	55.1
9/23/2020	0.53 (J)	1.1			5.1				
9/24/2020			<1	3.6					
9/25/2020									
3/1/2021						51.6	244		
3/2/2021								156	95.5
3/3/2021	<1	1	<1		5.2				
3/4/2021				4.5					
8/18/2021							223		114
8/19/2021						52.6			
8/20/2021								121	
8/26/2021		1.2							
8/27/2021	0.59 (J)		<1		5.3				
9/1/2021				5					
9/3/2021									
2/8/2022						50.9		107	93.5
2/9/2022	0.51 (J)	1.1	<1	3.9	4.8		241		
2/10/2022									
2/11/2022									
8/30/2022	0.78 (J)	1.3		3.2	4.7			101	76
8/31/2022			<1			48	280		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	410						
9/1/2016		360	990	150			
9/13/2016							
9/14/2016					9.4		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					13		
11/14/2016							
11/28/2016							
11/29/2016	450	320					
11/30/2016				50			
12/1/2016			1100				
12/15/2016					1.8		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					11		
2/21/2017							
2/22/2017							
2/23/2017	390	380					
2/24/2017			850	110			
3/1/2017							
3/2/2017							
3/3/2017					8.8		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					10		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	280						
5/10/2017		660	1000	70			
5/26/2017					12		
6/27/2017							
6/28/2017					11		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			830				
7/18/2017	200	880		50			
10/3/2017					7.9		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						20	
10/12/2017							17
10/16/2017			720				
10/17/2017	180			58			
10/18/2017		760					
11/20/2017						24	71
1/10/2018							66
1/11/2018						23	
2/19/2018		718					57.2
2/20/2018				64.6		20.6	
2/21/2018	146		533				
4/2/2018							
4/3/2018						24.5	49.4
6/5/2018							
6/6/2018							
6/7/2018					8.8		
6/8/2018							
6/11/2018							
6/28/2018						22	43.8
8/6/2018		797					
8/7/2018	100		784			20.7	40.5
8/8/2018				79.5			
9/19/2018							
9/24/2018						21.2	39.7
9/25/2018							
9/26/2018							
10/1/2018					9.1		
10/2/2018							
2/25/2019		763					
2/26/2019	118		742	55.8			
3/26/2019							34.3
3/27/2019						17.7	
3/28/2019							
3/29/2019					9		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019				92.8			
6/13/2019	163	918	976				
9/24/2019					9.1		
9/25/2019							
9/26/2019							
10/8/2019		664					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	318		1180			15	27.9
10/10/2019				68.7			
3/17/2020	145	303					
3/18/2020			960	199			
3/19/2020					12.4		
3/24/2020							25.2
3/25/2020						14.3	
9/22/2020	478			72.1			
9/23/2020		518	992		11.8		
9/24/2020						11.7	22.9
9/25/2020							
3/1/2021	525			177			
3/2/2021			906				
3/3/2021		476			10.6		
3/4/2021						12	21.5
8/18/2021	675	345	946	118			
8/19/2021							
8/20/2021							
8/26/2021						19.2	
8/27/2021					16.7		
9/1/2021							
9/3/2021							21.3
2/8/2022	687	260		146		14.6	17.9
2/9/2022			937		18		
2/10/2022							
2/11/2022							
8/30/2022	994	174	939	155	20.1		
8/31/2022						10.9	17.9

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	120	150	54						
6/2/2016				36	66	160	96	46	130
6/6/2016									
6/7/2016									
7/25/2016		135	48	50					
7/26/2016	94				78	177	92	54	141
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	105		67						
9/14/2016		127			73	187	102		
9/15/2016								54	153
9/16/2016									
9/19/2016				35					
11/1/2016	44	75		<25					92
11/2/2016						181	115	71	
11/3/2016									
11/4/2016			60		75				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017								45	
1/11/2017	107	148							159
1/12/2017					86	202			
1/13/2017							67		
1/16/2017			65	47					
2/21/2017				<25					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		182							
3/2/2017	98		61						117
3/3/2017									
3/6/2017							159		
3/7/2017					108	257			
3/8/2017								178	
4/26/2017		92		55				52	181
4/27/2017	116		31						
4/28/2017									
5/1/2017						165	107		
5/2/2017					103				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	89		42		73	189			
6/28/2017		126							169

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			35					57	
3/19/2020	116	148		47					146
3/24/2020					68	139			
3/25/2020							146		
9/22/2020					75	104	83		
9/23/2020	108	155	15						157
9/24/2020				51					
9/25/2020								54	
3/1/2021				23					
3/2/2021					67	52		67	
3/3/2021	99	111	39				80		137
3/4/2021									
8/18/2021									
8/19/2021	105		44	50				54	144
8/20/2021									
8/26/2021					86	123	93		
8/27/2021		155							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	105	145	57						154
2/10/2022					77	127		56	
2/11/2022				66			102		
8/30/2022	116				86	148			
8/31/2022		137	46	33			92	51	141

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			38	60	28				
7/25/2016									
7/26/2016									
7/27/2016	94	35	74		74				
7/28/2016				81					
8/30/2016						319			
8/31/2016							257	209	216
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35			67				
9/19/2016	92		45	68					
11/1/2016									
11/2/2016			53						
11/3/2016	104	48		61	41				
11/4/2016									
11/14/2016						280			
11/28/2016							177	102	
11/29/2016									
11/30/2016									177 (B)
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	133	95			104				
1/12/2017									
1/13/2017			46	76					
1/16/2017									
2/21/2017									
2/22/2017							240	164	
2/23/2017									105
2/24/2017						162			
3/1/2017	119	79							
3/2/2017					77				
3/3/2017									
3/6/2017			164	167					
3/7/2017									
3/8/2017									
4/26/2017	162	36	34	50					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					142				
5/8/2017						194		145	
5/9/2017									77
5/10/2017							149		
5/26/2017									
6/27/2017									
6/28/2017	98	45							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			68	94	53				
6/30/2017									
7/11/2017						193			
7/17/2017								185	
7/18/2017							122		89
10/3/2017				149					
10/4/2017		45	54		61				
10/5/2017	104								
10/10/2017						175			
10/11/2017									
10/12/2017									
10/16/2017								218	
10/17/2017							214		
10/18/2017									166
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								173	
2/20/2018							131		
2/21/2018									105
4/2/2018						192			
4/3/2018									
6/5/2018				109					
6/6/2018			79						
6/7/2018	68								
6/8/2018									
6/11/2018		74			70				
6/28/2018									
8/6/2018								158	
8/7/2018									99
8/8/2018							166		
9/19/2018						186			
9/24/2018									
9/25/2018	109	63	73	122	86				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								92	
2/26/2019							293		109
3/26/2019									
3/27/2019						170			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				134	72				
4/3/2019	89	63	57						
6/12/2019							391	226	
6/13/2019									136
9/24/2019				157					
9/25/2019			75		81				
9/26/2019	126	72							
10/8/2019						172		276	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							372		
10/10/2019									109
3/17/2020						165		185	175
3/18/2020							351		
3/19/2020									
3/24/2020	91	59	76	117	71				
3/25/2020									
9/22/2020						141	394	281	110
9/23/2020	103	81			99				
9/24/2020			69	113					
9/25/2020									
3/1/2021						145	516		
3/2/2021								296 (D)	167
3/3/2021	95	37	53		57				
3/4/2021				110					
8/18/2021							474		214
8/19/2021						134			
8/20/2021								254	
8/26/2021		31							
8/27/2021	112		67		93				
9/1/2021				137					
9/3/2021									
2/8/2022						151		283	231
2/9/2022	103	60	72	131	81		466		
2/10/2022									
2/11/2022									
8/30/2022	100	52		122	81			244	150
8/31/2022			62			116	510		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	616						
9/1/2016		578	1400	553			
9/13/2016							
9/14/2016					152		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					148		
11/14/2016							
11/28/2016							
11/29/2016	594	455					
11/30/2016				247 (B)			
12/1/2016			1610 (B)				
12/15/2016					191		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					180		
2/21/2017							
2/22/2017							
2/23/2017	581	614					
2/24/2017			1200	414			
3/1/2017							
3/2/2017							
3/3/2017					156		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					130		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	410						
5/10/2017		955	1360	251			
5/26/2017					223		
6/27/2017							
6/28/2017					166		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			1340				
7/18/2017	322	1270		179			
10/3/2017					153		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						68	
10/12/2017							74
10/16/2017			1080				
10/17/2017	381			256			
10/18/2017		1150					
11/20/2017						139	179
1/10/2018							140
1/11/2018						153	
2/19/2018		1070					119
2/20/2018				233		87	
2/21/2018	285		830				
4/2/2018							
4/3/2018						85	106
6/5/2018							
6/6/2018							
6/7/2018					146		
6/8/2018							
6/11/2018							
6/28/2018						88	112
8/6/2018		1260					
8/7/2018	242		1180			89	103
8/8/2018				292			
9/19/2018							
9/24/2018						82	107
9/25/2018							
9/26/2018							
10/1/2018					155		
10/2/2018							
2/25/2019		1160					
2/26/2019	69		1010	226			
3/26/2019							90
3/27/2019						75	
3/28/2019							
3/29/2019					150		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019				298			
6/13/2019	301	1310	1410				
9/24/2019					146		
9/25/2019							
9/26/2019							
10/8/2019		1050					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	526		1680			119	98
10/10/2019				247			
3/17/2020	306	588					
3/18/2020			1520	703			
3/19/2020					148		
3/24/2020							84
3/25/2020						158	
9/22/2020	675			217			
9/23/2020		820	1000		161		
9/24/2020						170	77
9/25/2020							
3/1/2021	974			666			
3/2/2021			980				
3/3/2021		942			138		
3/4/2021						168	57
8/18/2021	1200	682	1660	630			
8/19/2021							
8/20/2021							
8/26/2021						249	
8/27/2021					150		
9/1/2021							
9/3/2021							88
2/8/2022	1310	549		648		248	93
2/9/2022			1440		156		
2/10/2022							
2/11/2022							
8/30/2022	1600	400	1570	628	153		
8/31/2022						242	92

FIGURE G.

Trend Test Summary (Prediction Limit Exceedances) - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.453	82	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	6.93	90	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1364	109	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.08039	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.6514	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-11 (bg)	-0.09504	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-211 (bg)	0.9751	97	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.342	-95	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.676	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.896	67	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04438	-195	-161	Yes	32	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05687	-138	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-211 (bg)	0.1311	120	98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2106	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0405	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.0501	-99	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.07627	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0	100	87	Yes	21	71.43	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	17.26	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	30.08	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	121	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.631	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3364	89	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.016	86	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.899	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-17.58	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.862	-129	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08795	115	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	60.19	82	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	23	63	No	17	64.71	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-2R	0.01449	53	63	No	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.2837	34	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.000665	-40	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0001704	22	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-22	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.000309	24	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0008221	34	74	No	19	36.84	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-8	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-9	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.0004731	-56	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-6	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01331	56	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	0	74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0008357	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	1	74	No	19	68.42	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	31	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-25	-74	No	19	63.16	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.453	82	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1R	16.13	40	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	6.93	90	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-4R	4.726	48	63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	4.933	50	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	-4.001	-15	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	0	-15	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1364	109	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.04637	26	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.08039	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.6514	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.09504	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.03848	54	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.9751	97	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.08578	13	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.0125	31	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.273	55	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.4525	59	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5467	60	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.6546	-42	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.342	-95	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.04736	10	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.676	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06231	74	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.896	67	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-4R	8.737	26	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1251	51	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1557	72	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-37	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01802	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1148	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02221	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.768	51	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.02929	-65	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08123	41	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	5	74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04438	-195	-161	Yes	32	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-14S (bg)	-0.01086	-32	-98	No	23	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results Page 2

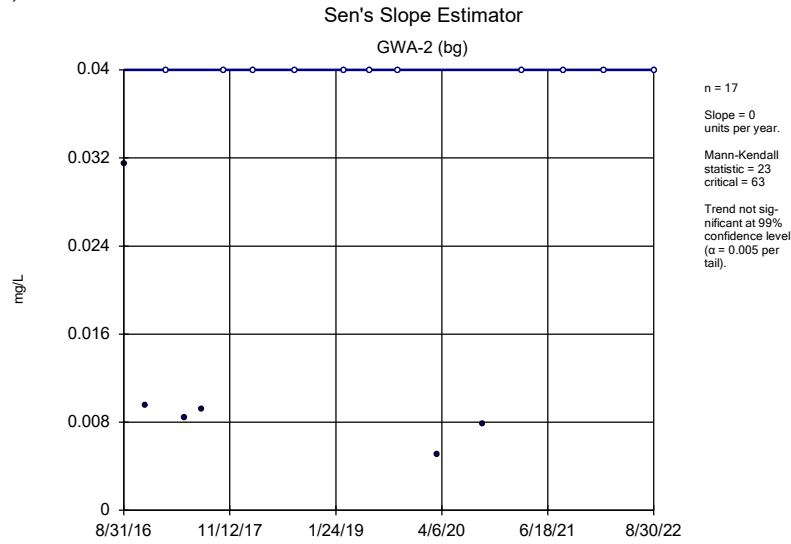
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	YGWA-17S (bg)	-0.01344	-86	-92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18I (bg)	-0.02714	-70	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05687	-138	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1D (bg)	-0.05026	-77	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.03356	-69	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.01912	54	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.1311	120	98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-2I (bg)	-0.02039	-33	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.002761	9	92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2106	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3D (bg)	-0.007396	-18	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.02691	-45	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	-0.05563	-28	-74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0405	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.0501	-99	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.07627	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5I (bg)	-0.02829	-70	-98	No	23	0	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	206	No	38	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	35	139	No	29	44.83	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0	100	87	Yes	21	71.43	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18I (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	39	92	No	22	90.91	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	3	68	No	18	94.44	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	-0.0004047	-36	-68	No	18	38.89	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	19	43	No	13	84.62	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	5	92	No	22	90.91	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	19	92	No	22	95.45	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	17.26	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-1R	53.16	32	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	30.08	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-5R	-5.906	-4	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-50.61	-32	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0	-4	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.04813	32	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1345	-67	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1232	-53	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	121	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.1053	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2256	-45	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.041	62	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.01853	-15	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.631	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3364	89	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.016	86	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.899	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-17.58	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.04641	22	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.862	-129	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08795	115	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-1R	114.2	34	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	60.19	82	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-4R	29.83	31	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	14.04	8	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	-39.39	-20	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	3.694	44	74	No	19	0	n/a	n/a	0.01	NP

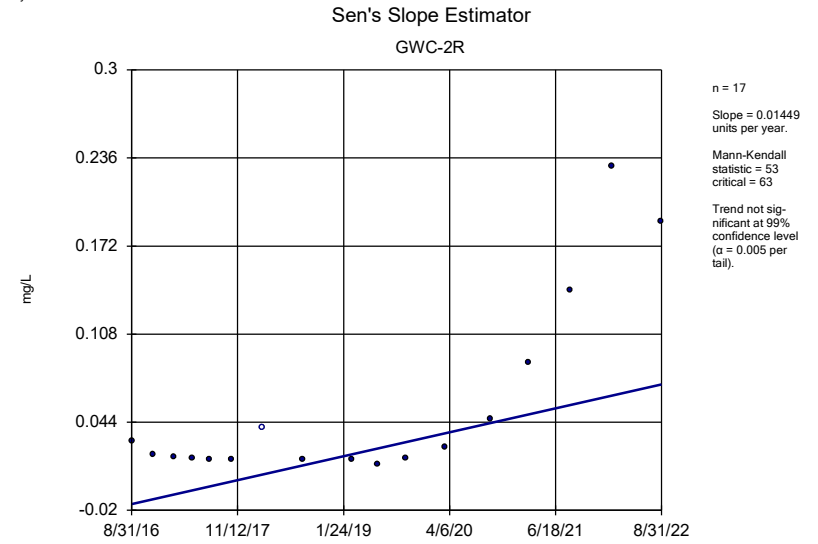
Trend Test Summary (Prediction Limit Exceedances) - All Results Page 3

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

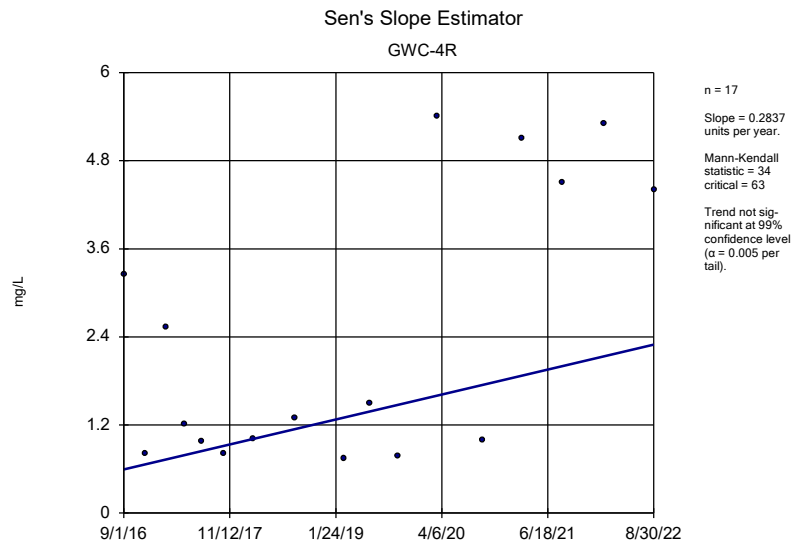
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	YGWA-18I (bg)	-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	2.688	34	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	10.54	68	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	0.954	9	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-4I (bg)	0	-1	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5I (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP



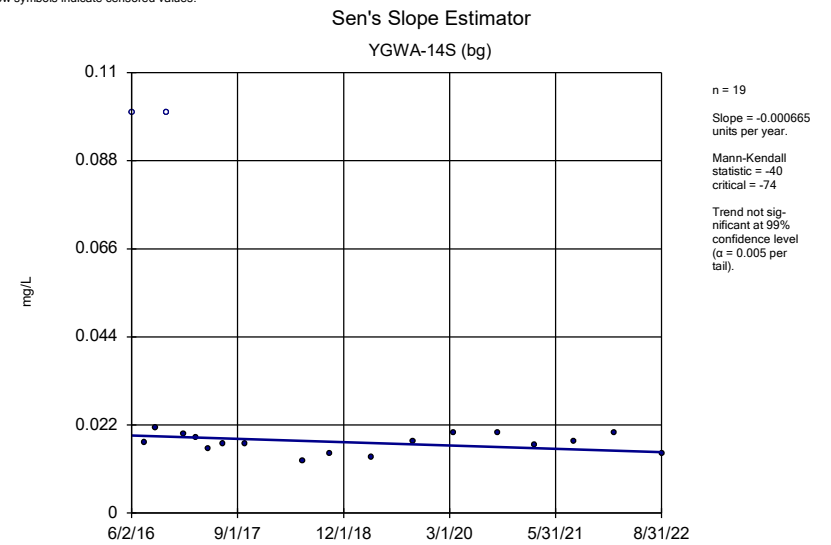
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

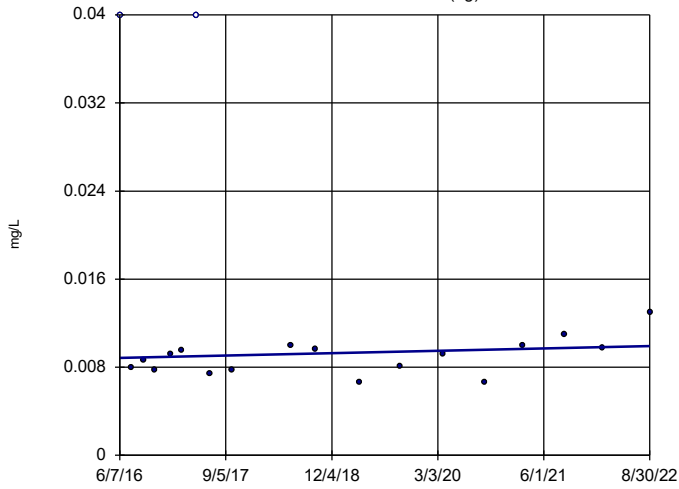


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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



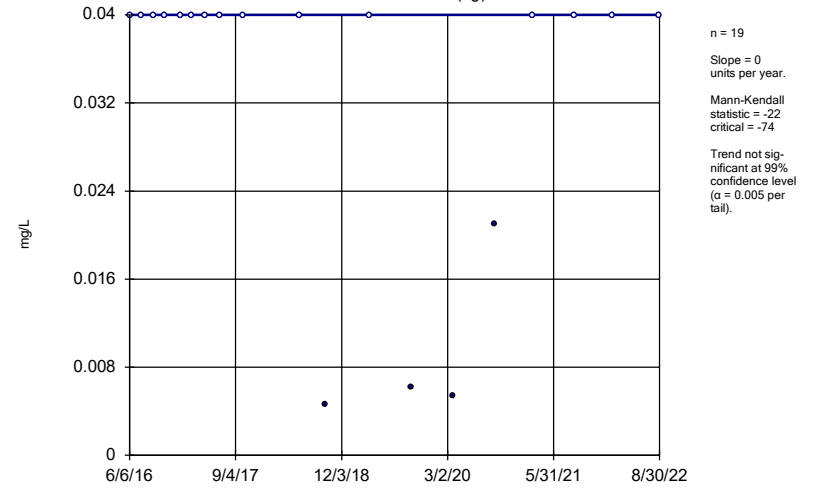
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-17S (bg)



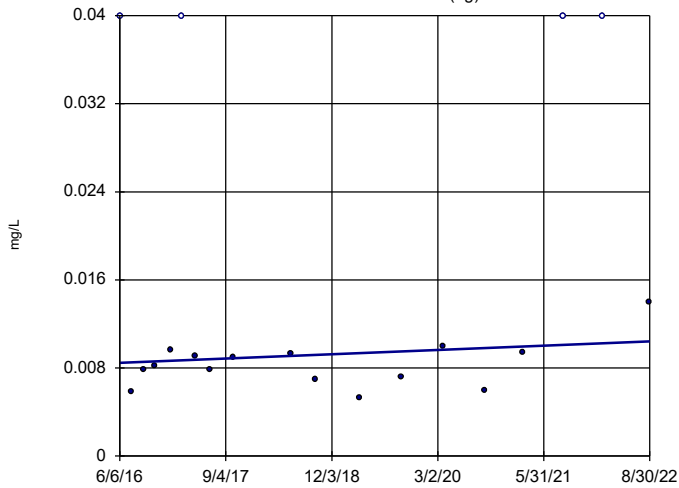
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-18I (bg)



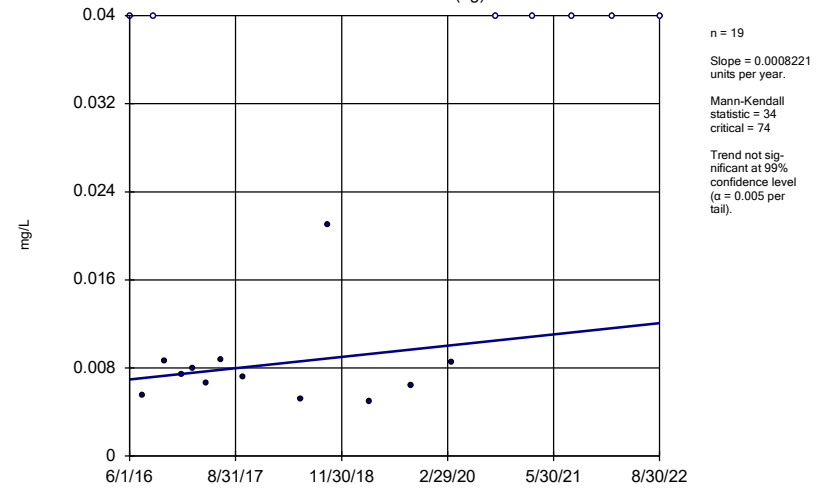
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-18S (bg)



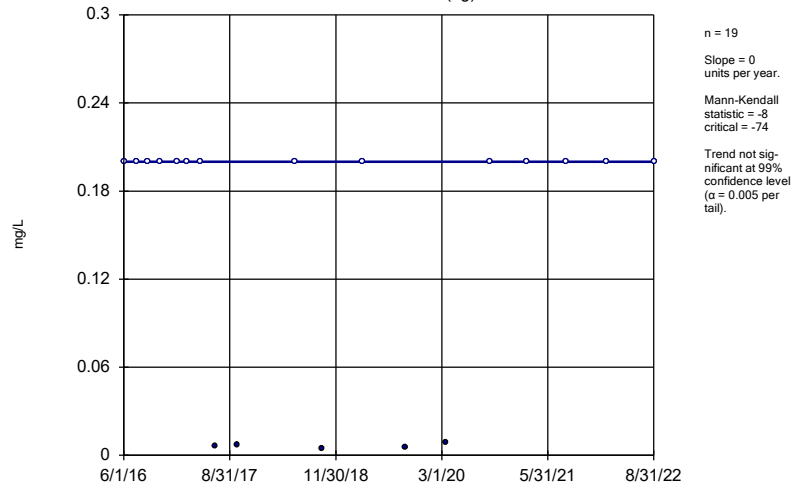
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-1D (bg)



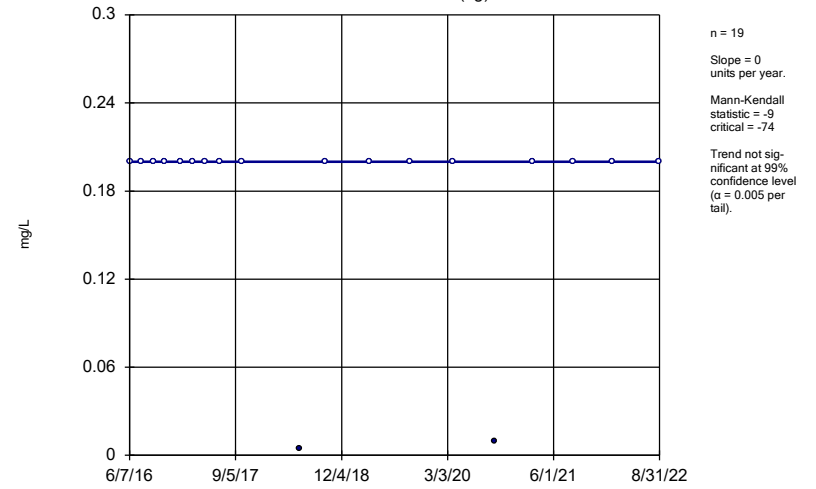
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-11 (bg)



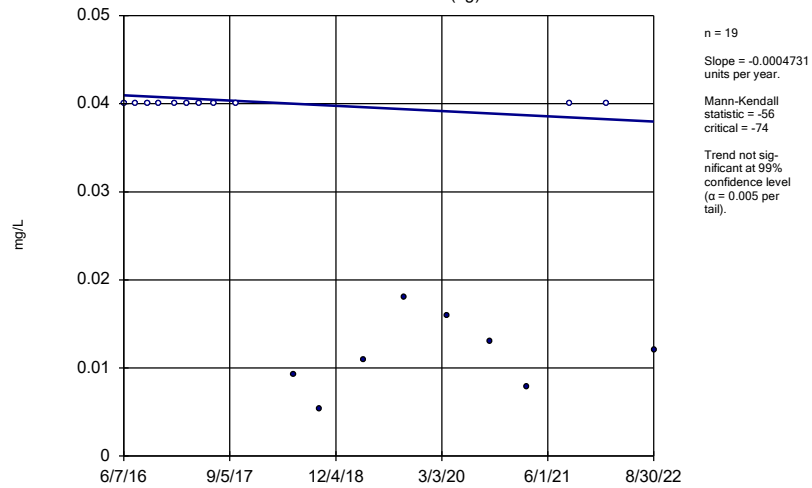
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-20S (bg)



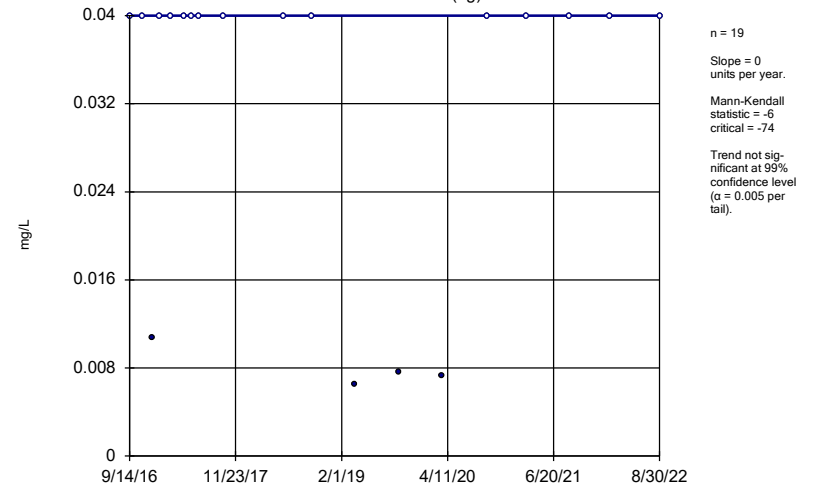
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-21I (bg)

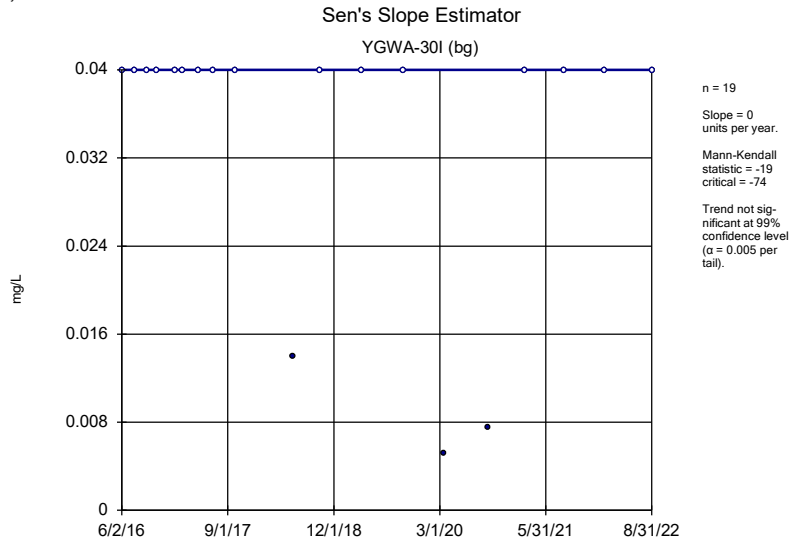


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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

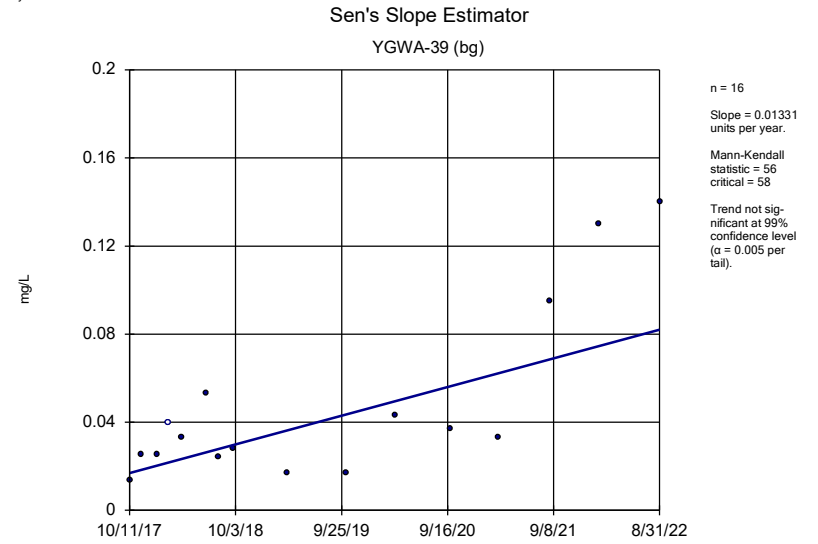
Sen's Slope Estimator YGWA-2I (bg)



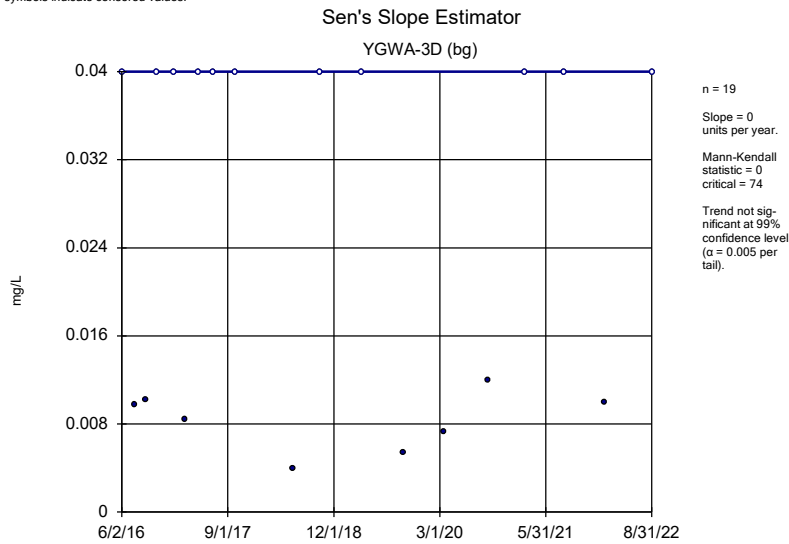
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



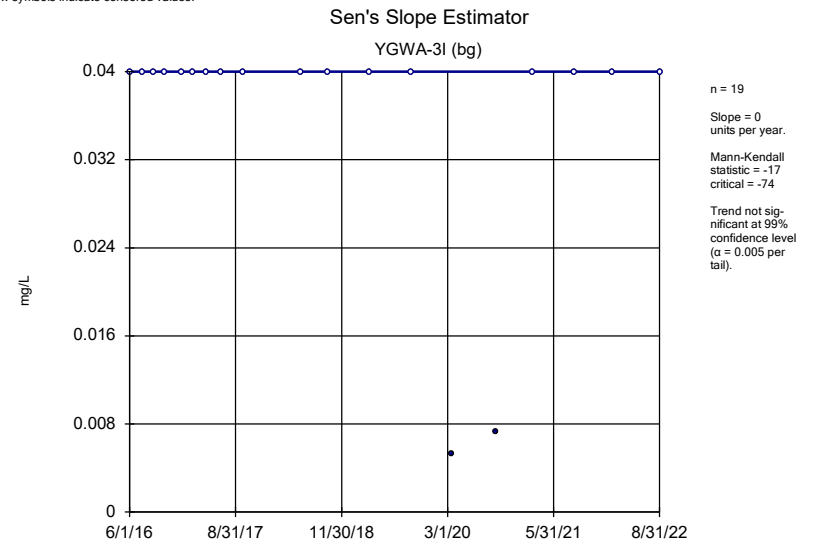
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

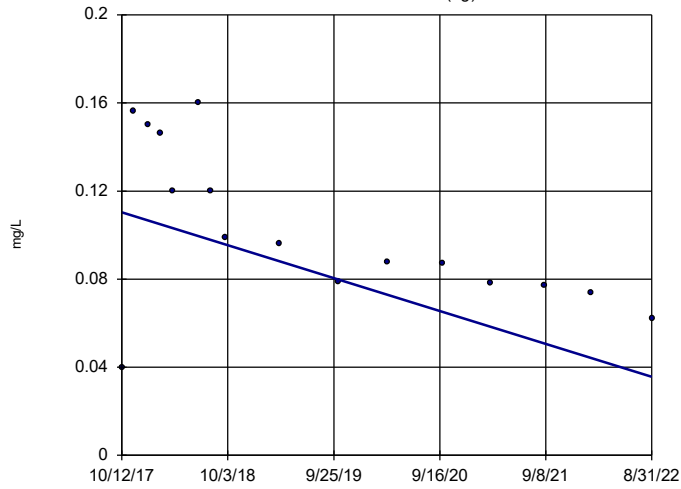


Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



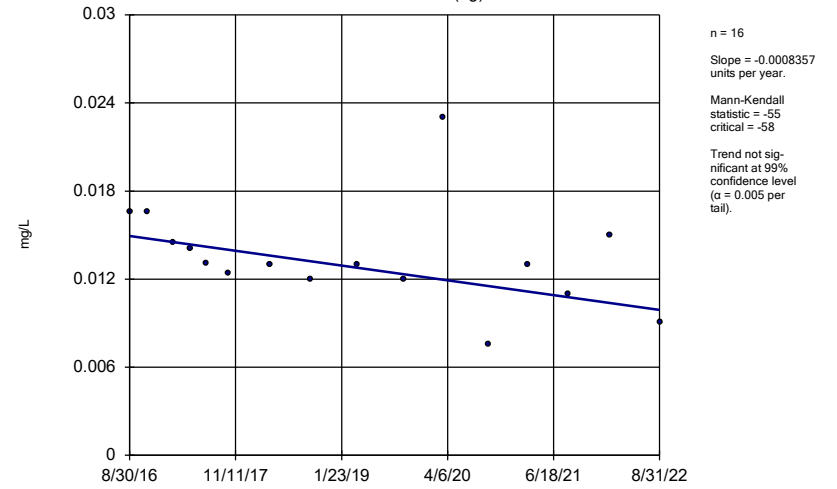
Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-40 (bg)



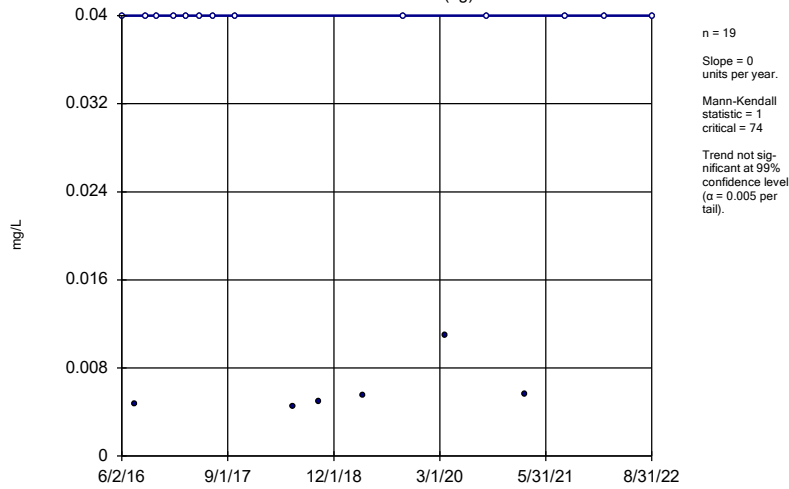
Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-47 (bg)



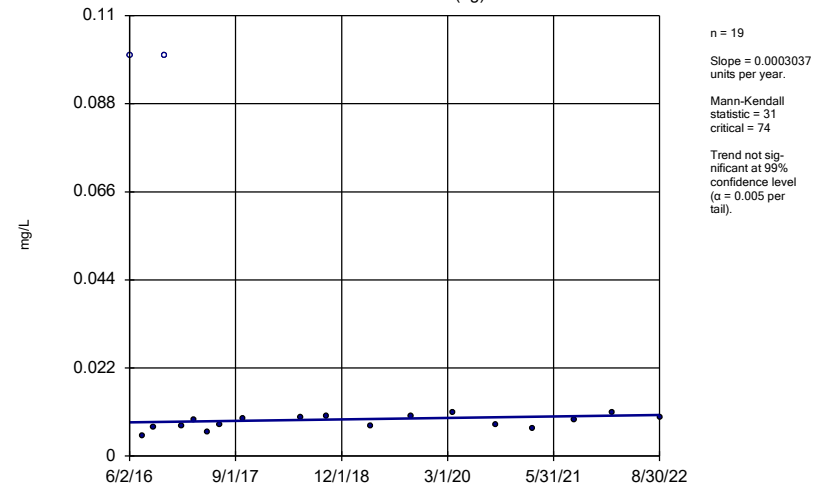
Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-41 (bg)

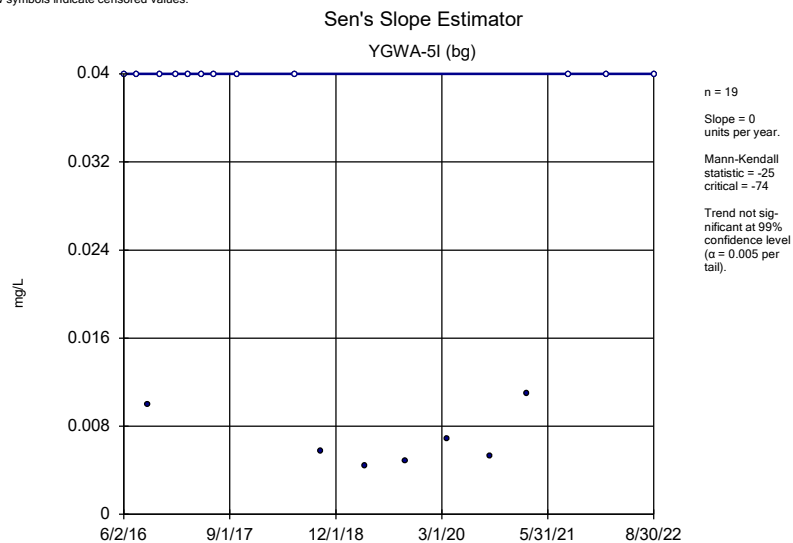


Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

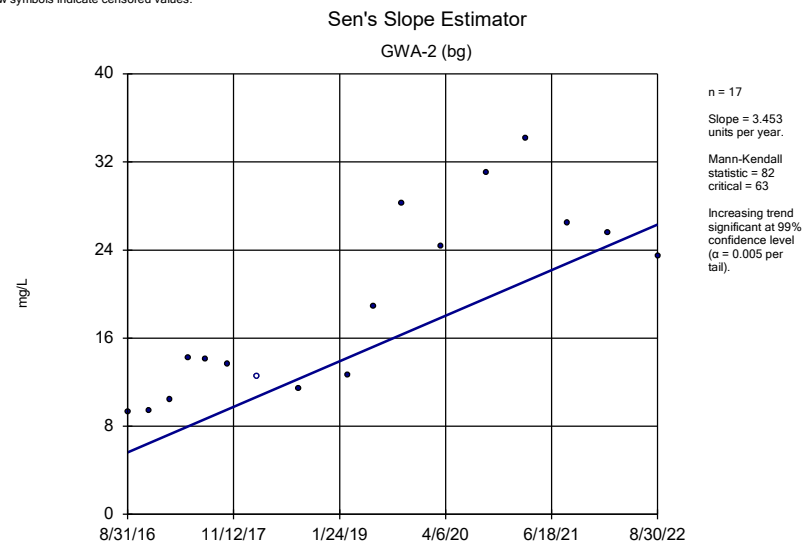
Sen's Slope Estimator YGWA-5D (bg)



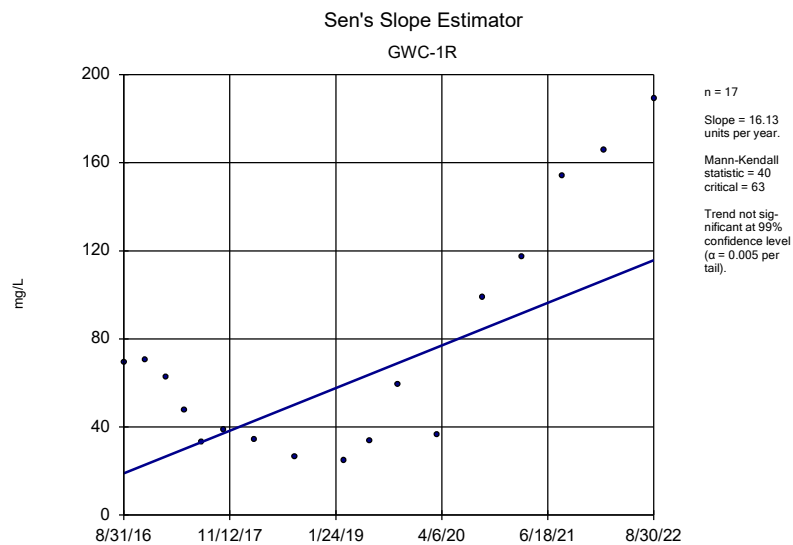
Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



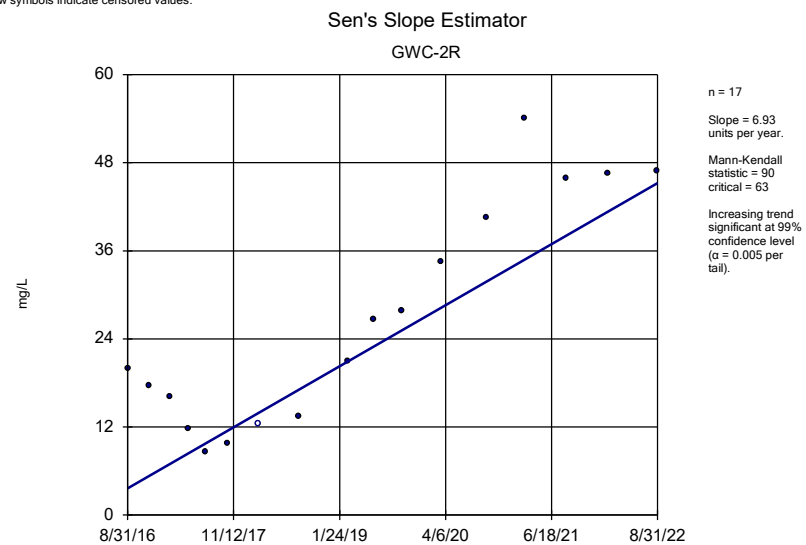
Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

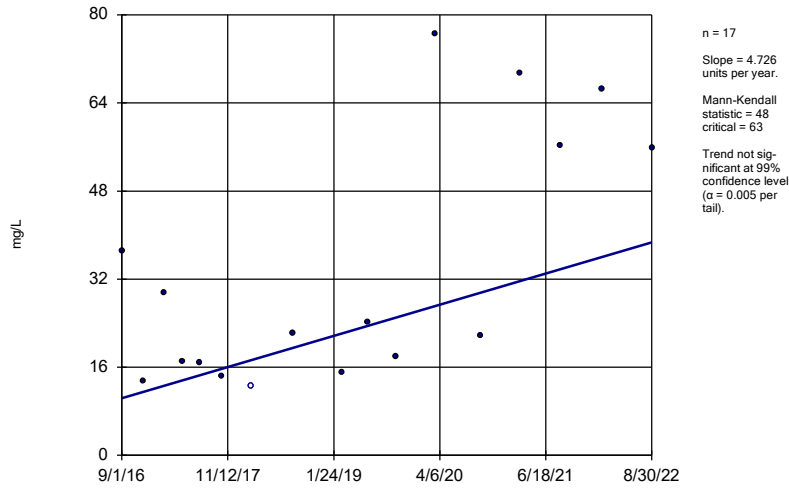


Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



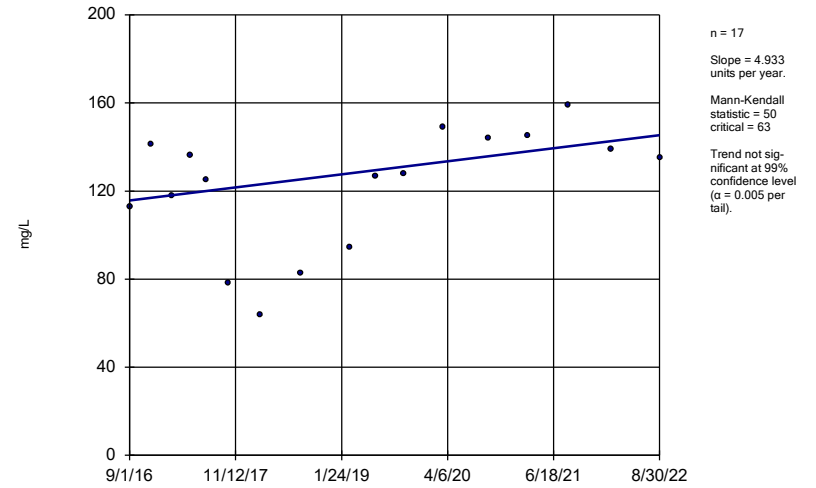
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-4R



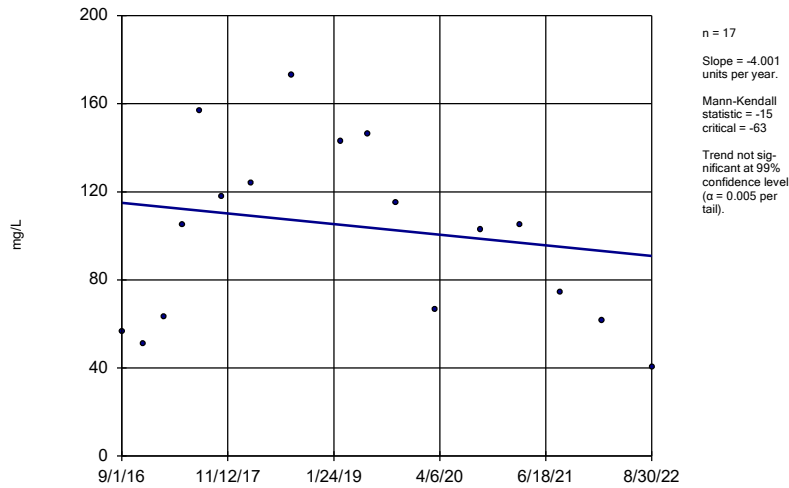
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



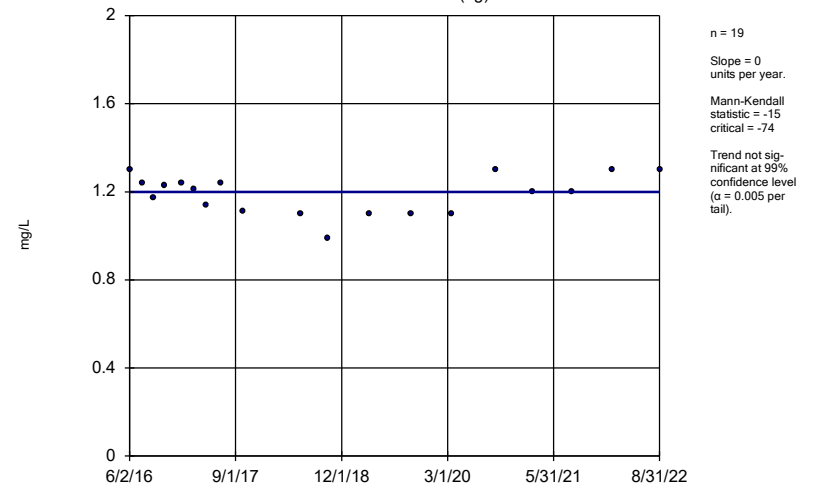
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-6R



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

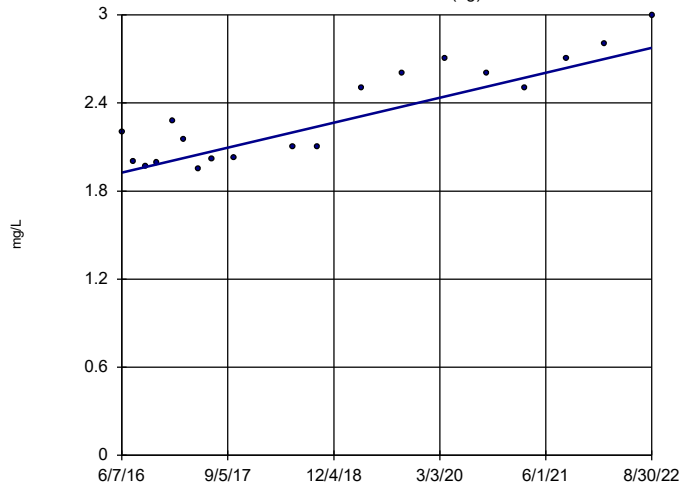
Sen's Slope Estimator YGWA-14S (bg)



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

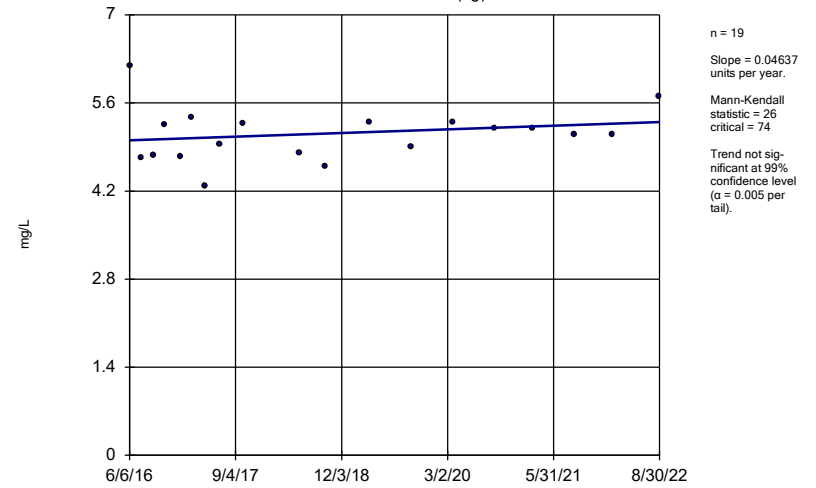
YGWA-17S (bg)



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

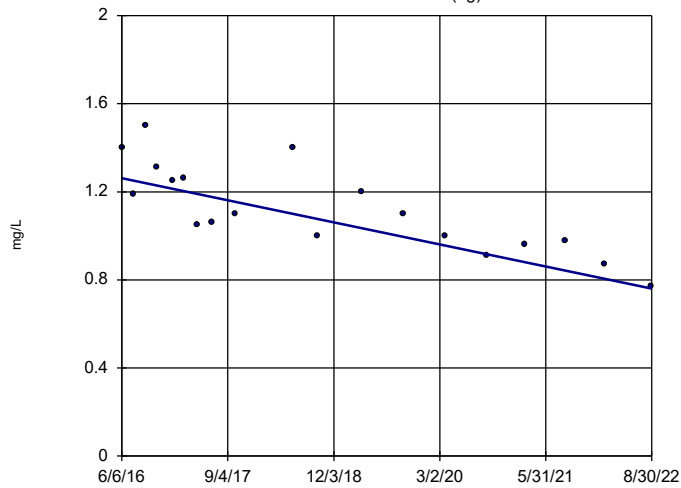
YGWA-18I (bg)



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

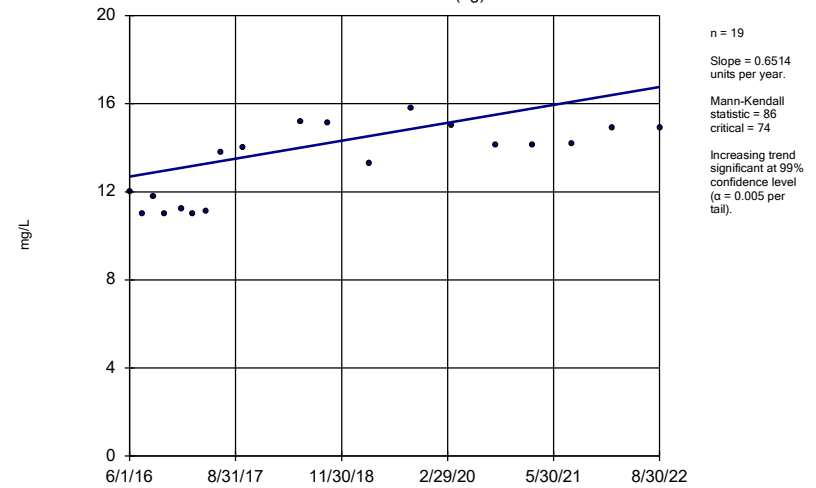
YGWA-18S (bg)



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

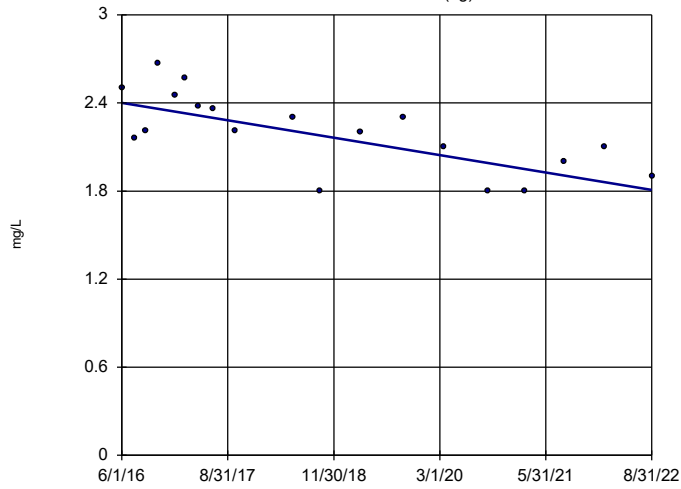
YGWA-1D (bg)



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-11 (bg)

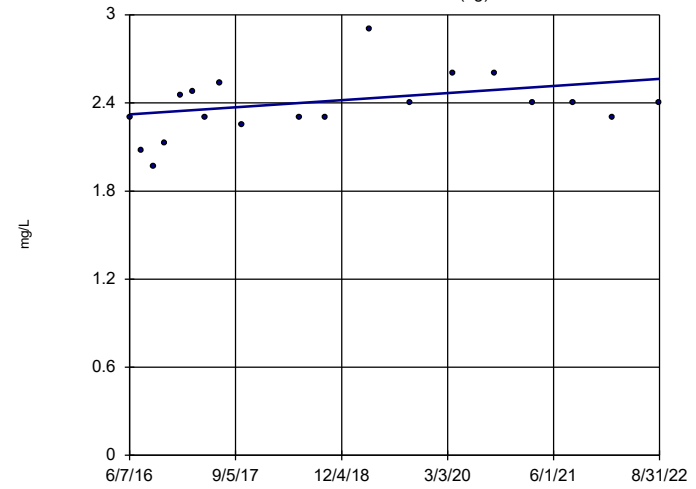


n = 19
 Slope = -0.09504
 units per year.
 Mann-Kendall
 statistic = -93
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-20S (bg)

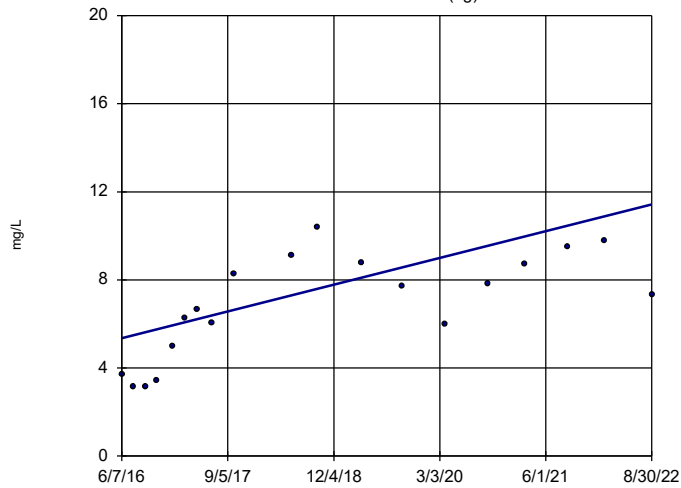


n = 19
 Slope = 0.03848
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-21I (bg)

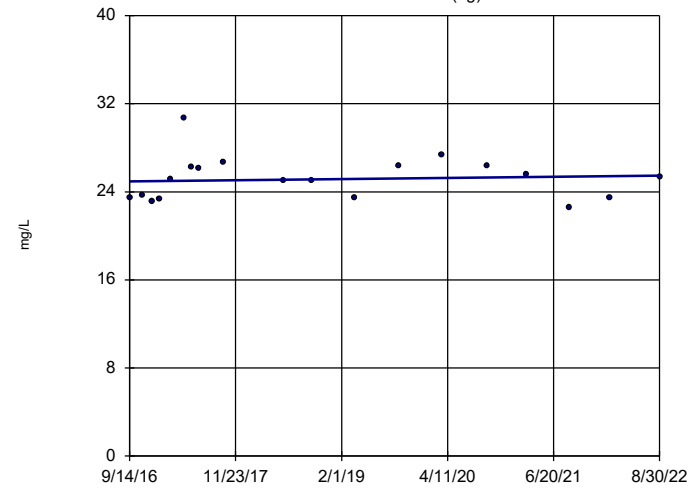


n = 19
 Slope = 0.9751
 units per year.
 Mann-Kendall
 statistic = 97
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-2I (bg)

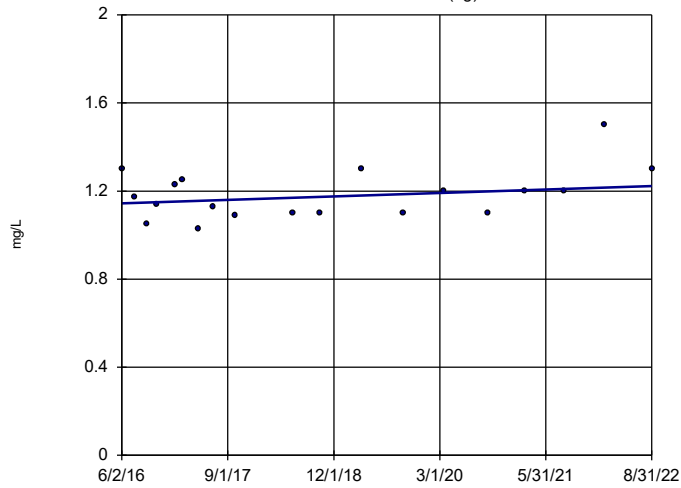


n = 19
 Slope = 0.08578
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-30I (bg)

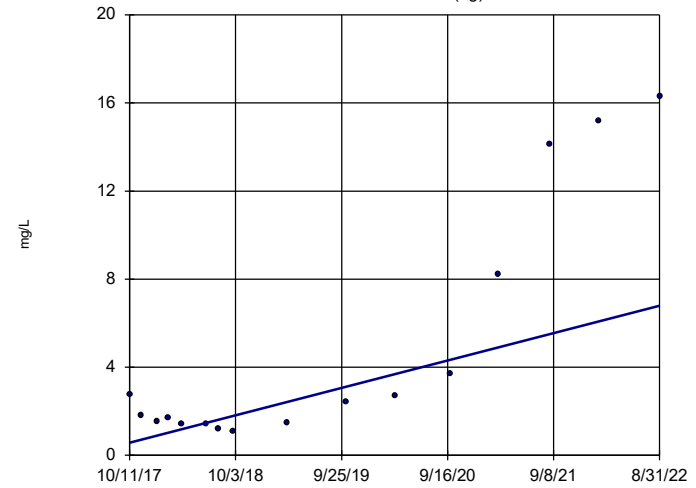


n = 19
 Slope = 0.0125
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)

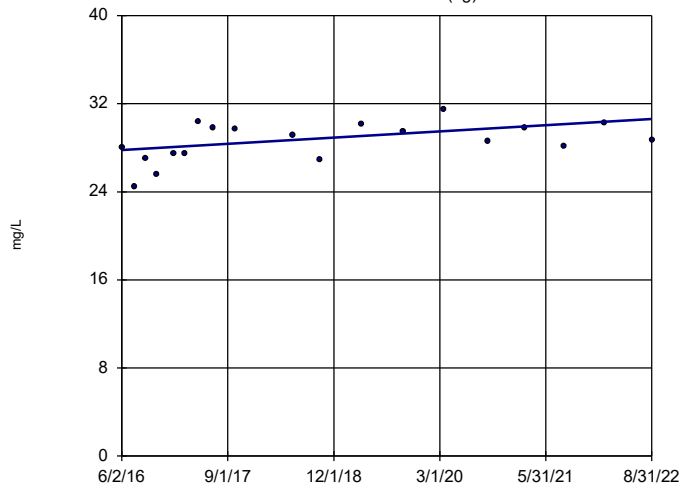


n = 16
 Slope = 1.273
 units per year.
 Mann-Kendall
 statistic = 55
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)

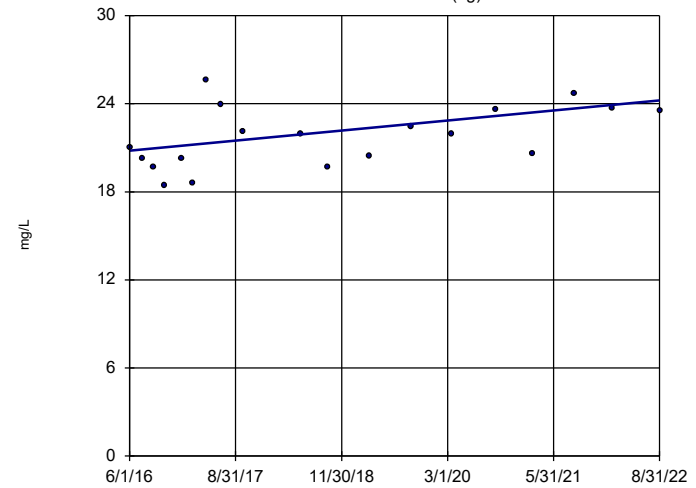


n = 19
 Slope = 0.4525
 units per year.
 Mann-Kendall
 statistic = 59
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

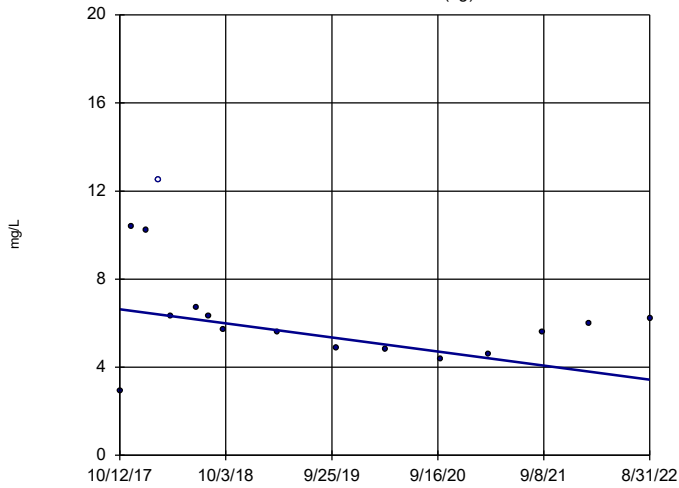
YGWA-3I (bg)



n = 19
 Slope = 0.5467
 units per year.
 Mann-Kendall
 statistic = 60
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

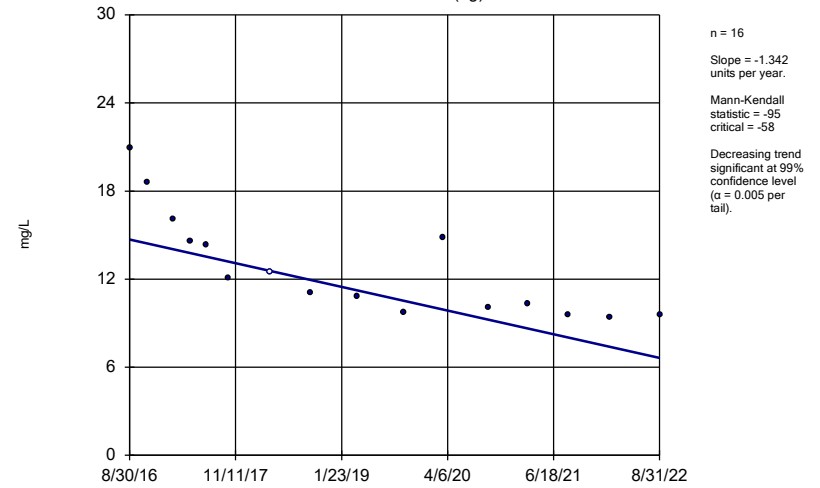
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-40 (bg)



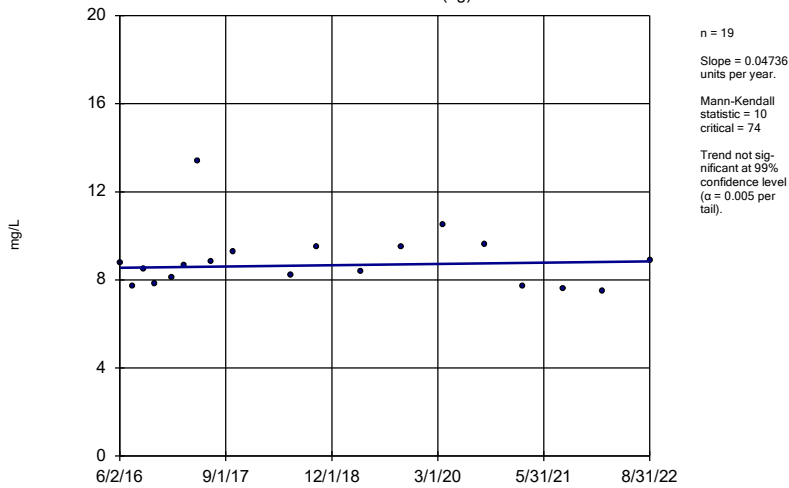
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-47 (bg)



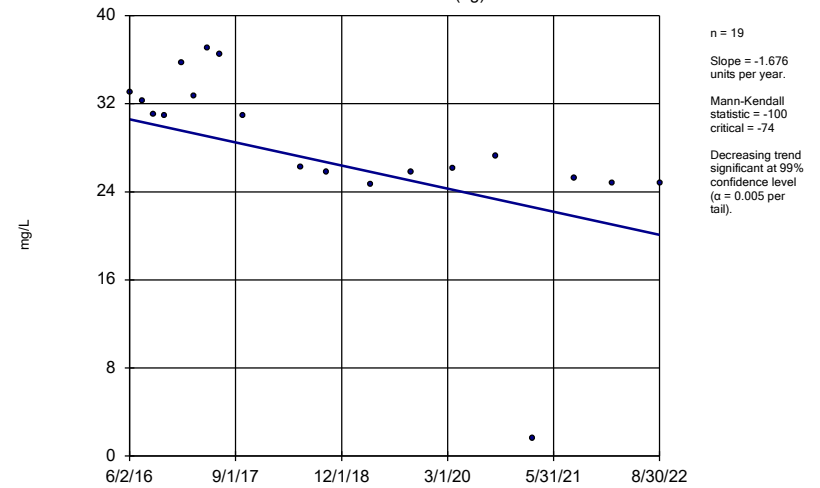
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-41 (bg)



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

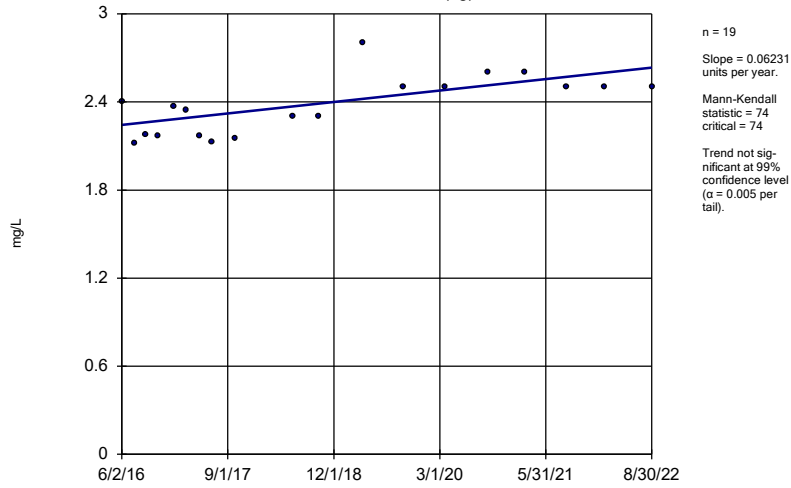
Sen's Slope Estimator
YGWA-5D (bg)



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

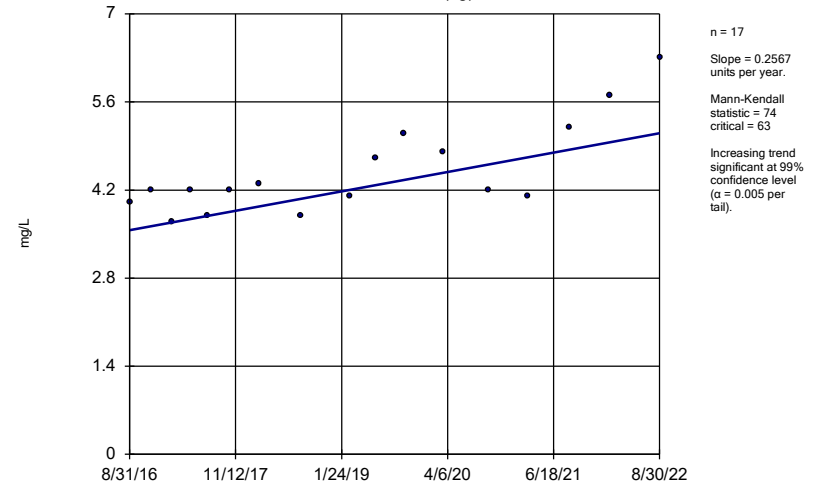
YGWA-5I (bg)



Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

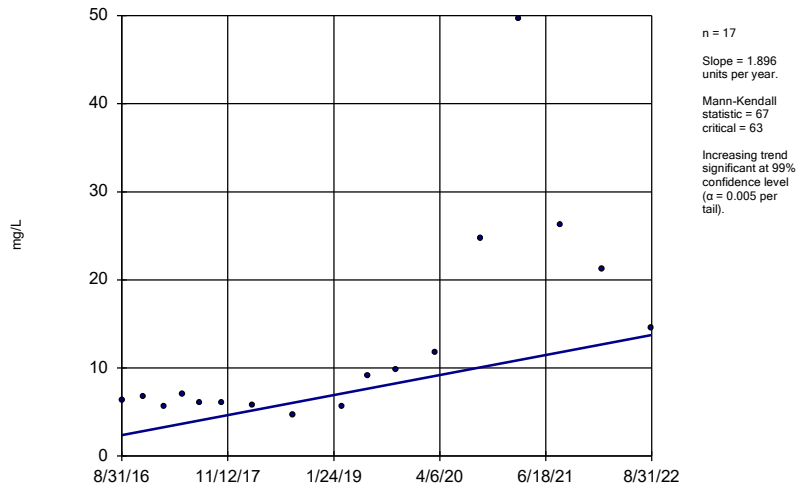
GWA-2 (bg)



Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

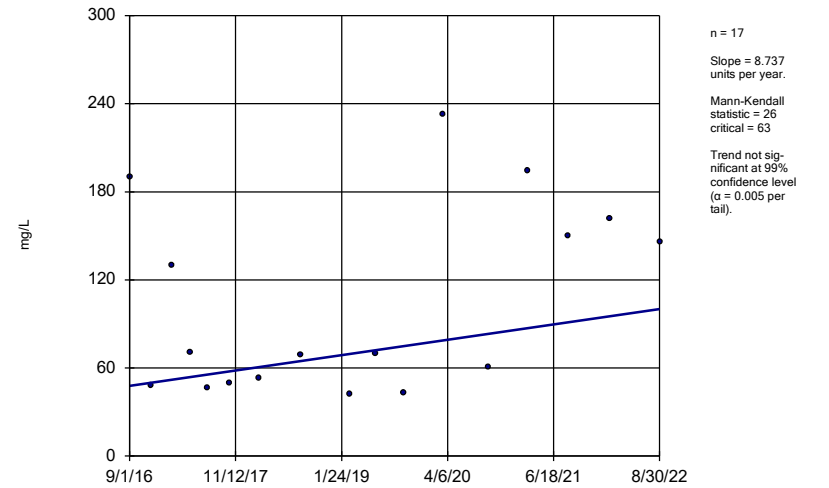
GWC-2R



Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

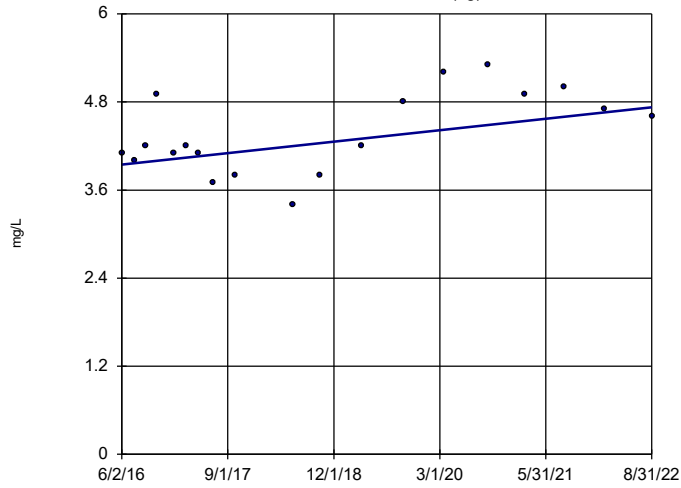
GWC-4R



Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-14S (bg)

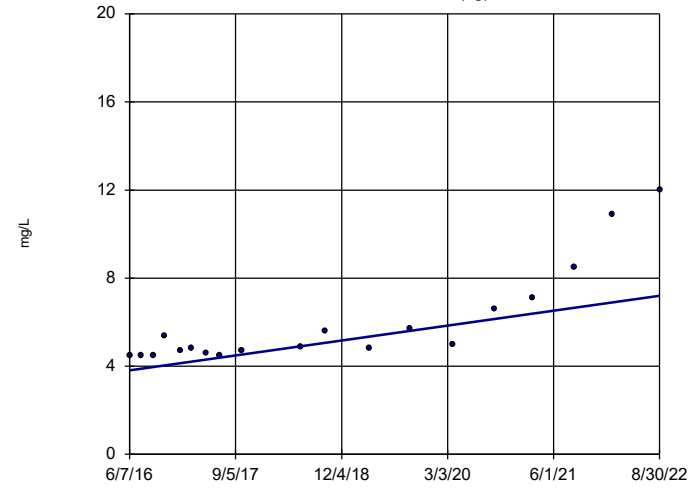


n = 19
 Slope = 0.1251
 units per year.
 Mann-Kendall
 statistic = 51
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)

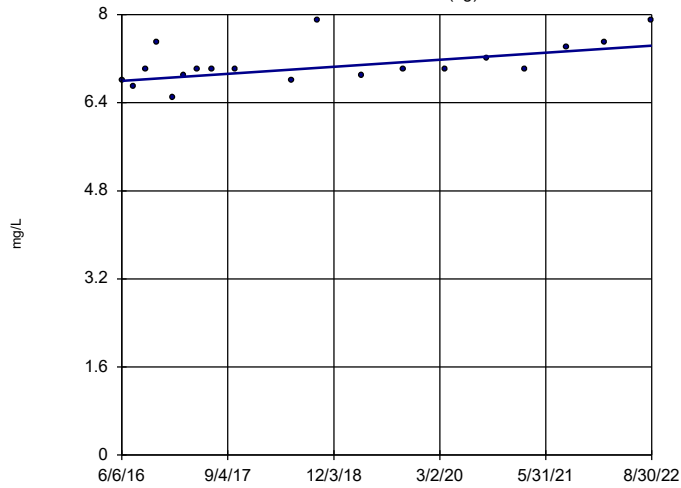


n = 19
 Slope = 0.5433
 units per year.
 Mann-Kendall
 statistic = 127
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)

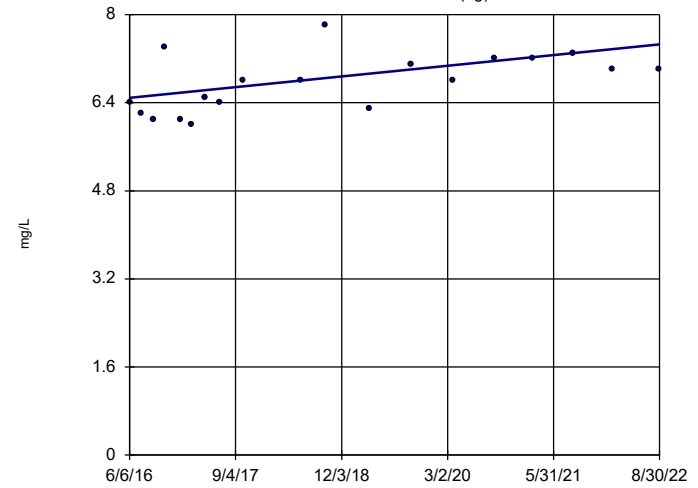


n = 19
 Slope = 0.1027
 units per year.
 Mann-Kendall
 statistic = 78
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18S (bg)

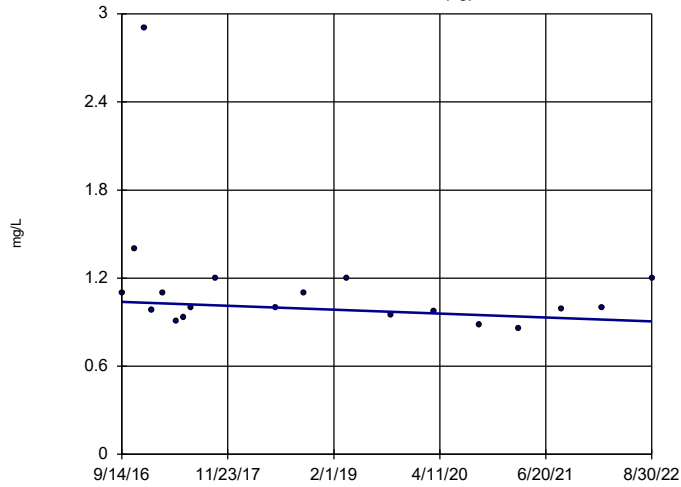


n = 19
 Slope = 0.1557
 units per year.
 Mann-Kendall
 statistic = 72
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-21 (bg)

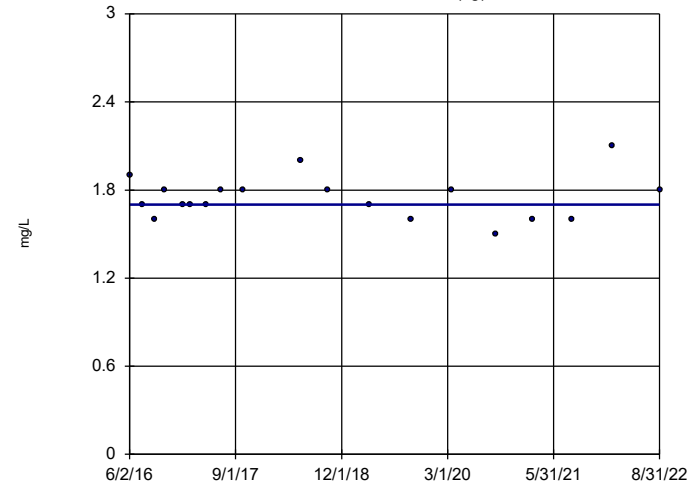


n = 19
 Slope = -0.02221
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-30I (bg)

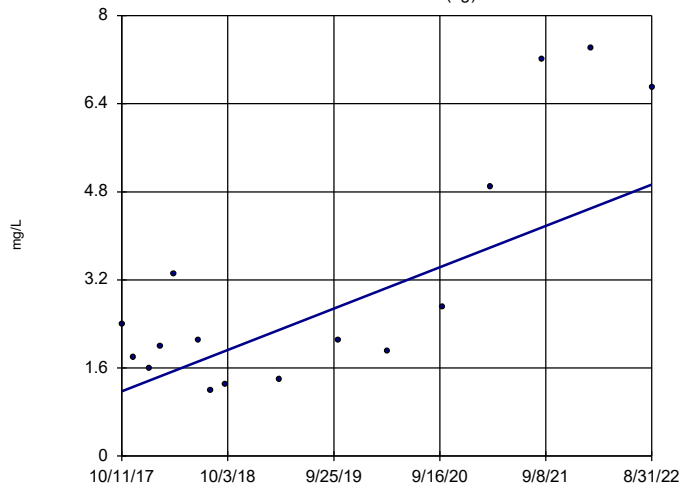


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -8
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)

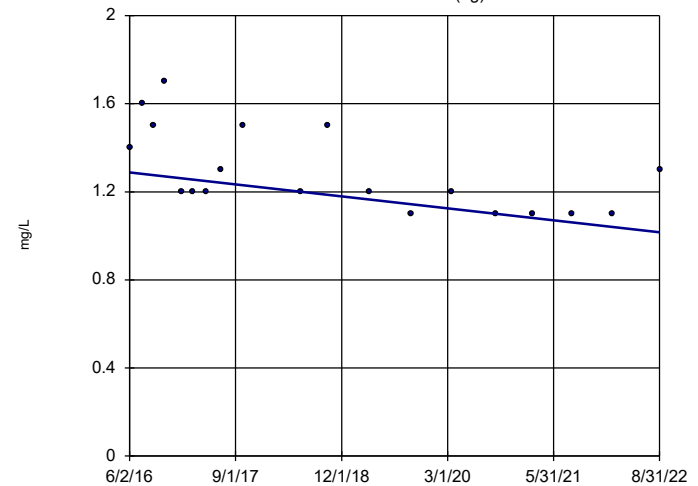


n = 16
 Slope = 0.768
 units per year.
 Mann-Kendall
 statistic = 51
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)

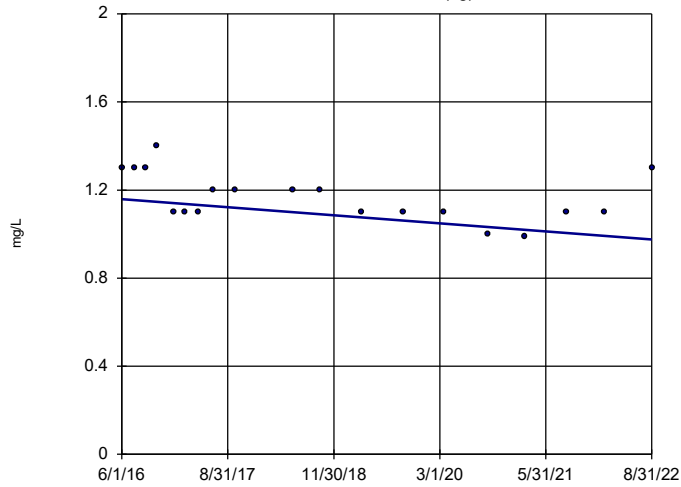


n = 19
 Slope = -0.0435
 units per year.
 Mann-Kendall
 statistic = -80
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-31 (bg)

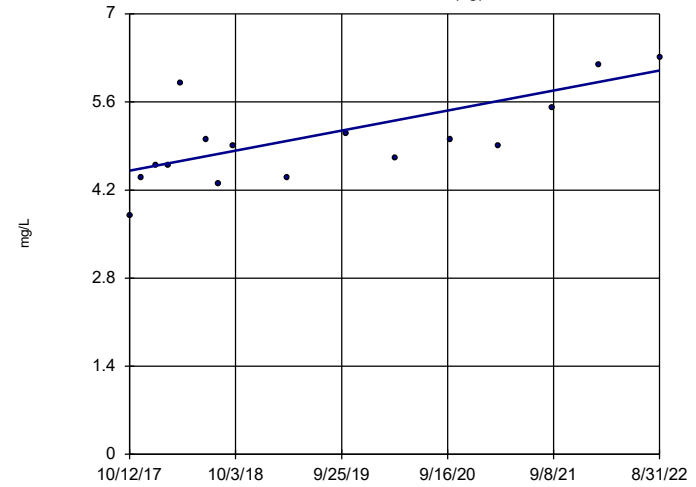


n = 19
 Slope = -0.02929
 units per year.
 Mann-Kendall
 statistic = -65
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)

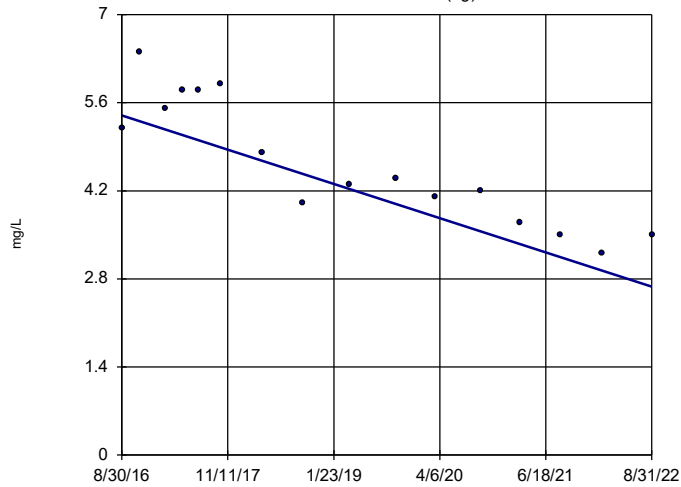


n = 16
 Slope = 0.326
 units per year.
 Mann-Kendall
 statistic = 66
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-47 (bg)

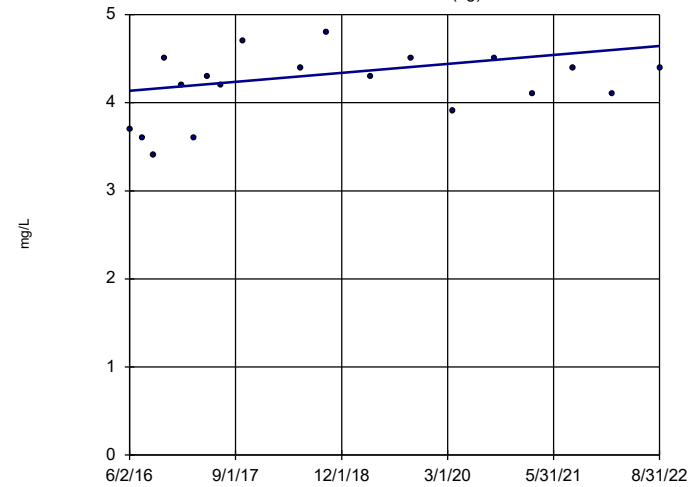


n = 16
 Slope = -0.4528
 units per year.
 Mann-Kendall
 statistic = -84
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

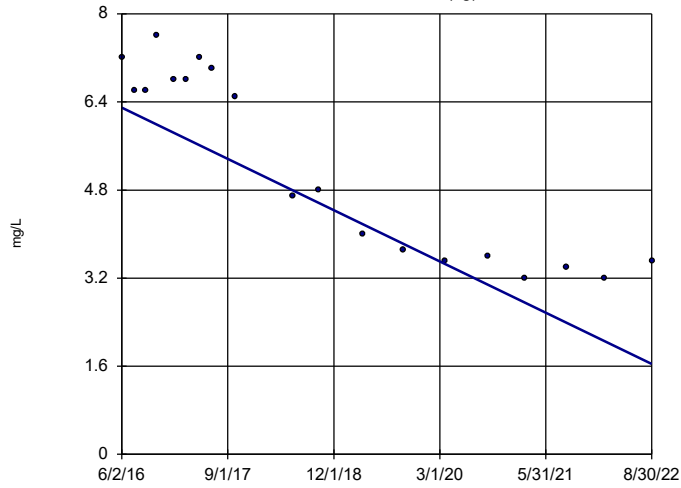
YGWA-41 (bg)



n = 19
 Slope = 0.08123
 units per year.
 Mann-Kendall
 statistic = 41
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

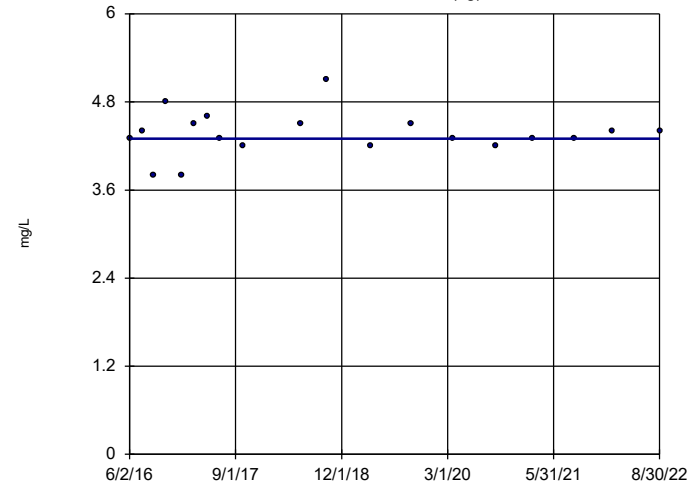
Sen's Slope Estimator YGWA-5D (bg)



n = 19
 Slope = -0.7454
 units per year.
 Mann-Kendall
 statistic = -124
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

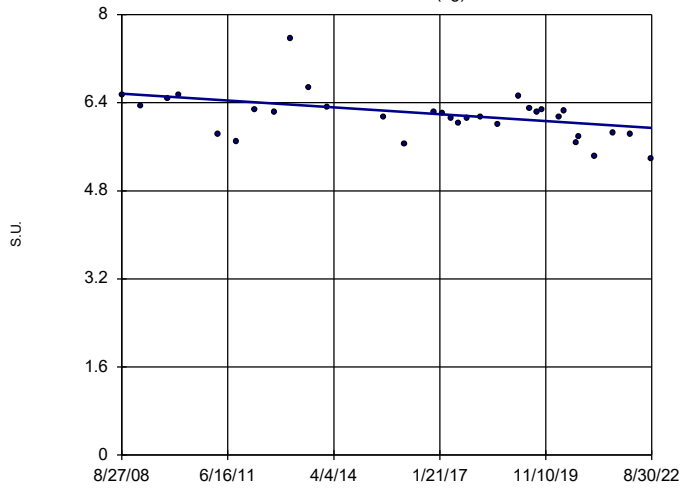
Sen's Slope Estimator YGWA-5I (bg)



n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

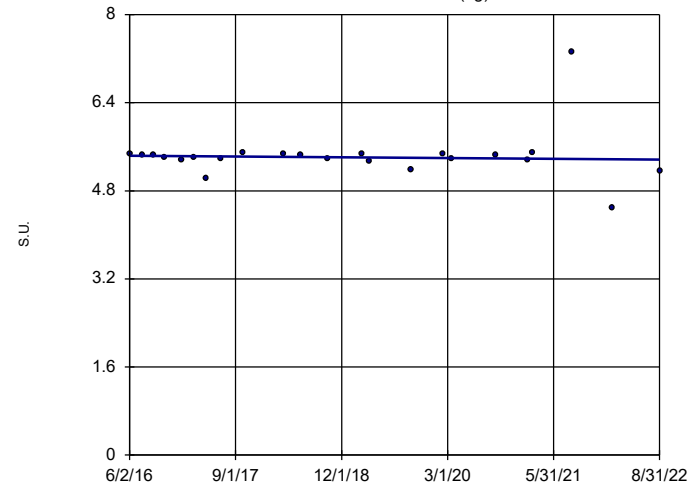
Sen's Slope Estimator GWA-2 (bg)



n = 32
 Slope = -0.04438
 units per year.
 Mann-Kendall
 statistic = -195
 critical = -161
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-14S (bg)

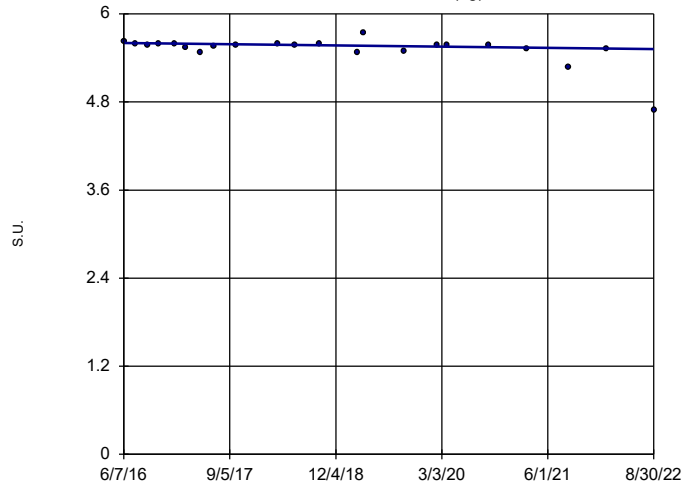


n = 23
 Slope = -0.01086
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)

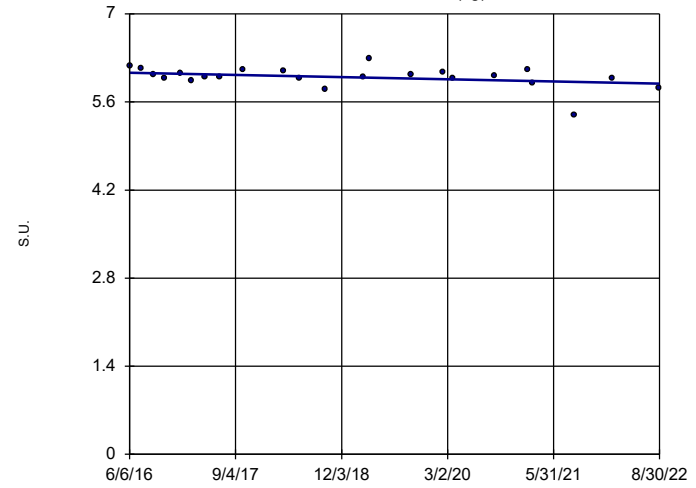


n = 22
 Slope = -0.01344
 units per year.
 Mann-Kendall
 statistic = -86
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)

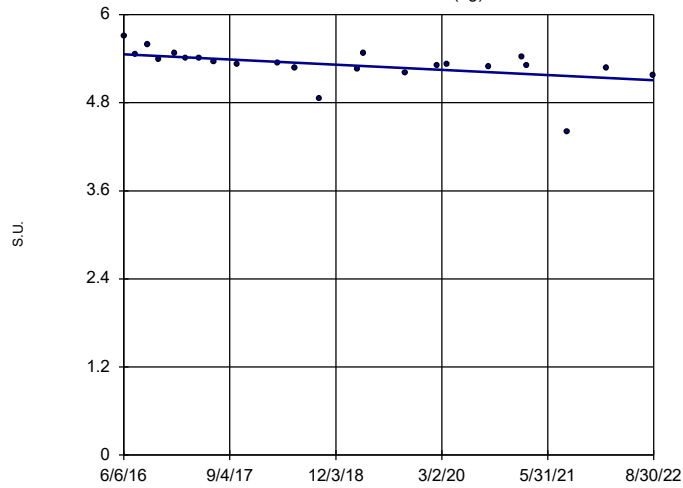


n = 23
 Slope = -0.02714
 units per year.
 Mann-Kendall
 statistic = -70
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18S (bg)

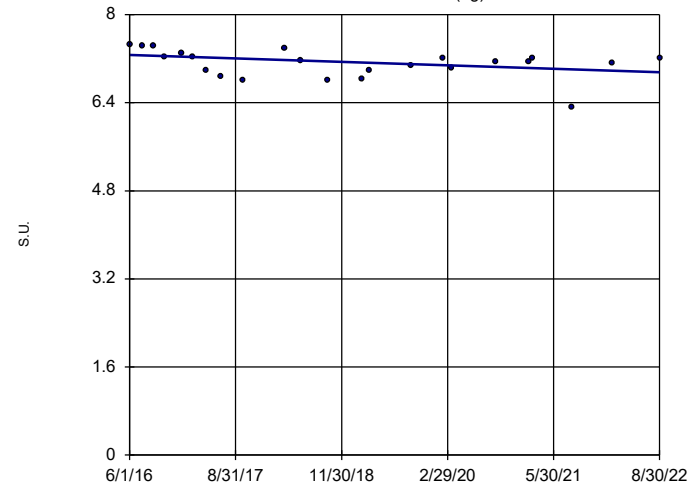


n = 23
 Slope = -0.05687
 units per year.
 Mann-Kendall
 statistic = -138
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

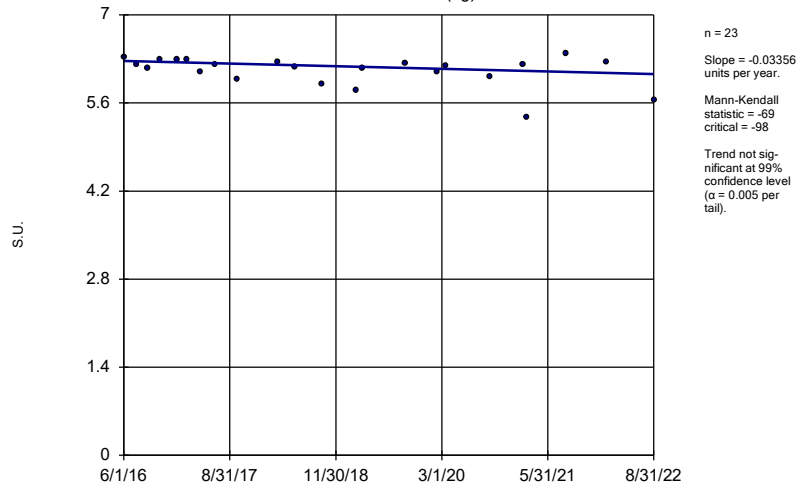
YGWA-1D (bg)



n = 23
 Slope = -0.05026
 units per year.
 Mann-Kendall
 statistic = -77
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

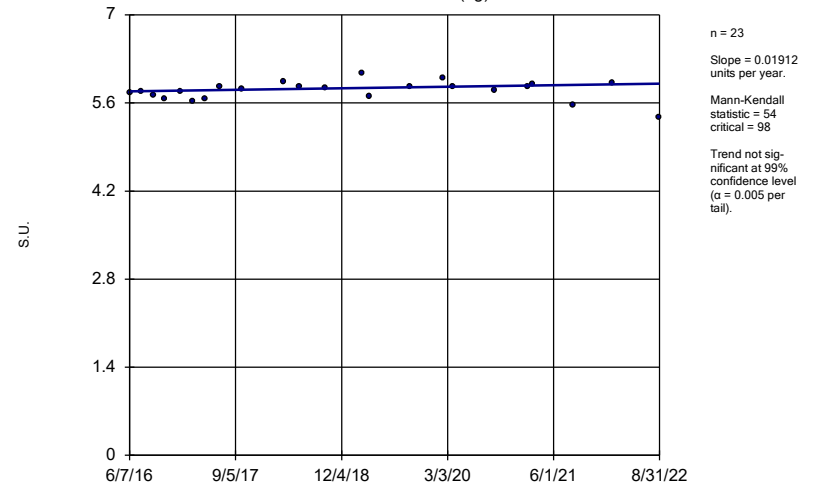
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-11 (bg)



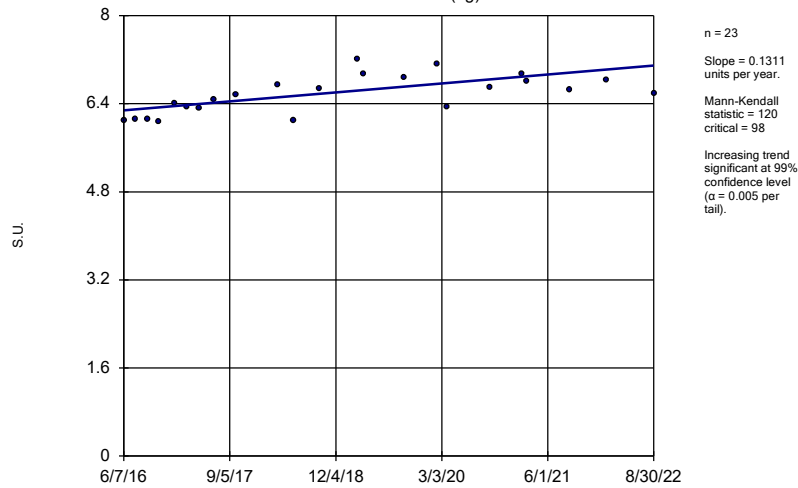
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-20S (bg)



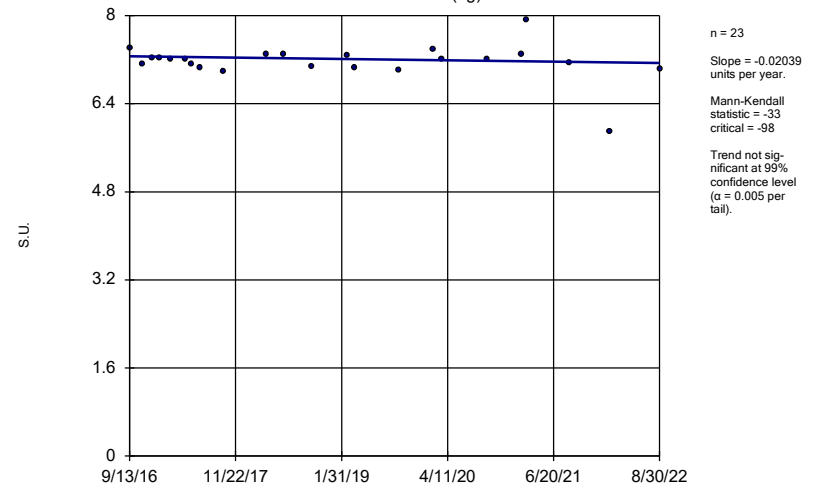
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-21I (bg)



Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

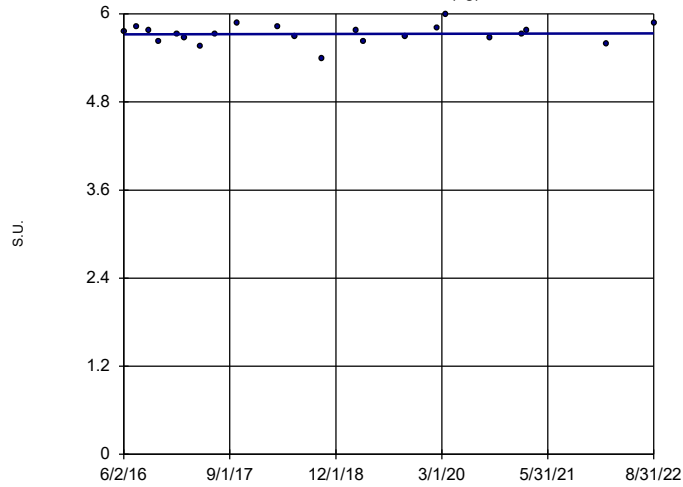
Sen's Slope Estimator YGWA-2I (bg)



Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-30I (bg)

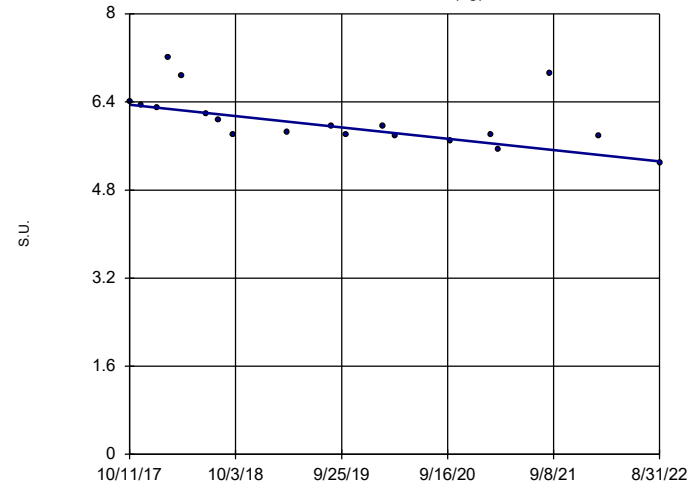


n = 22
 Slope = 0.002761 units per year.
 Mann-Kendall statistic = 9
 critical = 92
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)

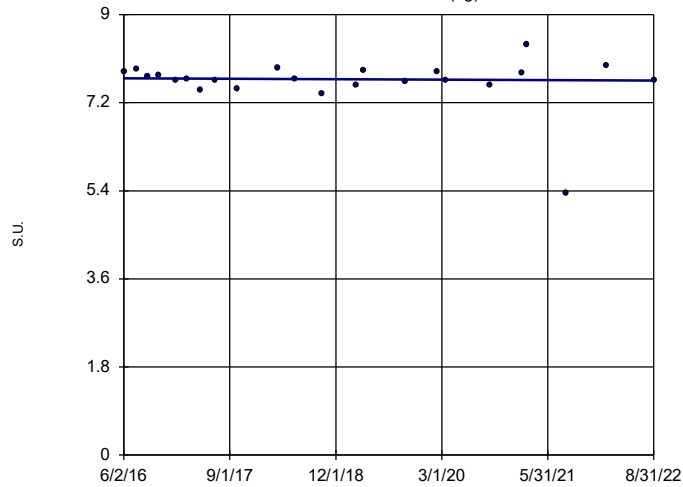


n = 19
 Slope = -0.2106 units per year.
 Mann-Kendall statistic = -105
 critical = -74
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)

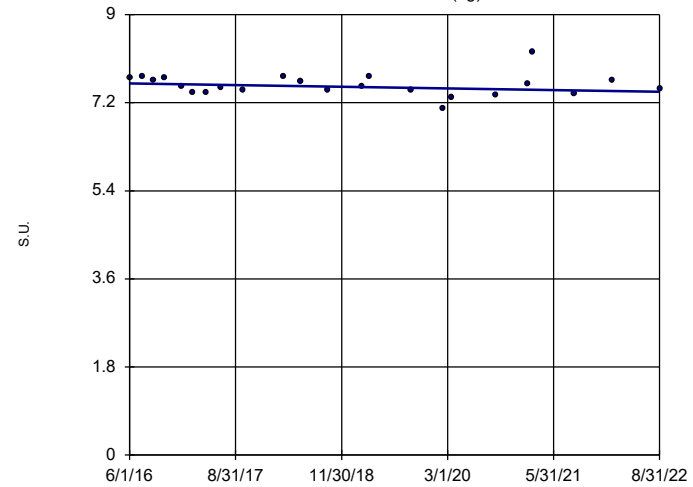


n = 23
 Slope = -0.007396 units per year.
 Mann-Kendall statistic = -18
 critical = -98
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

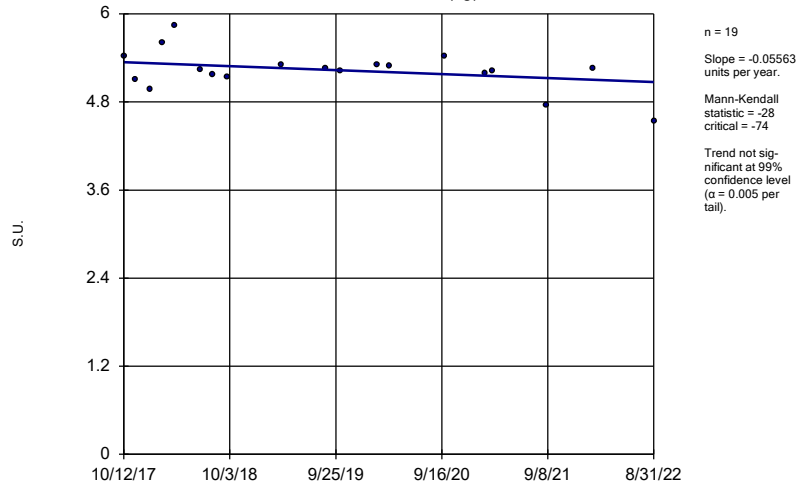
YGWA-3I (bg)



n = 23
 Slope = -0.02691 units per year.
 Mann-Kendall statistic = -45
 critical = -98
 Trend not significant at 99% confidence level (α = 0.005 per tail).

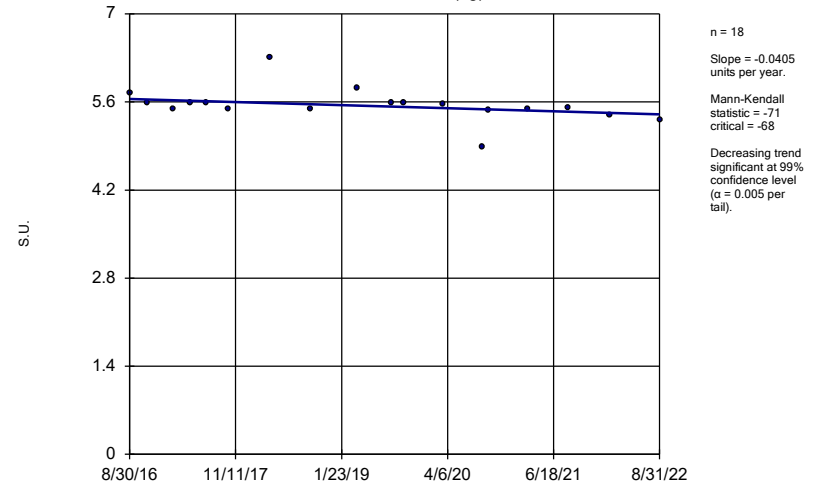
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-40 (bg)



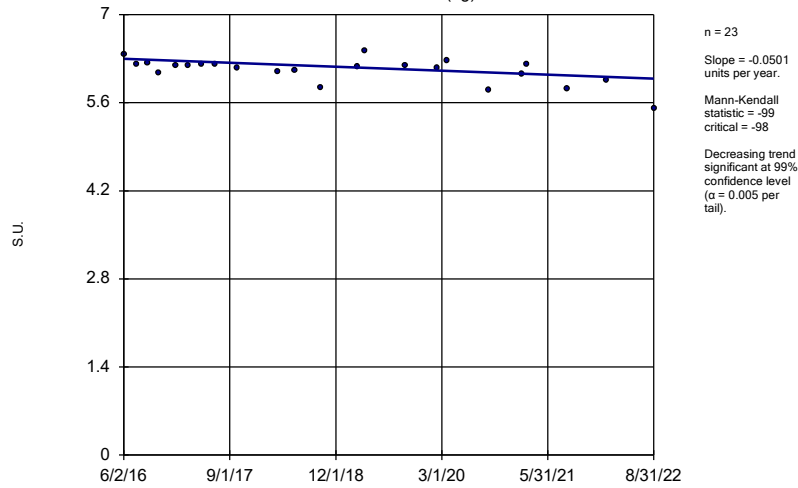
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-47 (bg)



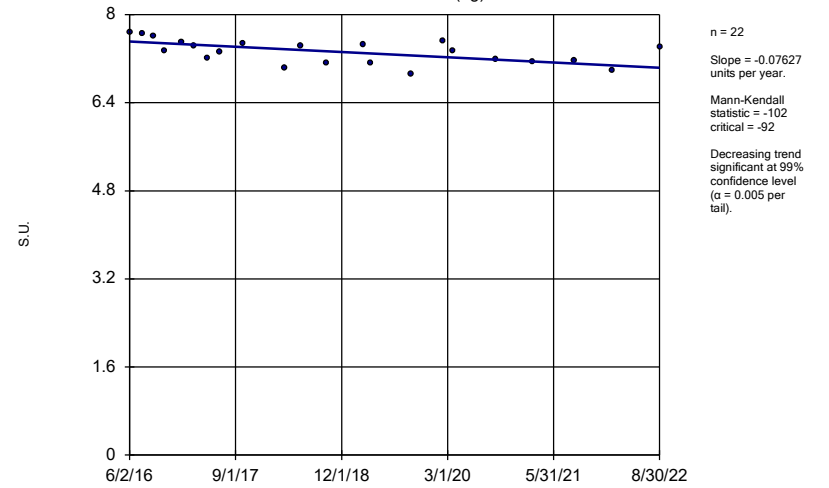
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-41 (bg)



Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

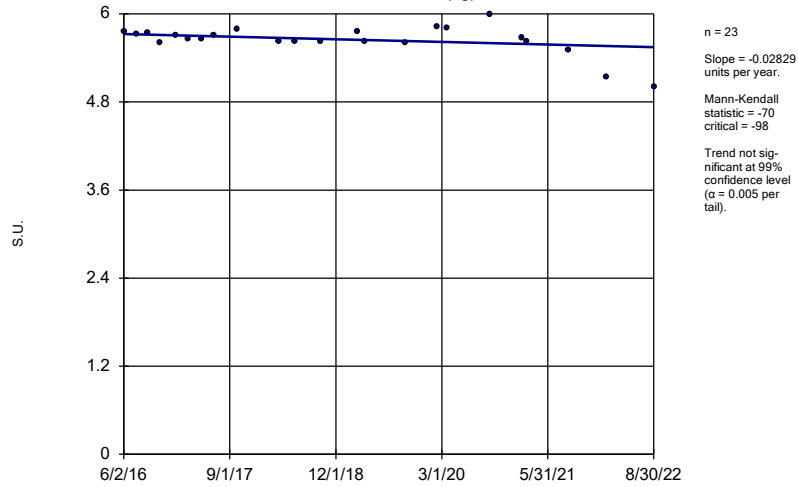
Sen's Slope Estimator YGWA-5D (bg)



Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

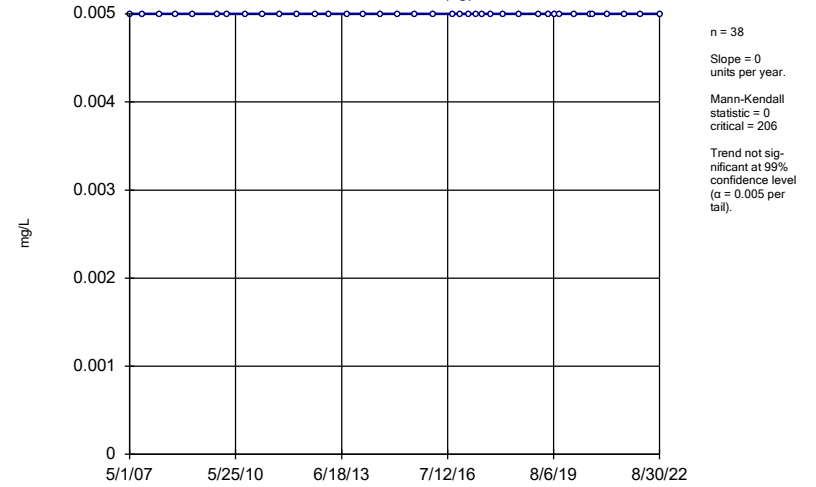
YGWA-5I (bg)



Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

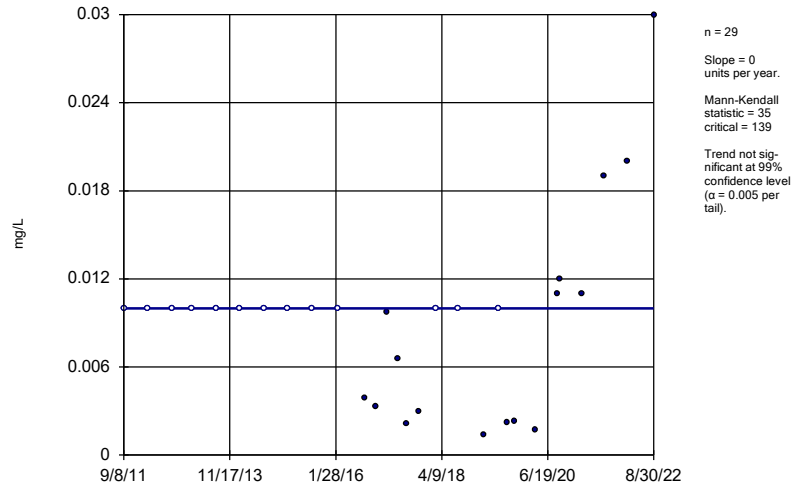
GWA-2 (bg)



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

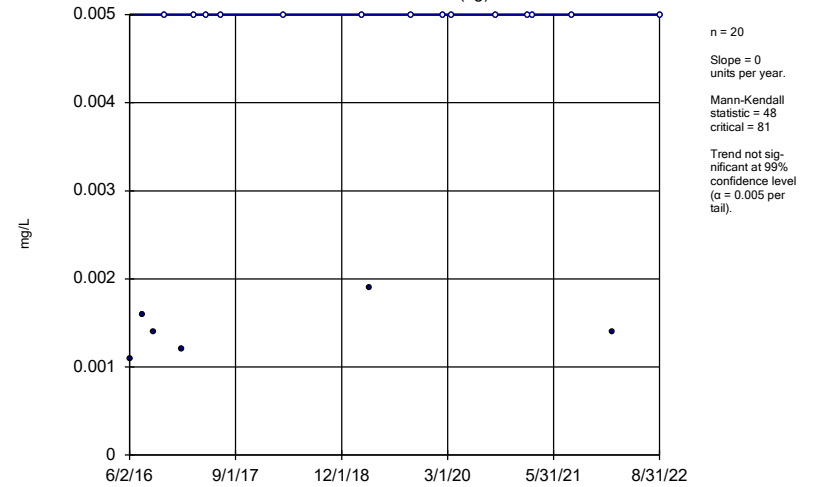
GWC-1R



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

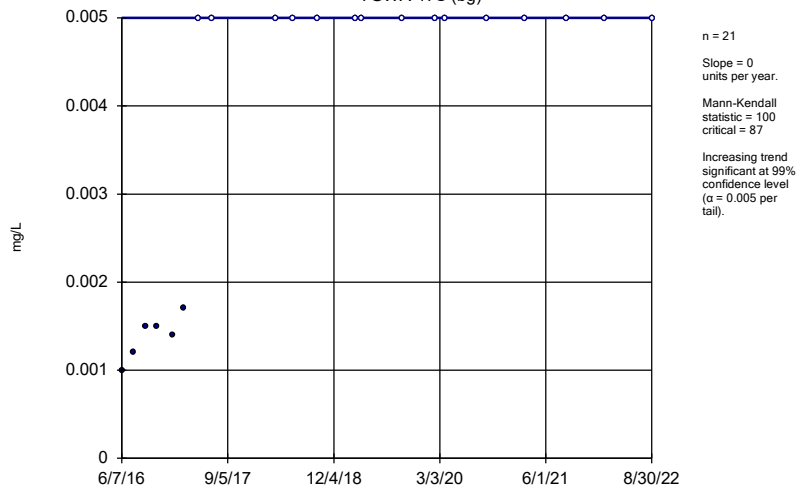
YGWA-14S (bg)



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

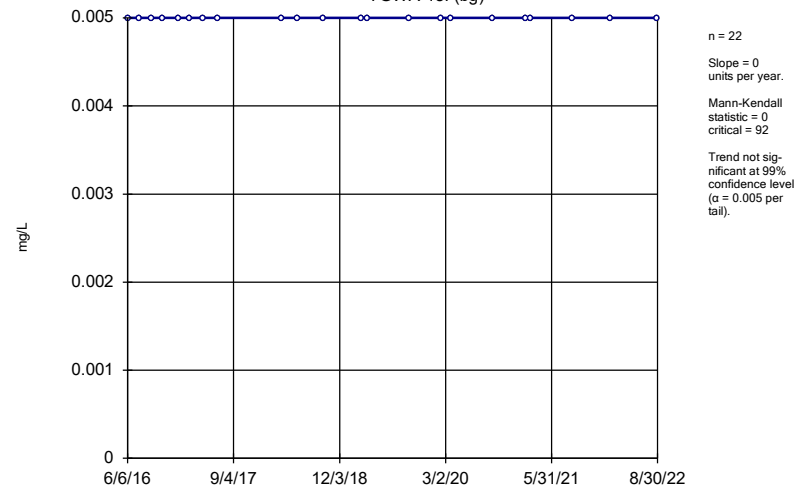
YGWA-17S (bg)



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

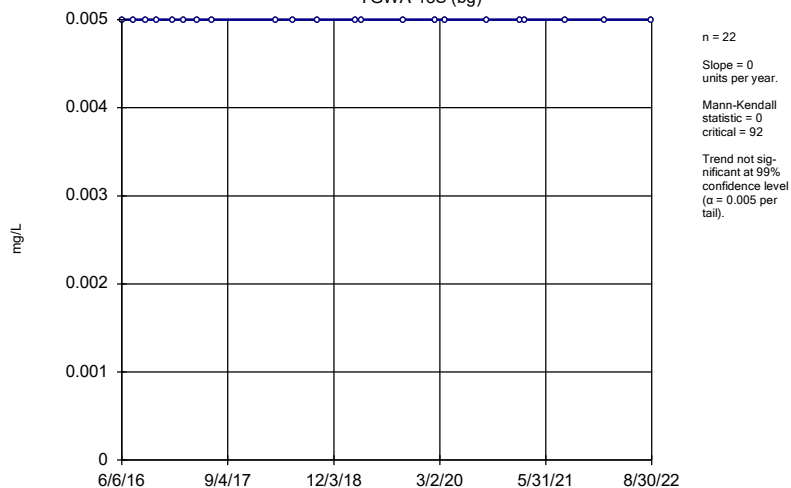
YGWA-18I (bg)



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

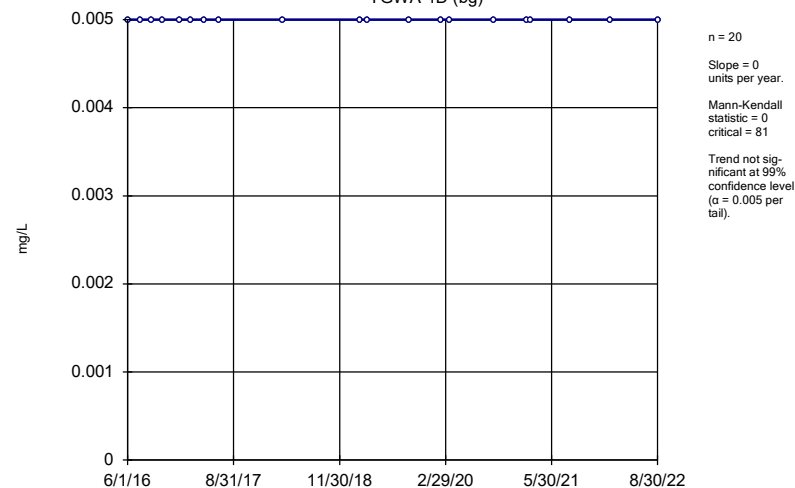
YGWA-18S (bg)



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

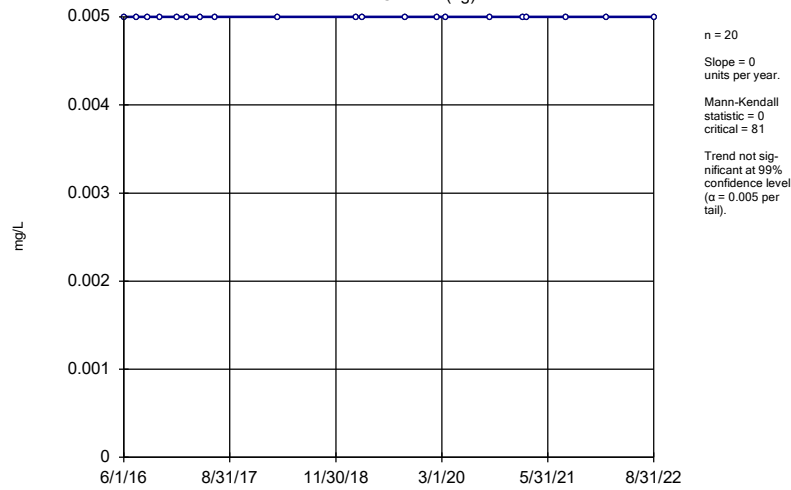
YGWA-1D (bg)



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

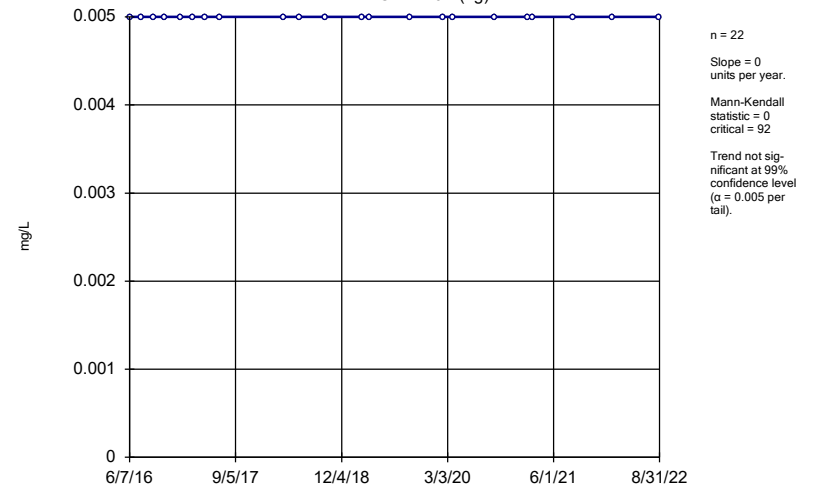
YGWA-11 (bg)



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

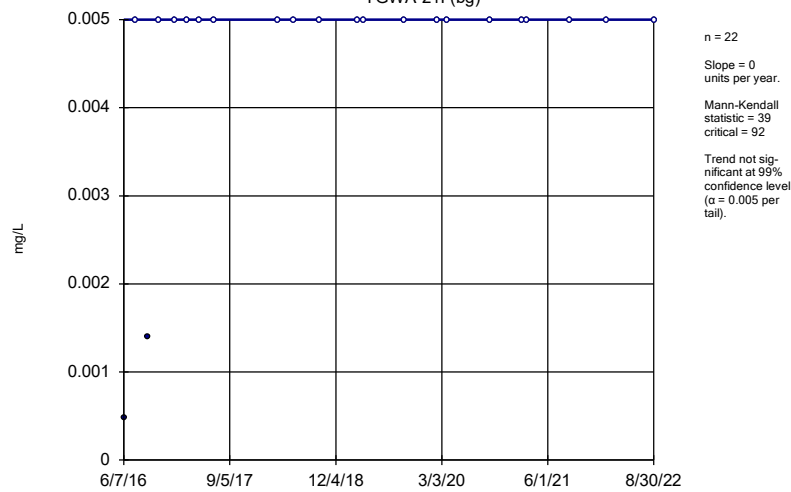
YGWA-20S (bg)



Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

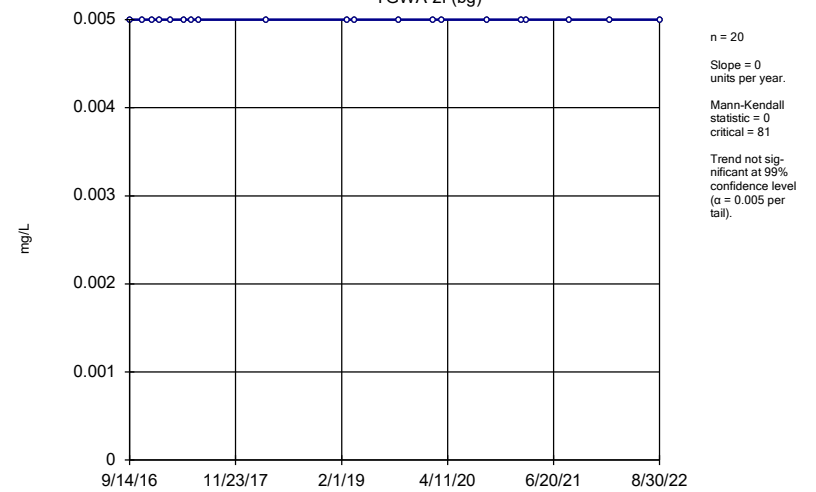
YGWA-21I (bg)



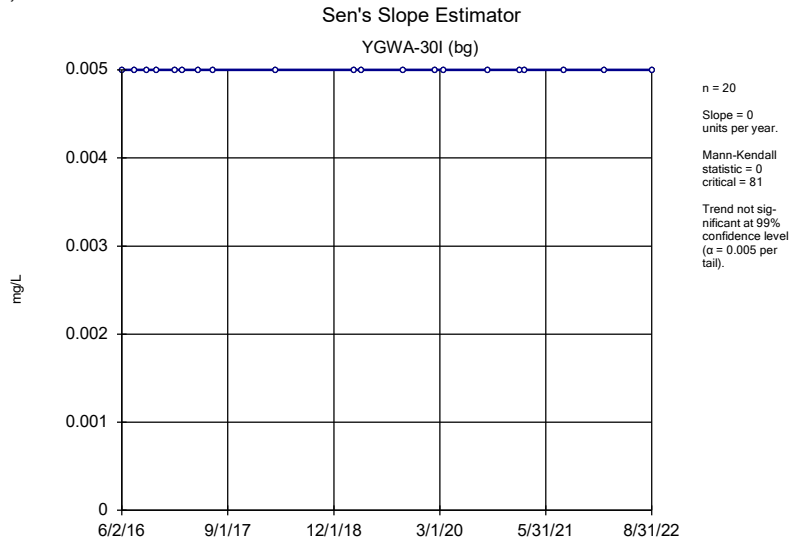
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

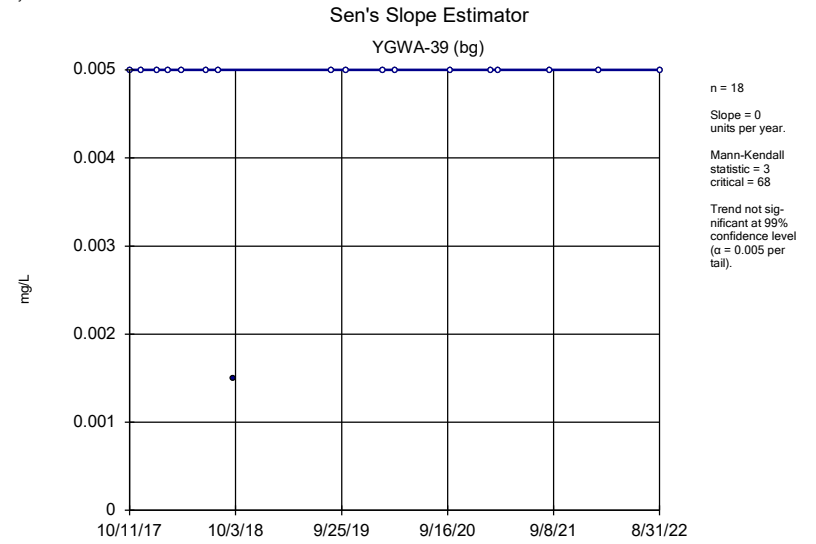
YGWA-2I (bg)



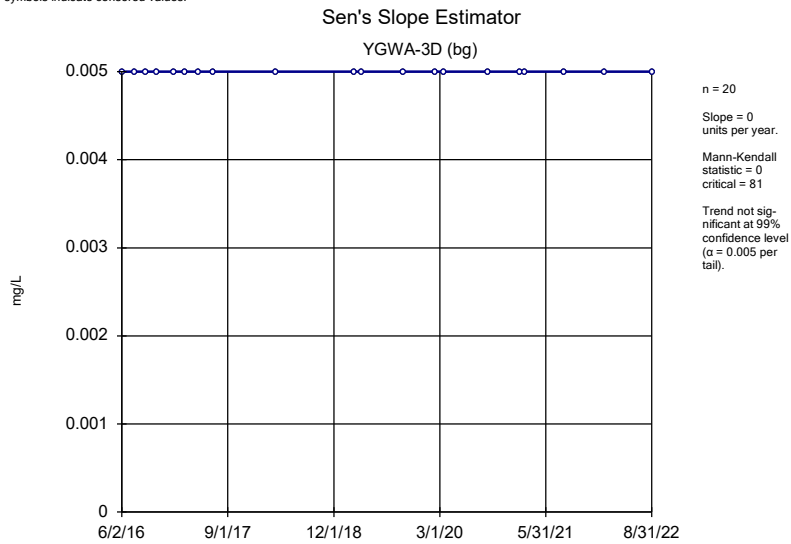
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



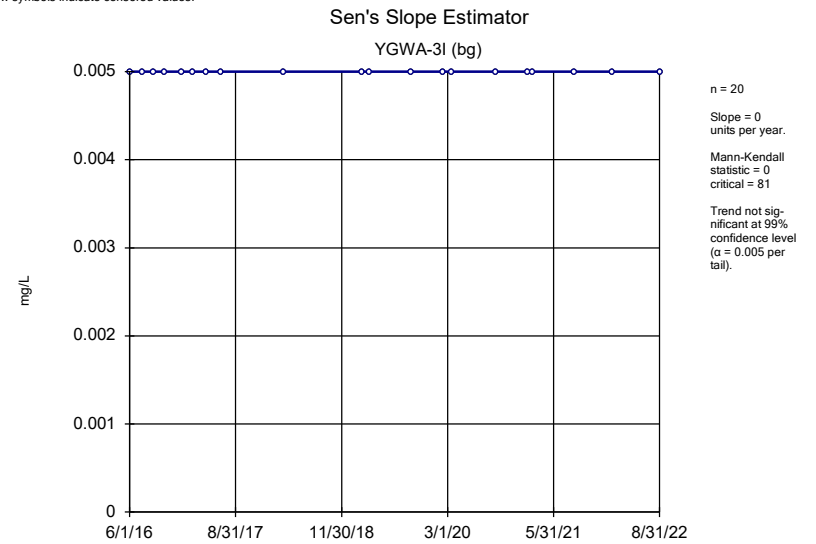
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



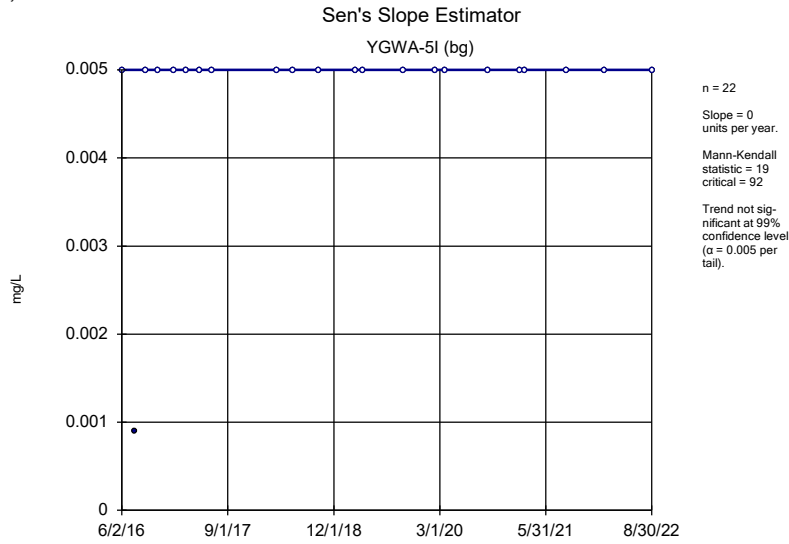
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



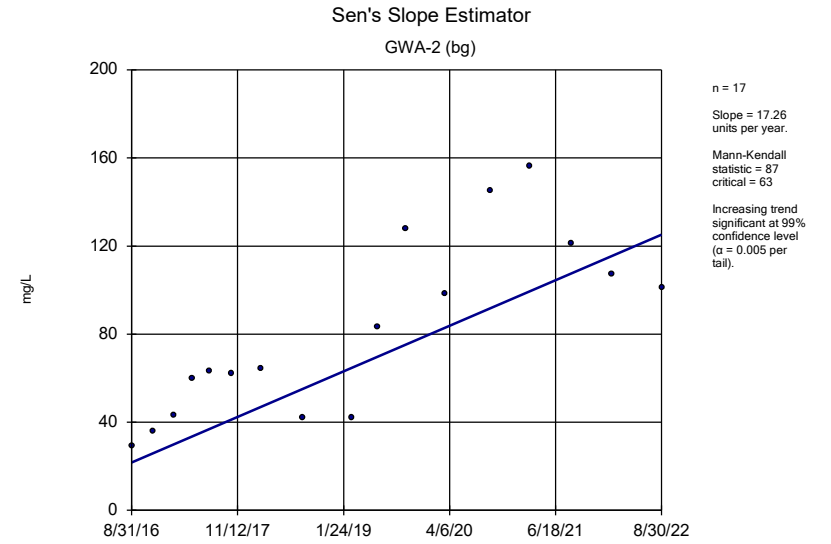
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



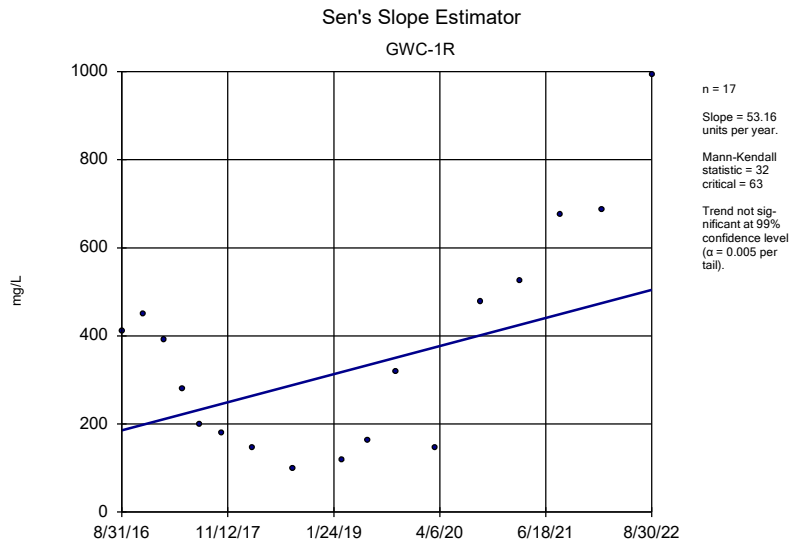
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



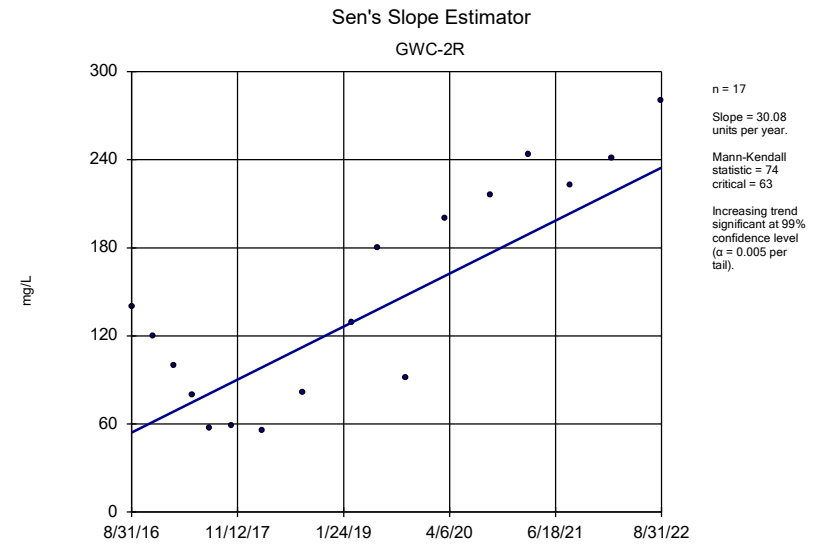
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

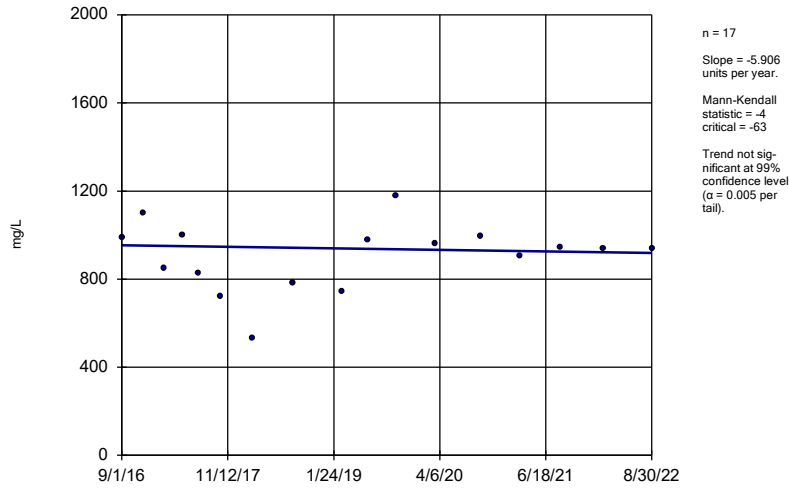


Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



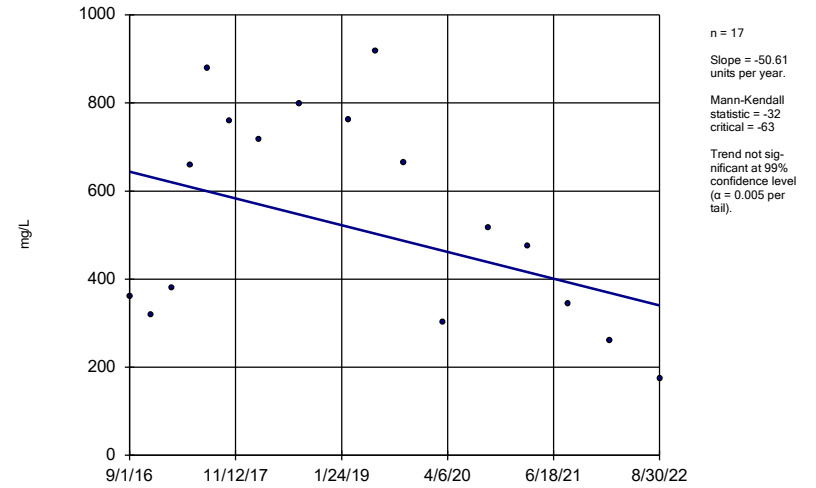
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



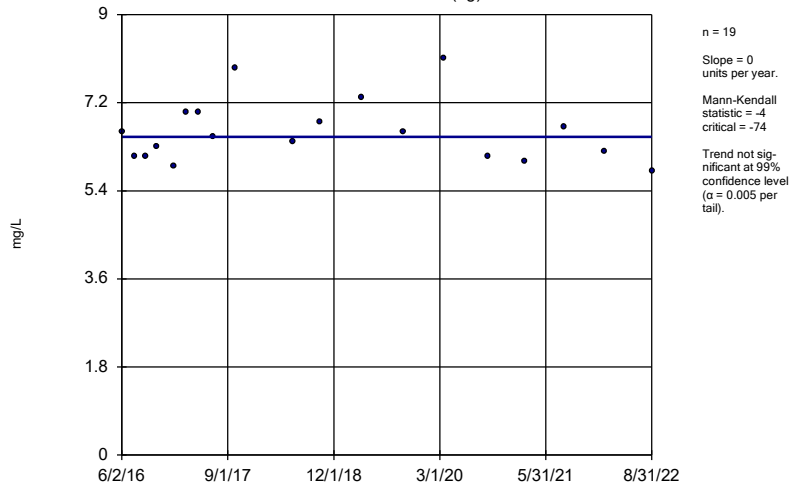
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-6R



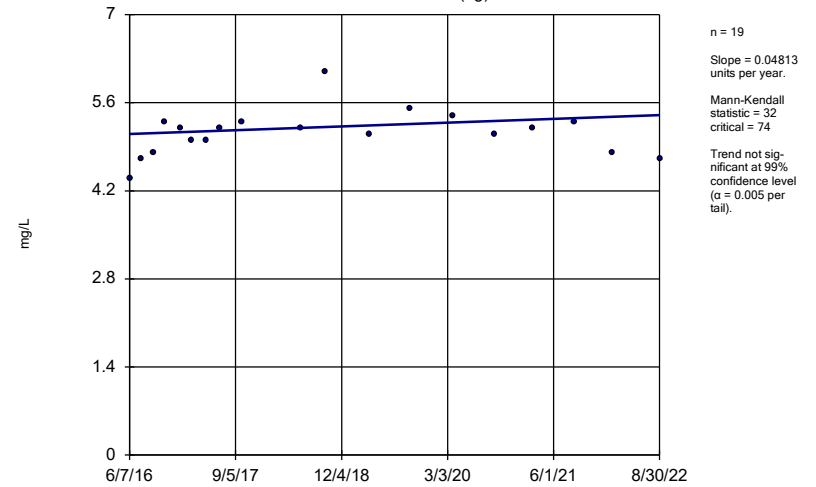
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-14S (bg)



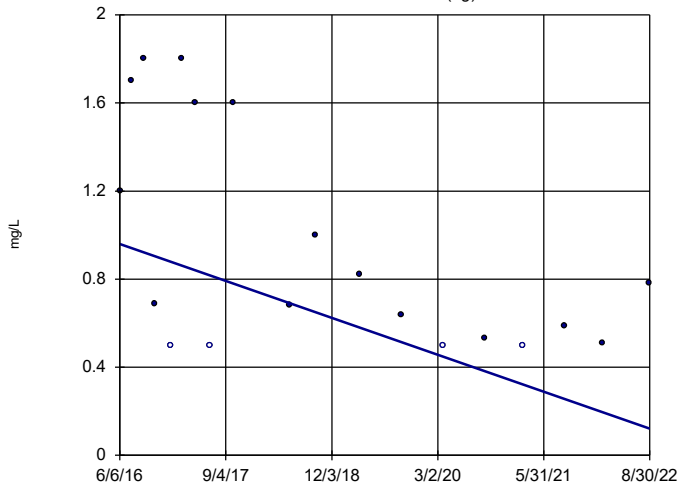
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-17S (bg)



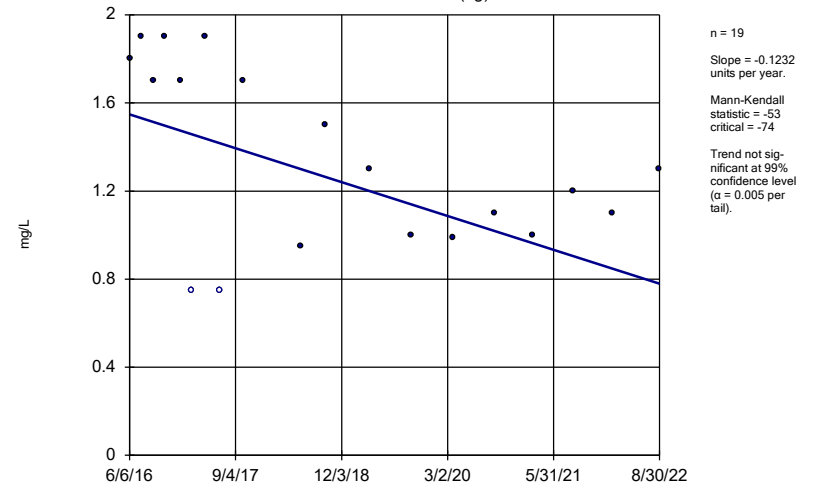
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-18I (bg)



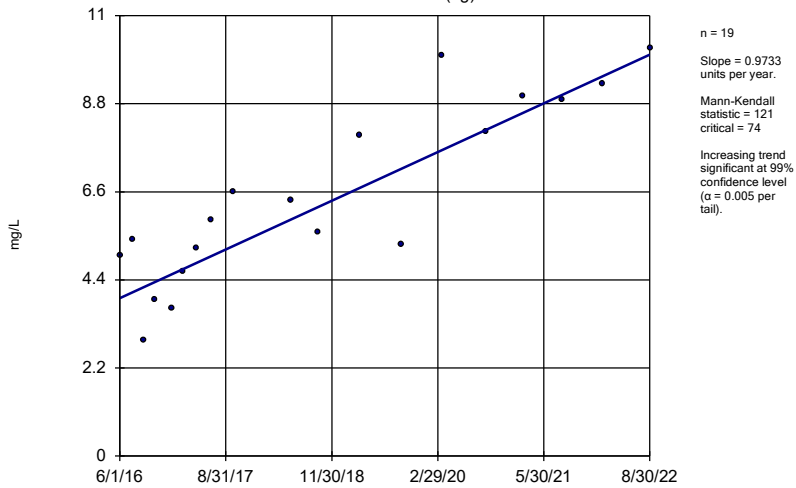
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-18S (bg)



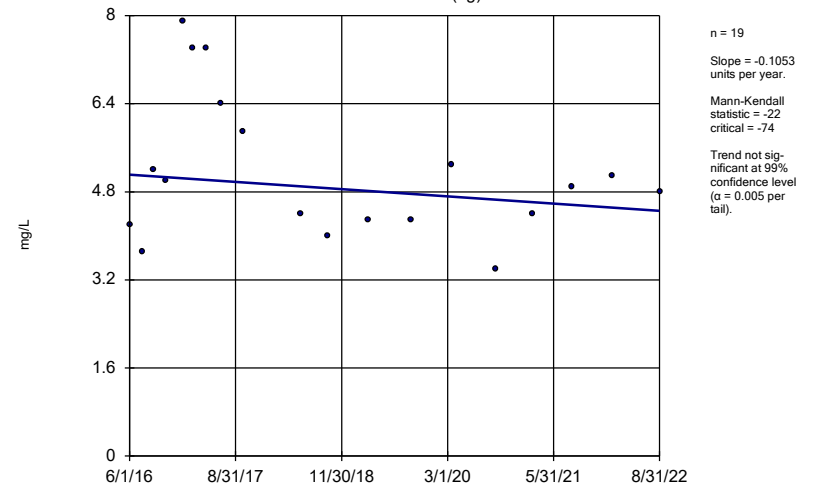
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-1D (bg)

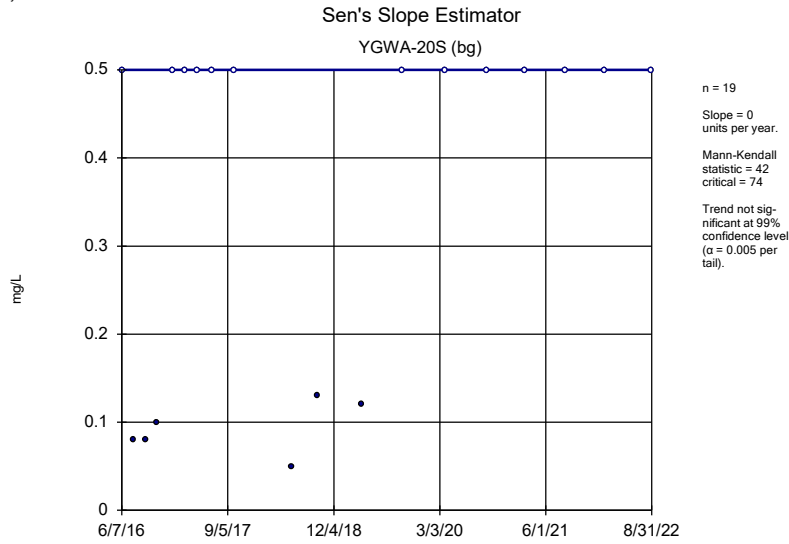


Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

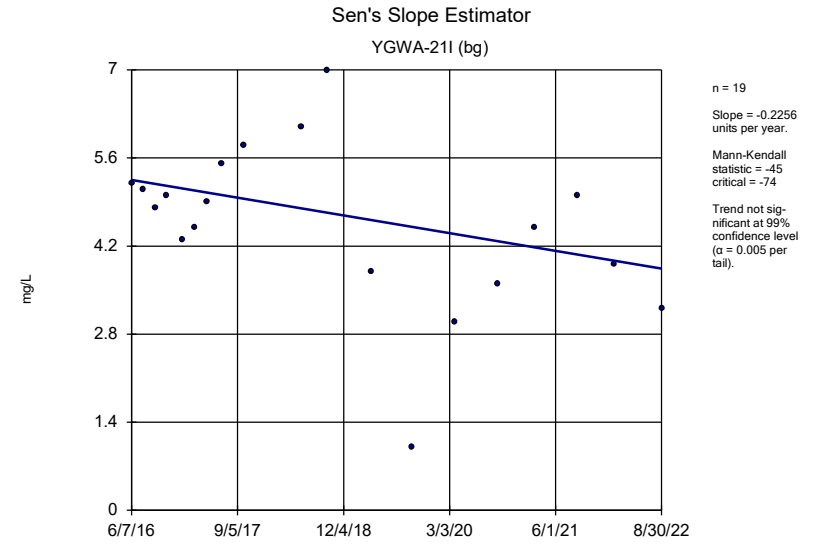
Sen's Slope Estimator YGWA-1I (bg)



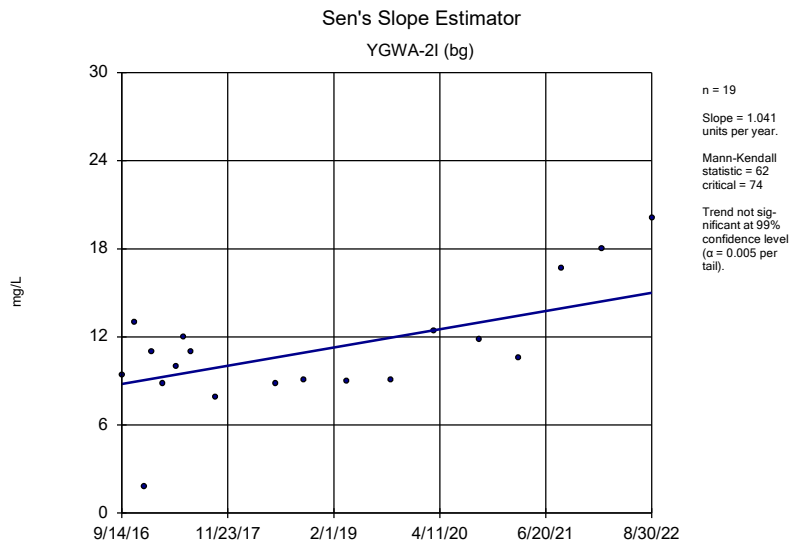
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



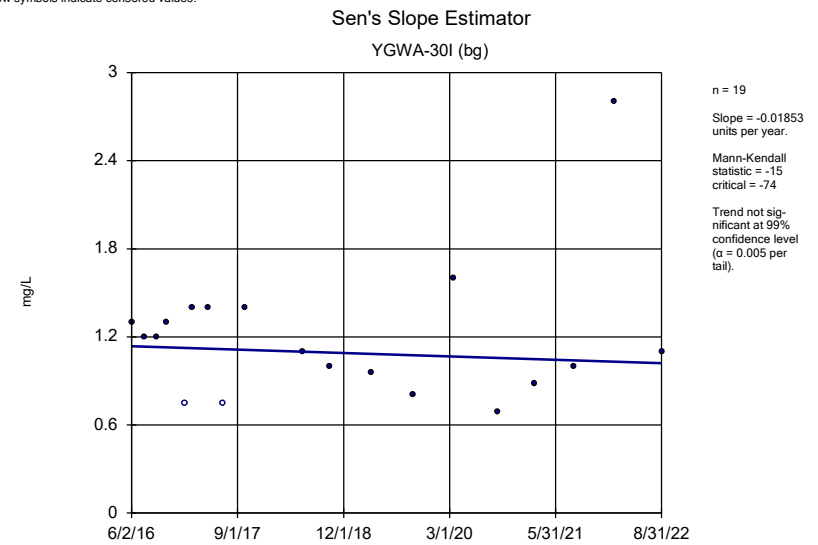
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

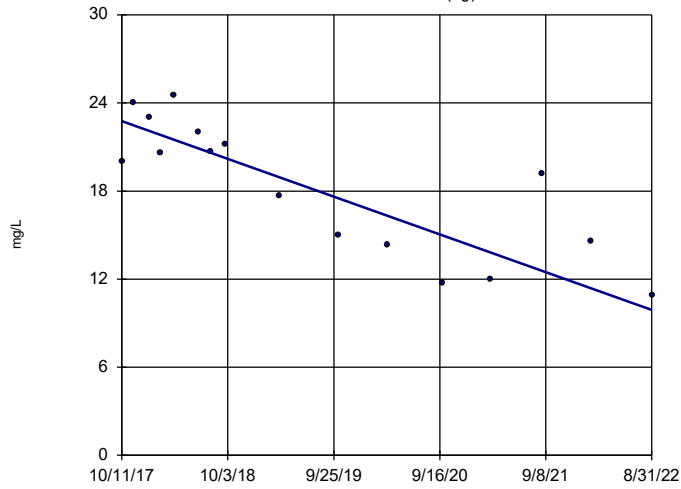


Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



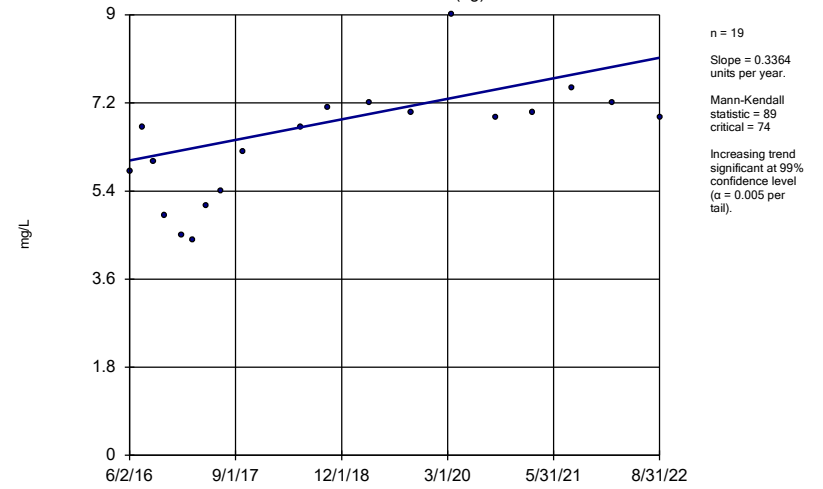
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-39 (bg)



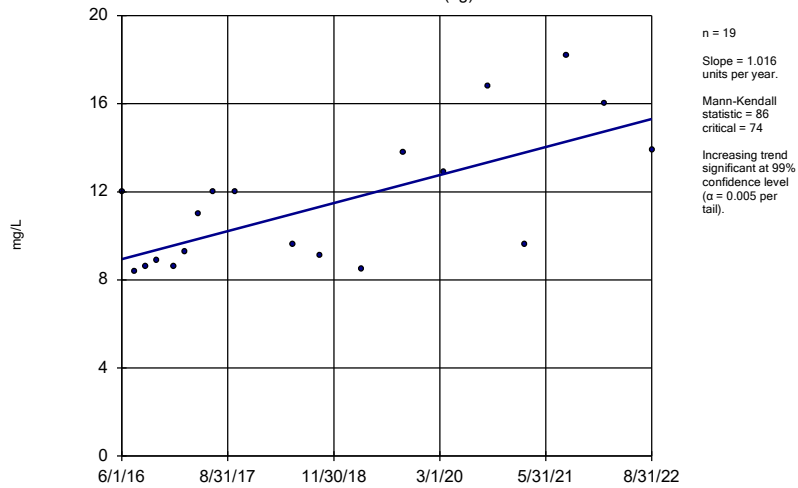
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-3D (bg)



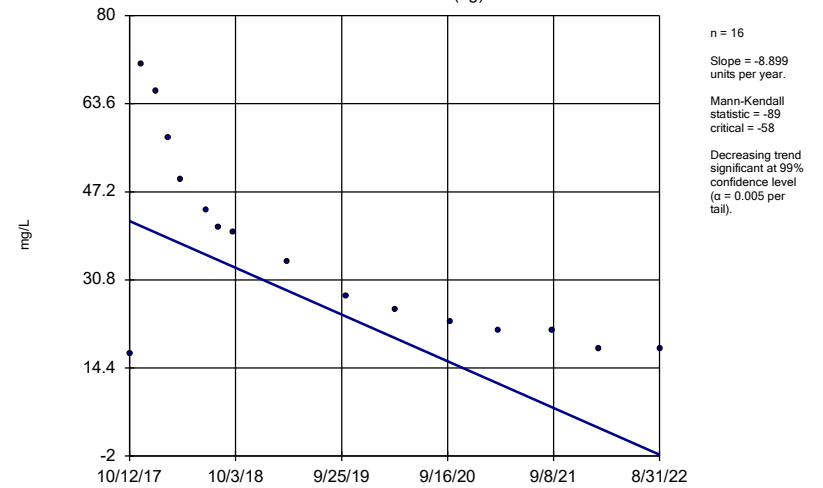
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-3I (bg)



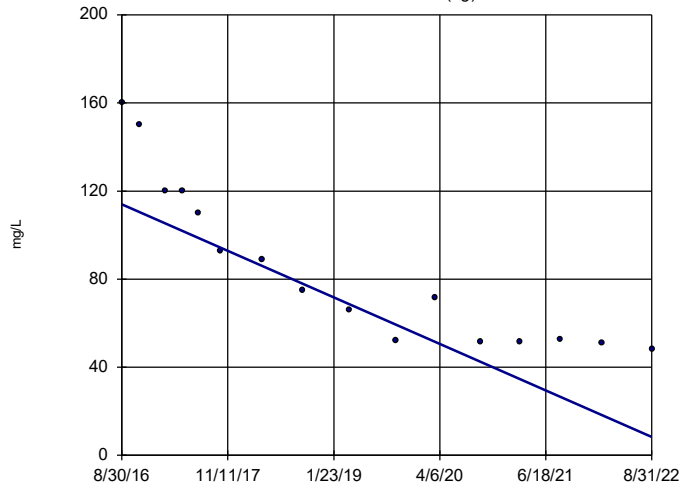
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-40 (bg)



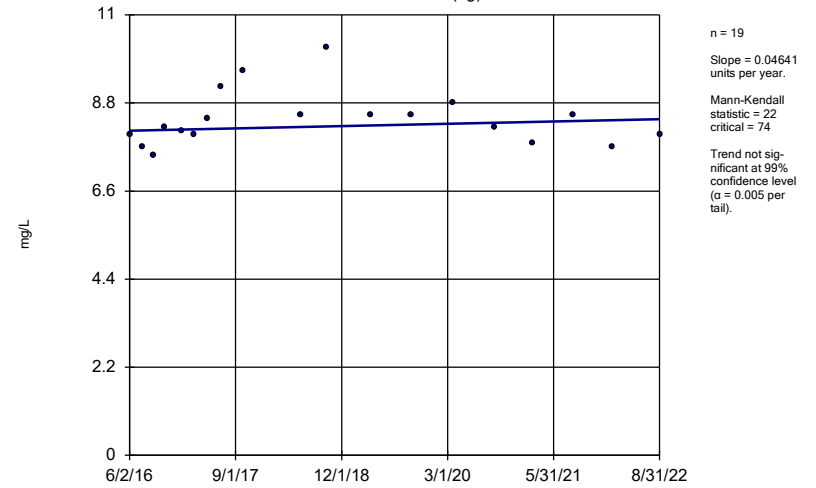
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-47 (bg)



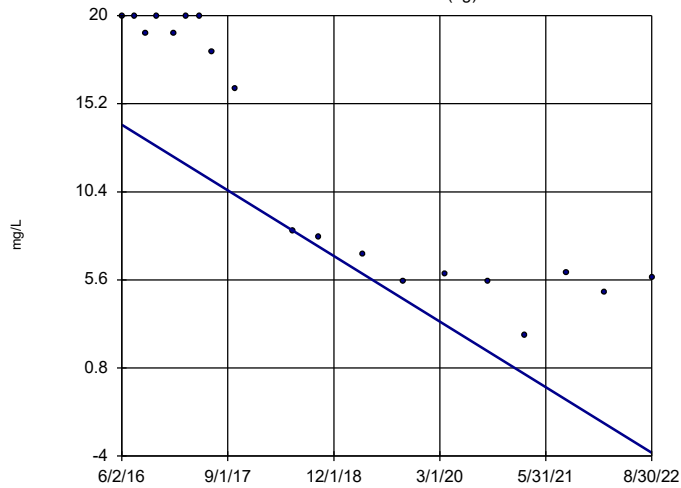
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-4I (bg)



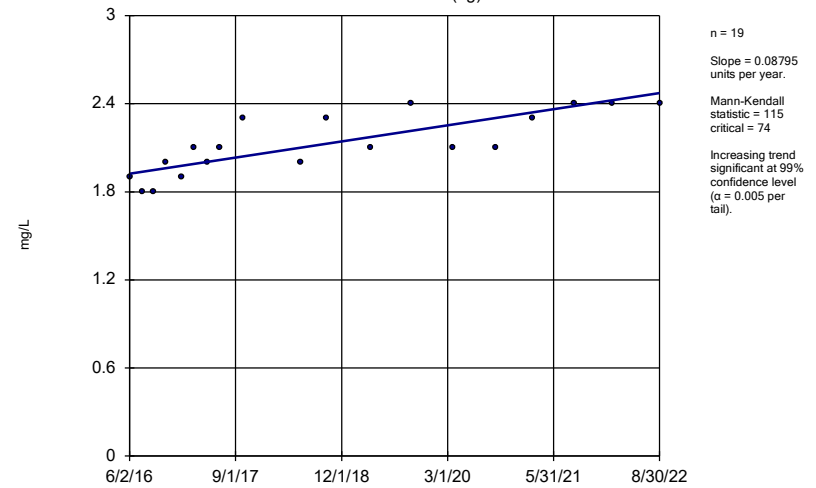
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-5D (bg)



Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

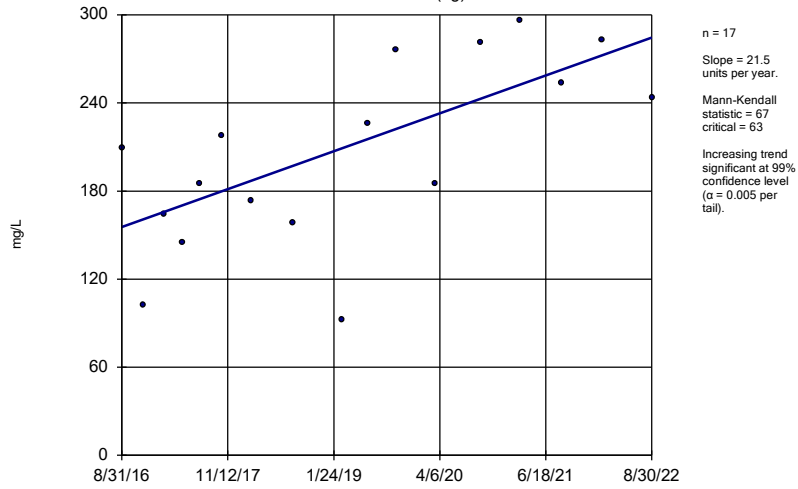
Sen's Slope Estimator
YGWA-5I (bg)



Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

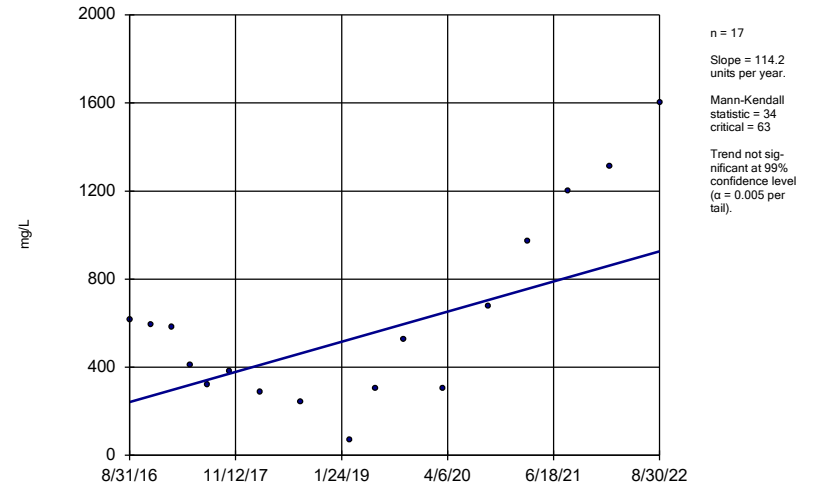
GWA-2 (bg)



Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

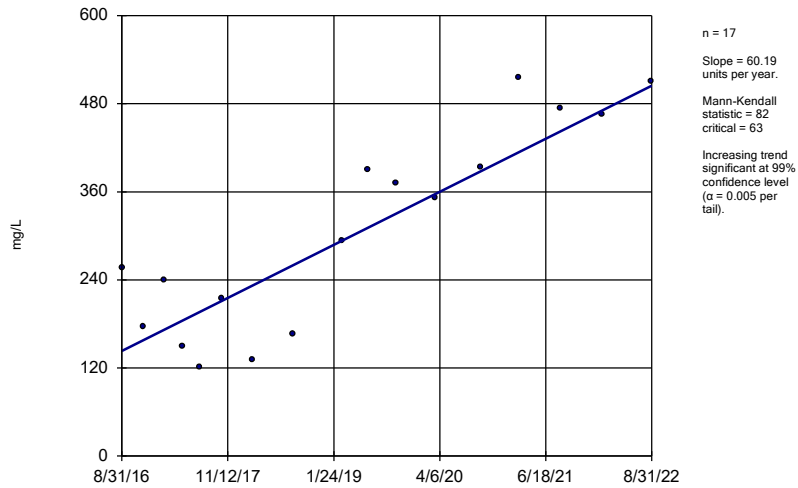
GWC-1R



Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

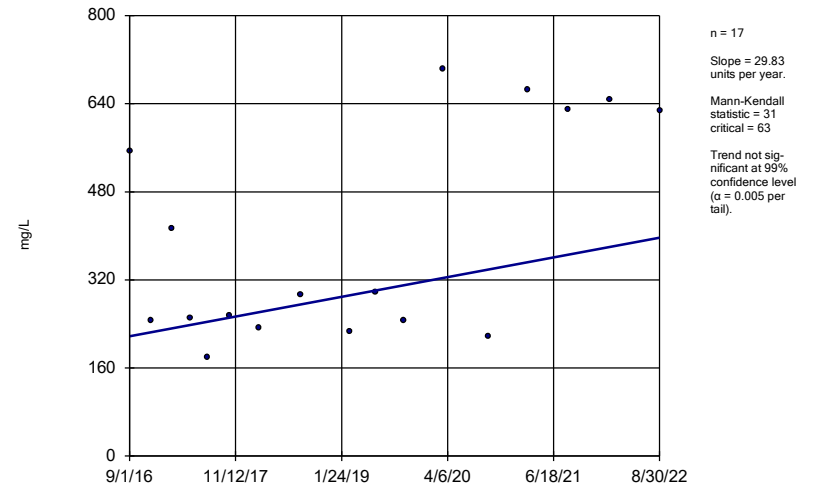
GWC-2R



Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

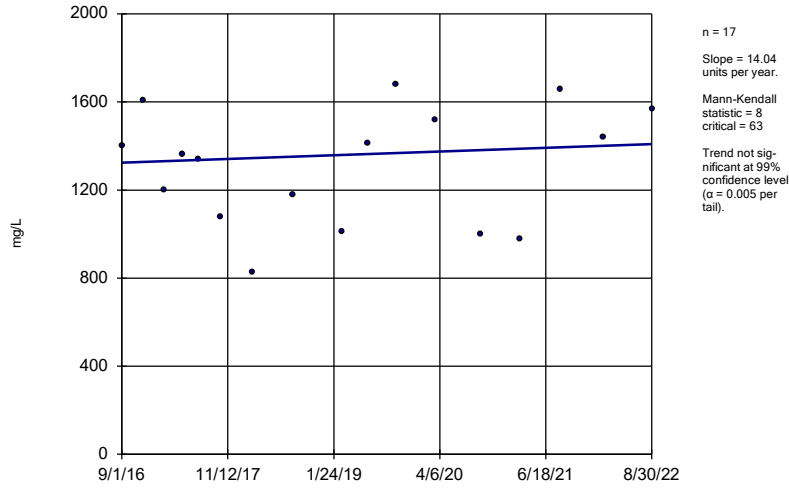
Sen's Slope Estimator

GWC-4R



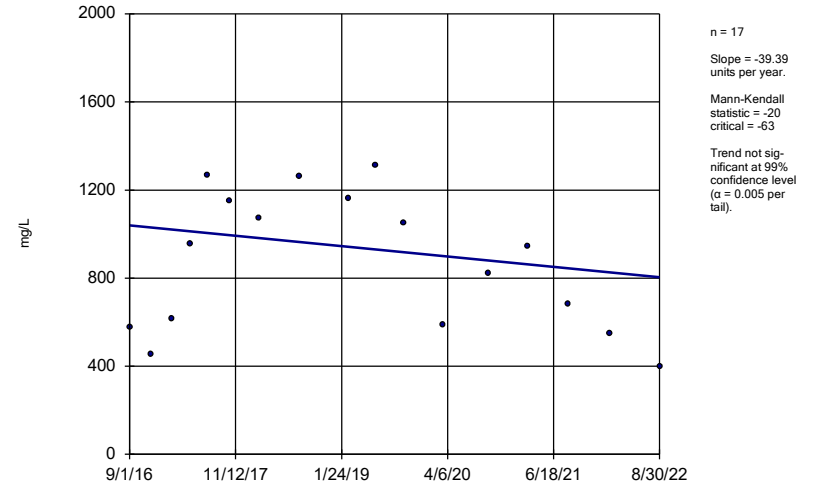
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



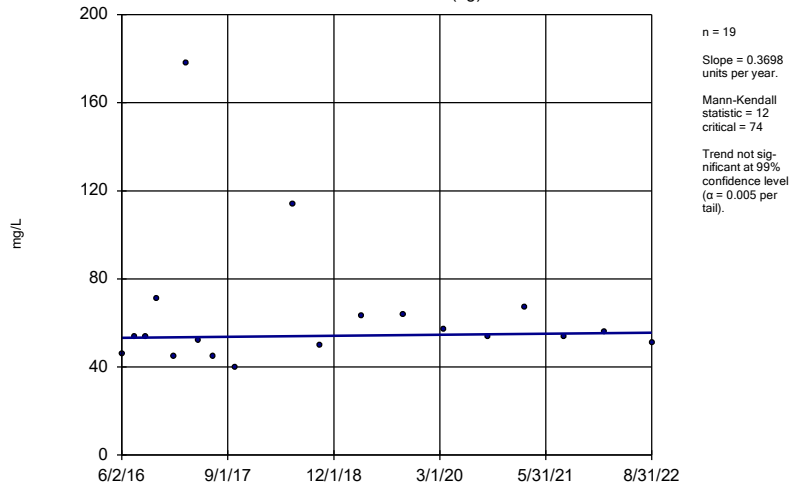
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-6R



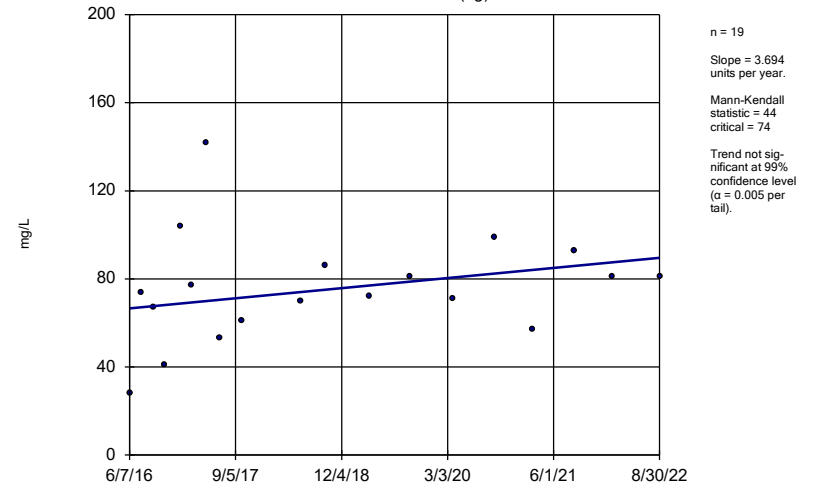
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-14S (bg)



Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

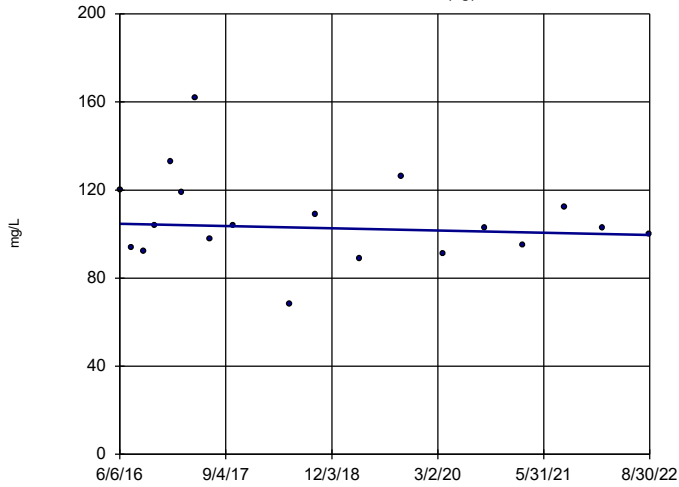
Sen's Slope Estimator YGWA-17S (bg)



Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)

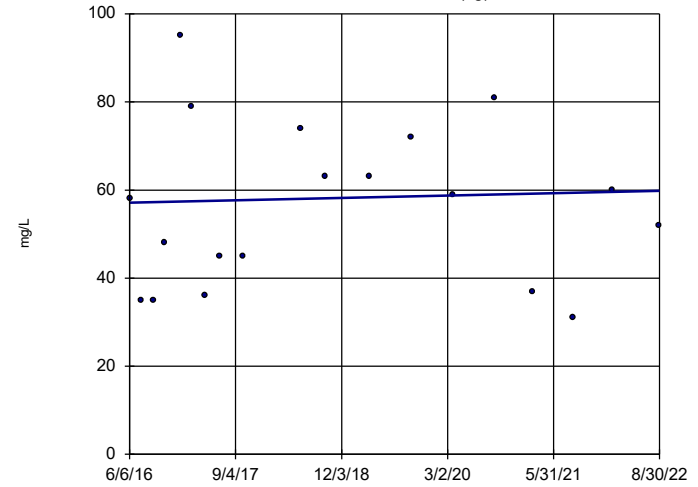


n = 19
 Slope = -0.8196
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18S (bg)

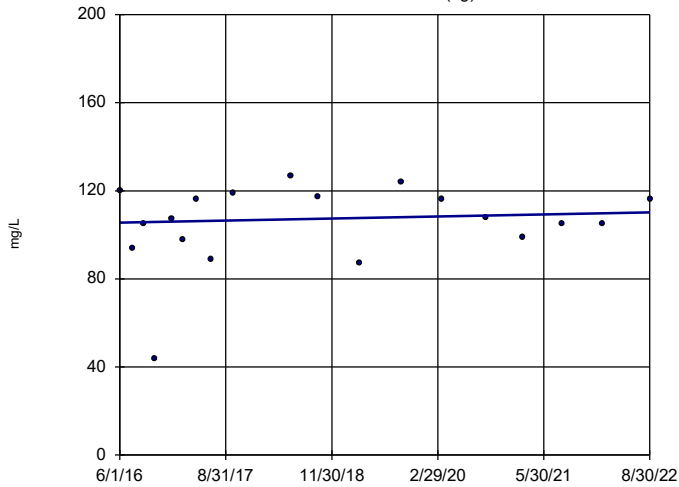


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 Slope = 0.4345
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1D (bg)

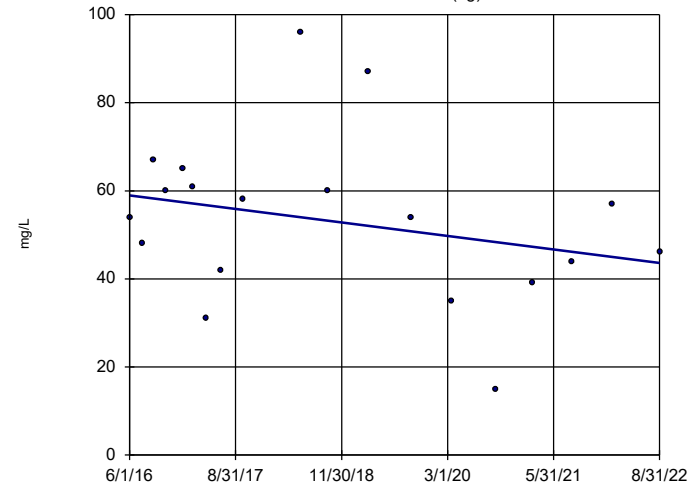


n = 19
 Slope = 0.7444
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

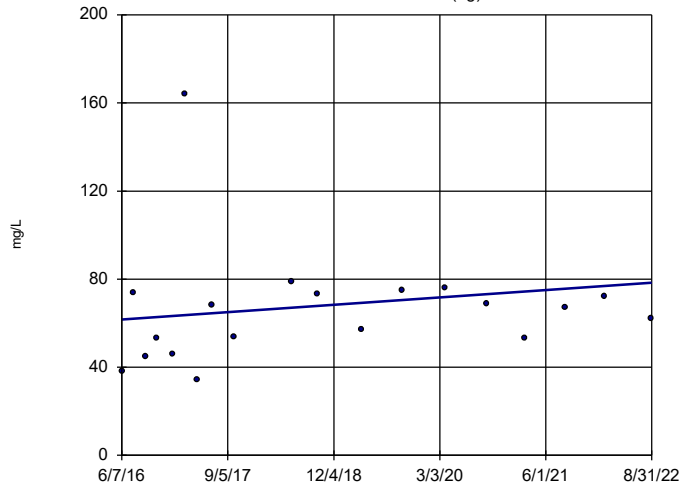
YGWA-1I (bg)



n = 19
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 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

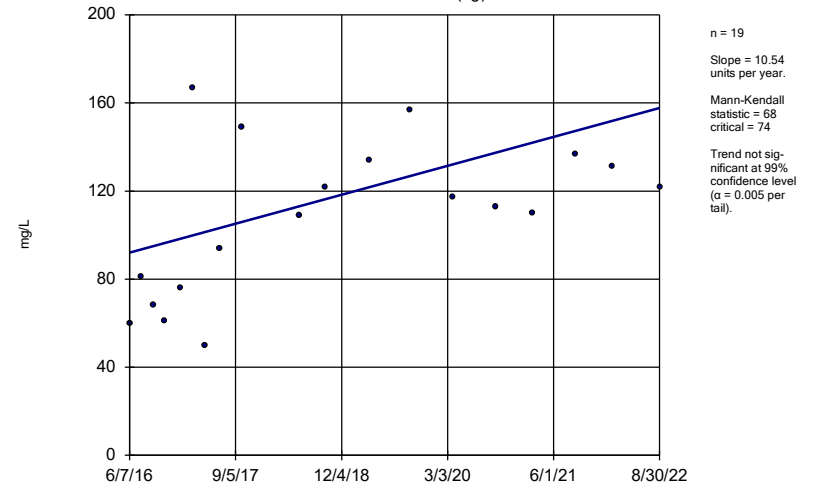
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-20S (bg)



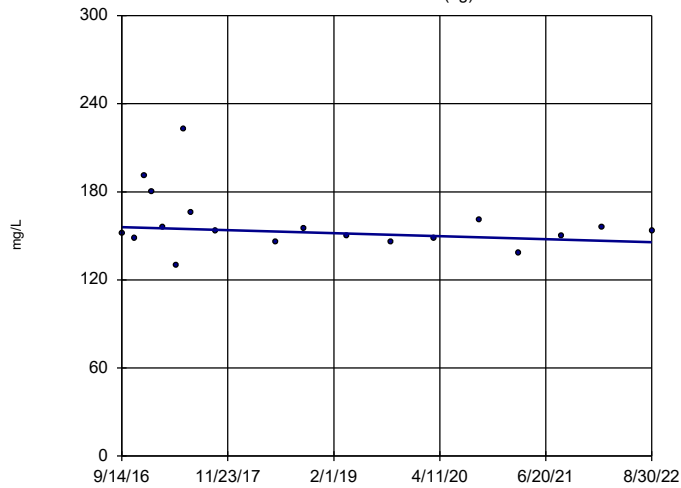
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-21I (bg)



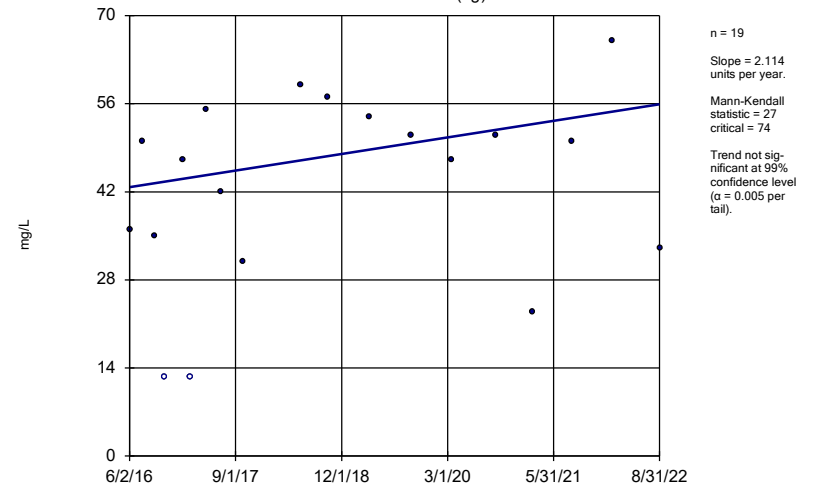
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-2I (bg)



Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

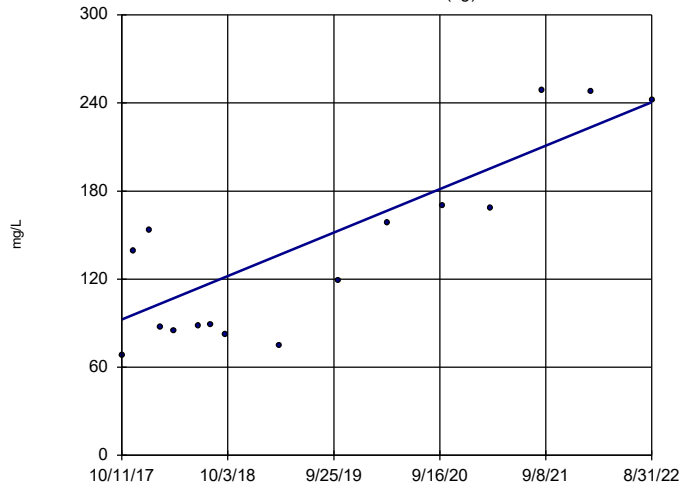
Sen's Slope Estimator
YGWA-30I (bg)



Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

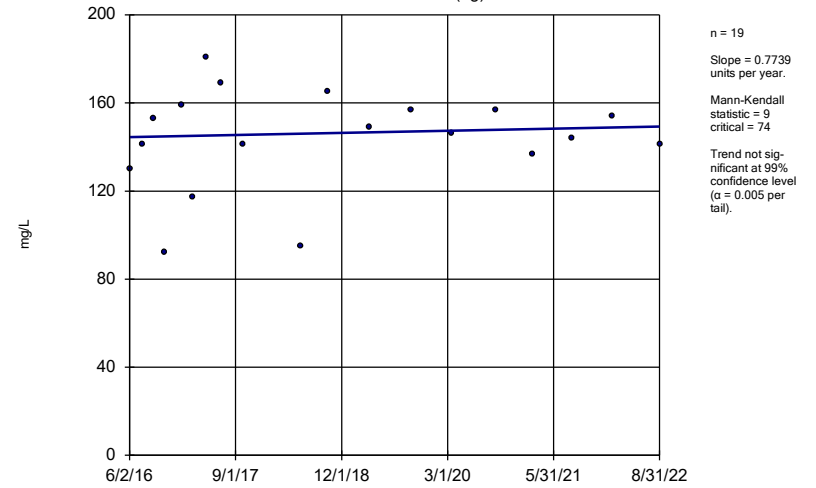
YGWA-39 (bg)



Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

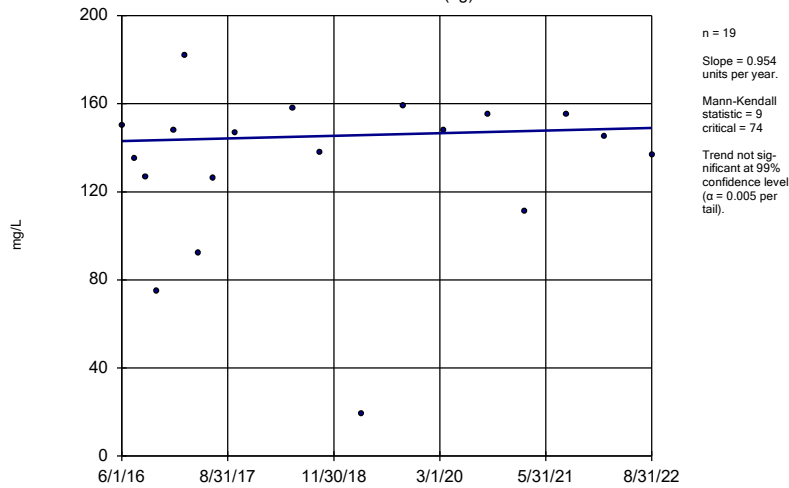
YGWA-3D (bg)



Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

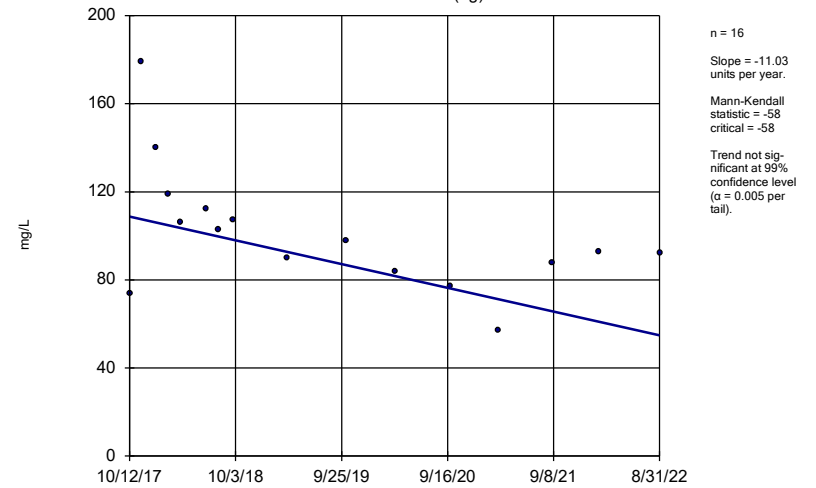
YGWA-3I (bg)



Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

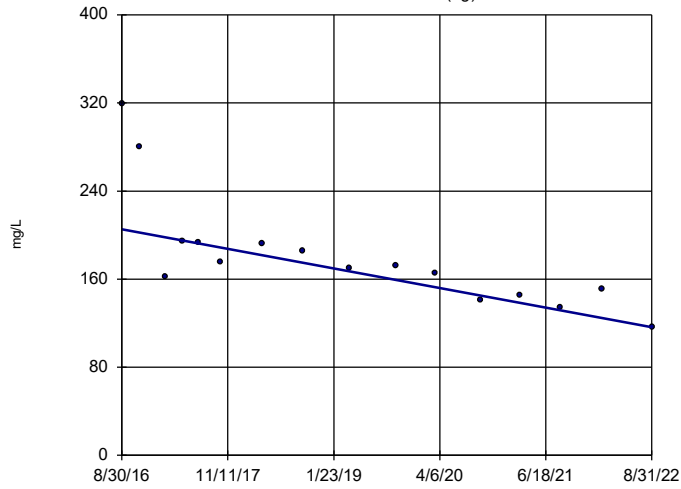
Sen's Slope Estimator

YGWA-40 (bg)



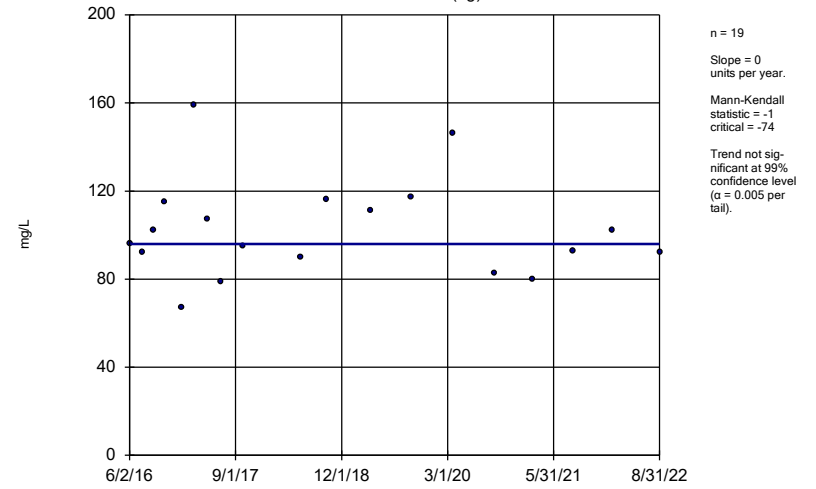
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-47 (bg)



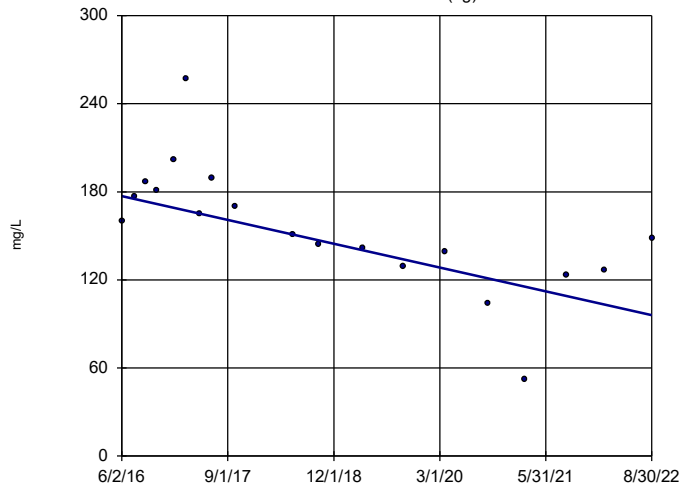
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-4I (bg)



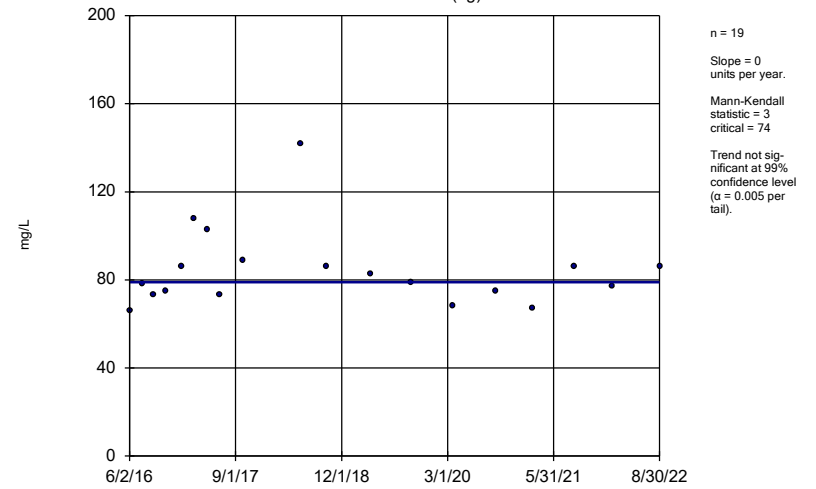
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-5D (bg)



Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-5I (bg)



Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE H.

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/24/2022, 12:46 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)	n/a	0.0047	n/a	n/a	n/a	n/a 372	n/a	n/a	87.63	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 420	n/a	n/a	74.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a 420	n/a	n/a	2.619	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a 404	n/a	n/a	80.2	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 404	n/a	n/a	95.54	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 372	n/a	n/a	80.11	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 414	n/a	n/a	69.32	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 399	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 419	n/a	n/a	65.63	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 374	n/a	n/a	85.29	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 399	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 328	n/a	n/a	93.29	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 363	n/a	n/a	60.33	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 402	n/a	n/a	92.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 338	n/a	n/a	97.04	n/a	n/a	NaN	NP Inter(NDs)

FIGURE I.

YATES LANDFILL GYPSUM STACK GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.014	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE J.

Confidence Interval Summary Table - All Results (No Significant)

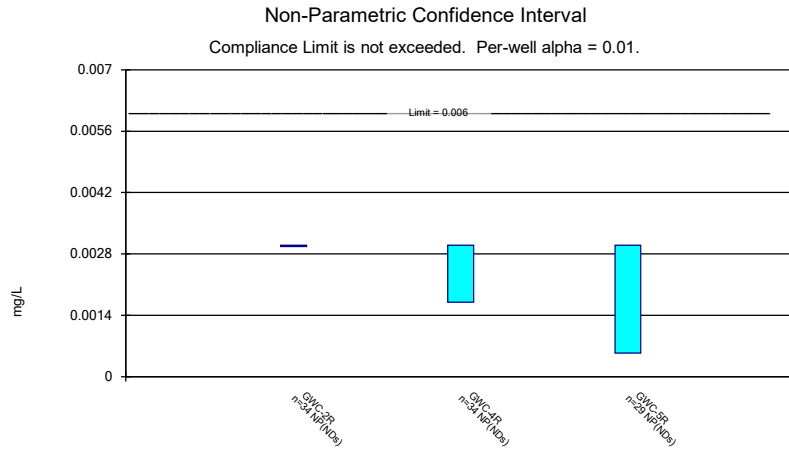
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.003	0.006	No	34	0.0002229	97.06	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0017	0.006	No	34	0.000758	85.29	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	29	0.0006648	93.1	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0035	0.01	No	29	0.001637	72.41	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	34	0.0009742	94.12	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0028	0.01	No	29	0.001418	79.31	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.0013	0.01	No	34	0.001228	91.18	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0012	0.01	No	29	0.001849	44.83	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No	35	0.001798	74.29	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.05862	0.04135	2	No	29	0.01885	0	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.06373	0.0475	2	No	34	0.02368	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-3R	0.03407	0.01888	2	No	29	0.02337	0	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03779	0.0249	2	No	34	0.01687	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.03084	0.01773	2	No	29	0.0174	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-6R	0.05498	0.03778	2	No	35	0.02085	0	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00013	0.004	No	29	0.001435	44.83	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00023	0.004	No	34	0.001341	67.65	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0011	0.0004	0.004	No	29	0.001093	24.14	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	34	0.001051	85.29	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.003	0.00048	0.004	No	29	0.001267	24.14	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.0005	0.00026	0.005	No	29	0.0001511	75.86	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	34	0.00015	79.41	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0005	0.00021	0.005	No	29	0.0001545	58.62	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.00011	0.005	No	34	0.00009435	94.12	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.00097	0.0005	0.005	No	29	0.0002849	27.59	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	GWC-1R	0.005	0.0011	0.1	No	29	0.001902	41.38	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0017	0.1	No	34	0.001516	85.29	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0023	0.0011	0.1	No	29	0.001775	31.03	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0013	0.1	No	34	0.00153	82.35	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0028	0.0019	0.1	No	29	0.001147	17.24	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0028	0.0014	0.1	No	35	0.001671	31.43	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.0008	0.035	No	29	0.00303	34.48	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02517	0.01526	0.035	No	34	0.01181	2.941	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0074	0.0041	0.035	No	29	0.002147	68.97	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-4R	0.004654	0.002487	0.035	No	34	0.002029	26.47	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00077	0.035	No	29	0.001966	75.86	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	35	0.0006085	97.14	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	0.9498	0.5466	6.92	No	16	0.331	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.423	0.6662	6.92	No	16	0.5815	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.003	0.2829	6.92	No	16	0.6621	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.5824	0.2291	6.92	No	16	0.2715	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.9013	0.283	6.92	No	16	0.4615	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.046	0.452	6.92	No	16	0.5389	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	19	0.02028	78.95	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	19	0.1149	73.68	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.15	0.07	4	No	19	0.1182	36.84	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	19	0.02216	73.68	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-5R	0.11	0.053	4	No	19	0.09221	47.37	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	19	0.04915	73.68	No	0.01	NP (normality)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.0013	No	29	0.0002425	93.1	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.0001	0.0013	No	34	0.0003798	79.41	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.001	0.00015	0.0013	No	29	0.0003968	75.86	No	0.01	NP (NDs)
Lead (mg/L)	GWC-4R	0.001	0.001	0.0013	No	34	0.0001645	97.06	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00019	0.0013	No	29	0.0003785	79.31	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.0024	0.0013	0.03	No	17	0.01117	17.65	No	0.01	NP (normality)
Lithium (mg/L)	GWC-2R	0.0053	0.0035	0.03	No	17	0.01019	17.65	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.03	No	17	0.01268	76.47	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.03	No	17	0.01357	70.59	No	0.01	NP (normality)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.03	No	17	0.01466	47.06	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.03	No	17	0.01204	23.53	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	29	0.00002618	96.55	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.0002	0.002	No	34	0.00002212	97.06	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.0002	0.000064	0.002	No	29	0.0000615	89.66	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.00014	0.002	No	34	0.00002771	91.18	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	29	0.000026	96.55	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.0002	0.002	No	35	0.00003848	94.29	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.0066	0.0039	0.05	No	29	0.006342	44.83	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-2R	0.005	0.0032	0.05	No	34	0.001197	47.06	No	0.01	NP (normality)

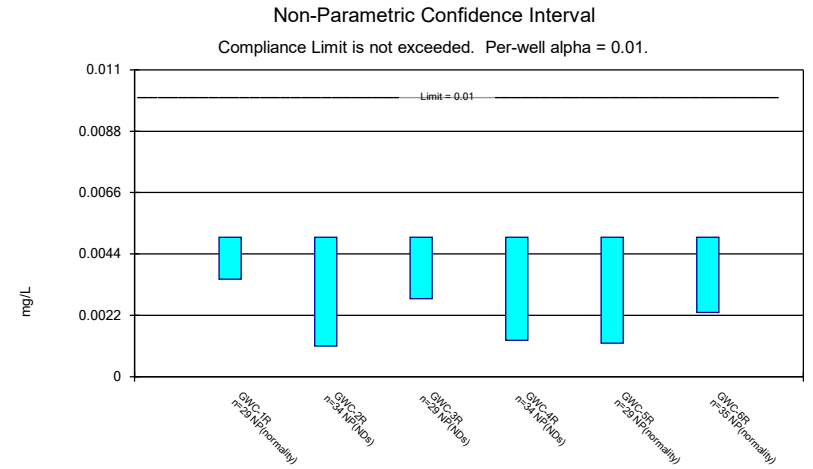
Confidence Interval Summary Table - All Results (No Significant) Page 2

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:48 PM

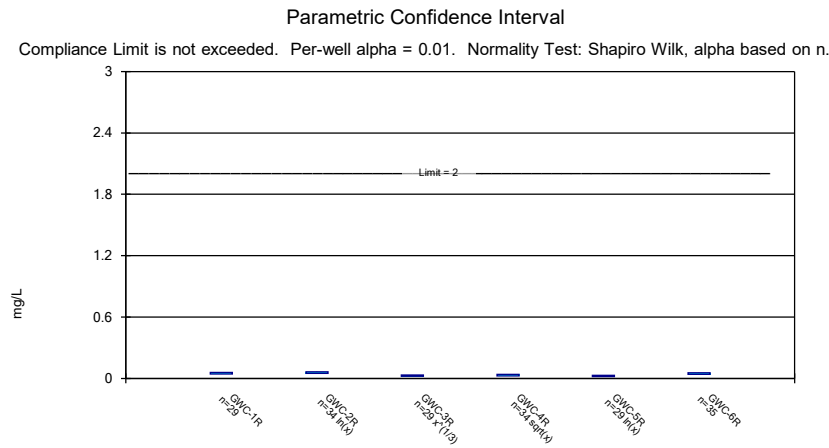
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Selenium (mg/L)	GWC-3R	0.0057	0.0045	0.05	No	29	0.003261	37.93	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-4R	0.0054	0.0041	0.05	No	34	0.003502	23.53	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-5R	0.02517	0.01716	0.05	No	29	0.008738	3.448	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.005	0.0037	0.05	No	35	0.001251	54.29	No	0.01	NP (normality)
Thallium (mg/L)	GWC-2R	0.001	0.001	0.002	No	32	0.0001644	96.88	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	28	0.000179	96.43	No	0.01	NP (NDs)



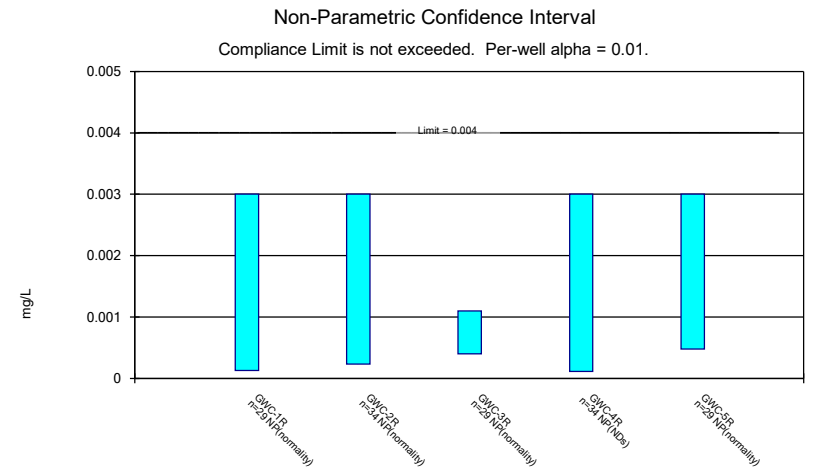
Constituent: Antimony Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Arsenic Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



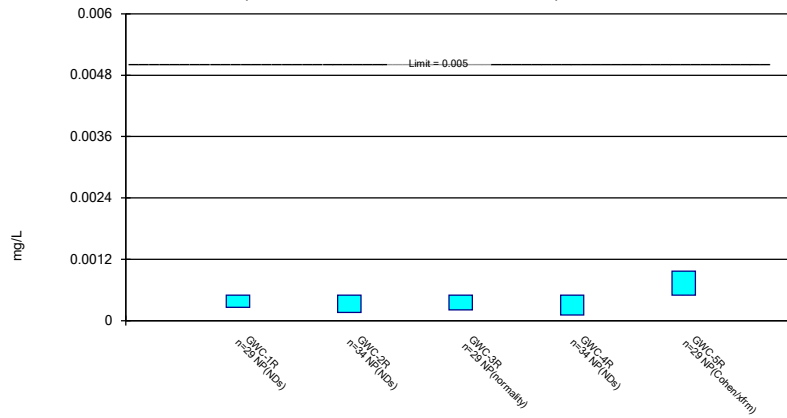
Constituent: Barium Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Beryllium Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

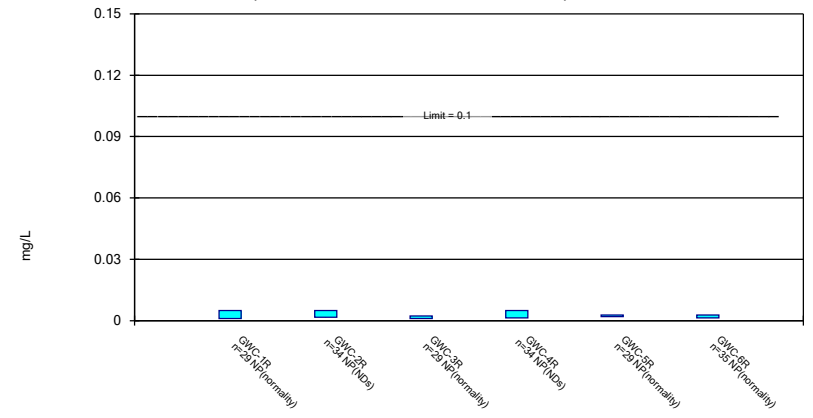
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

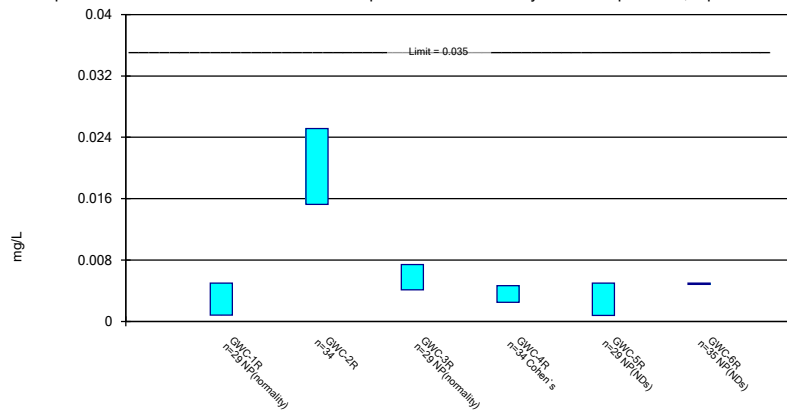
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

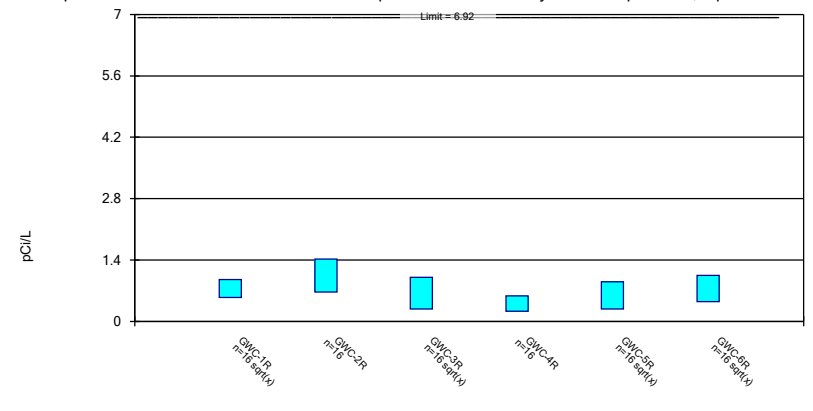
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



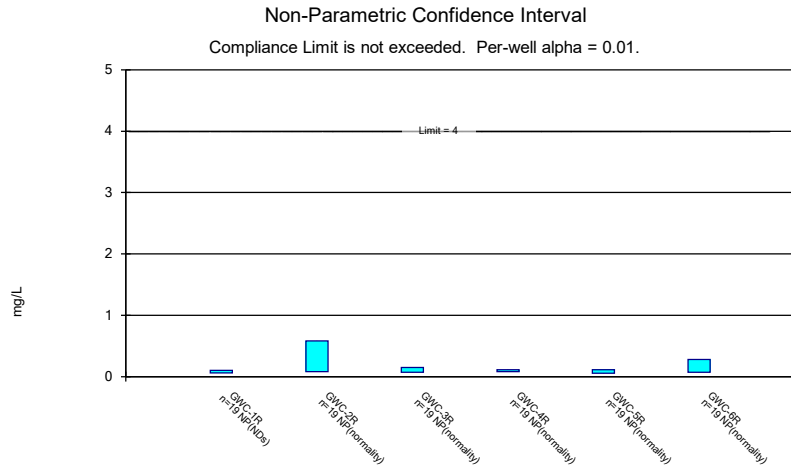
Constituent: Cobalt Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

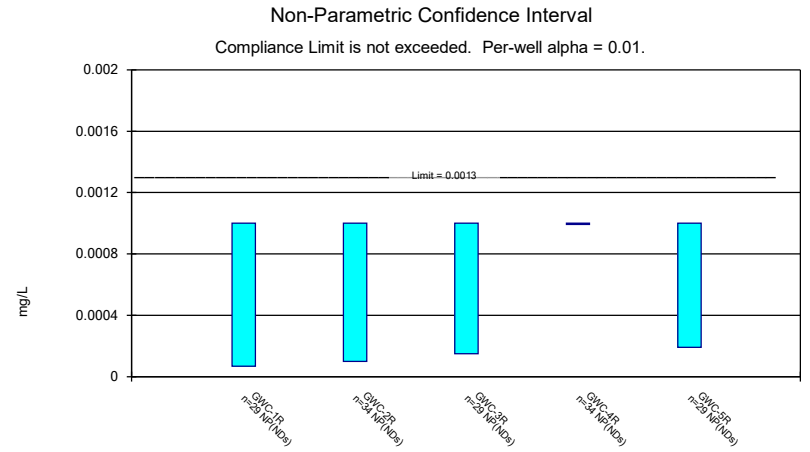
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



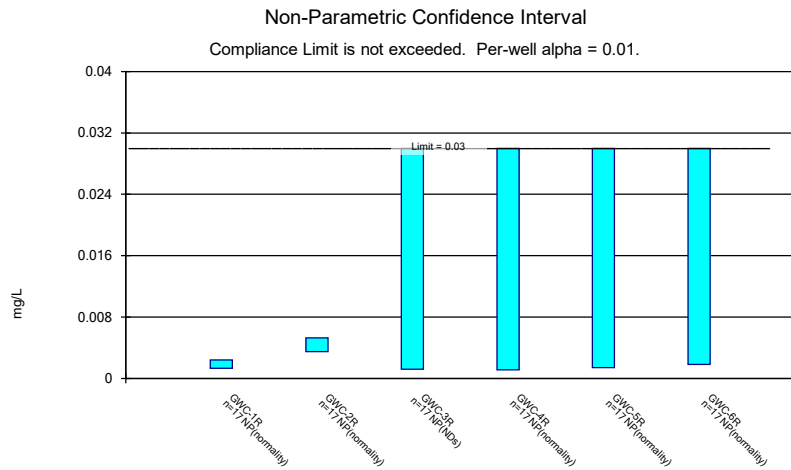
Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confide
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



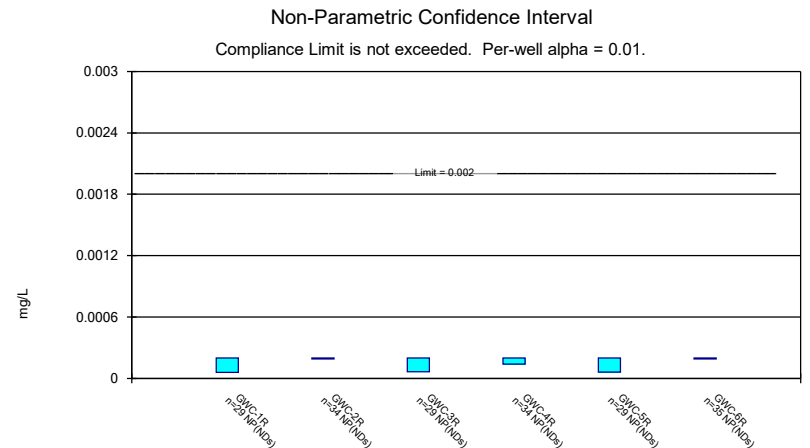
Constituent: Fluoride Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Lead Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



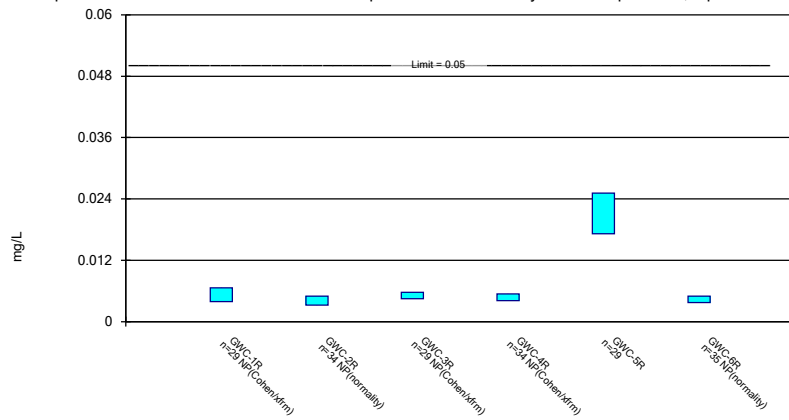
Constituent: Lithium Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Mercury Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

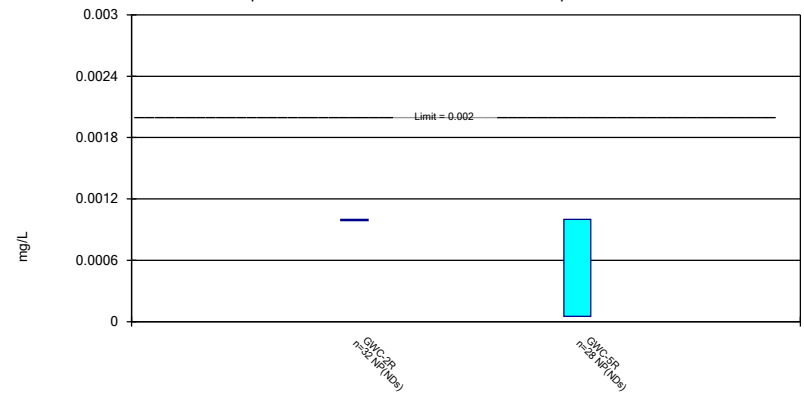
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
11/22/2010	<0.003	<0.003	
1/4/2011	<0.003	<0.003	
2/17/2011	<0.003	<0.003	
3/11/2011	<0.003	<0.003	
3/28/2011	<0.003	<0.003	
9/7/2011	<0.003	<0.003	<0.003
3/4/2012		<0.003	
3/5/2012			<0.003
3/6/2012	<0.003		
9/5/2012			<0.003
9/10/2012		<0.003	
9/11/2012	<0.003		
2/5/2013			<0.003
2/6/2013	<0.003	<0.003	
8/13/2013	<0.003		
8/14/2013		<0.003	<0.003
2/4/2014	<0.003	<0.003	
2/5/2014			<0.003
8/4/2014		<0.003	<0.003
8/5/2014	<0.003		
2/2/2015	<0.003	<0.003	
2/3/2015			<0.003
8/3/2015		<0.003 (D)	<0.003 (D)
8/4/2015	<0.003		
2/16/2016		<0.003	<0.003
2/17/2016	<0.003		
8/31/2016	<0.003		
9/1/2016		0.0014 (J)	<0.003
11/28/2016	<0.003		
11/30/2016		<0.003	
12/1/2016			<0.003
2/22/2017	<0.003		
2/24/2017		<0.003	<0.003
5/10/2017	<0.003	<0.003	<0.003
7/17/2017			<0.003
7/18/2017	<0.003	<0.003	
10/16/2017			<0.003
10/17/2017	<0.003	<0.003	
2/20/2018	<0.003	<0.003	
2/21/2018			<0.003
8/7/2018			<0.003
8/8/2018	<0.003	<0.003	
2/26/2019	<0.003	<0.003	<0.003
6/12/2019	<0.003	0.00028 (J)	
6/13/2019			<0.003
8/19/2019		<0.003	
8/20/2019	<0.003		
8/21/2019			0.00054 (J)
10/9/2019	<0.003		<0.003
10/10/2019		<0.003	
3/18/2020	<0.003	<0.003	<0.003
8/27/2020			<0.003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
8/28/2020	<0.003	<0.003	
9/22/2020	0.0017 (J)	0.00053 (J)	
9/23/2020			0.00031 (J)
3/1/2021	<0.003	<0.003	
3/2/2021			<0.003
8/18/2021	<0.003	<0.003	<0.003
2/8/2022		0.0017 (J)	
2/9/2022	<0.003		<0.003
8/30/2022		0.00094 (J)	<0.003
8/31/2022	<0.003		
Mean	0.002962	0.002701	0.002822
Std. Dev.	0.0002229	0.000758	0.0006648
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.003	0.0017	0.00054

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/2009						<0.005
11/18/2009						<0.005
1/5/2010						<0.005
3/3/2010						<0.005
9/7/2010						<0.005
11/22/2010		<0.005		<0.005		
1/4/2011		<0.005		<0.005		
2/17/2011		<0.005		<0.005		
3/10/2011						<0.005
3/11/2011		<0.005		<0.005		
3/28/2011		<0.005		<0.005		
9/7/2011		<0.005	<0.005	<0.005	<0.005	
9/8/2011	<0.005					<0.005
3/4/2012				<0.005		
3/5/2012	<0.005		<0.005		<0.005	<0.005
3/6/2012		<0.005				
9/5/2012	<0.005		<0.005		<0.005	<0.005
9/10/2012				<0.005		
9/11/2012		<0.005				
2/5/2013	<0.005				<0.005	<0.005
2/6/2013		<0.005	<0.005	<0.005		
8/13/2013	<0.005	<0.005	<0.005			<0.005
8/14/2013				<0.005	<0.005	
2/4/2014	<0.005	<0.005		<0.005		<0.005
2/5/2014			<0.005		<0.005	
8/4/2014			<0.005	<0.005	<0.005	
8/5/2014	<0.005	<0.005				<0.005
2/2/2015	<0.005	<0.005		<0.005		
2/3/2015			<0.005		<0.005	<0.005
8/3/2015			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015	<0.005 (D)	<0.005				<0.005
2/16/2016	<0.005		<0.005	<0.005	<0.005	<0.005
2/17/2016		<0.005				
8/31/2016	<0.005	<0.005	<0.005			
9/1/2016				<0.005	<0.005	<0.005
11/28/2016		<0.005				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	<0.005		
12/1/2016					<0.005	
2/22/2017		<0.005				
2/23/2017	<0.005		<0.005			<0.005
2/24/2017				<0.005	<0.005	
5/9/2017	0.0005 (J)		<0.005			
5/10/2017		<0.005		<0.005	0.0011 (J)	0.0007 (J)
7/17/2017					0.0013 (J)	
7/18/2017	<0.005	<0.005	<0.005	<0.005		0.001 (J)
10/16/2017					0.0011 (J)	
10/17/2017	0.0009 (J)	<0.005		<0.005		
10/18/2017			<0.005			0.0011 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.00091 (J)	

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018						0.0023 (J)
8/7/2018	<0.005		<0.005		0.0021 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						0.00073 (J)
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.00069 (J)	
6/12/2019		<0.005		0.00037 (J)		
6/13/2019	<0.005		0.0016 (J)		0.0012 (J)	0.00068 (J)
8/19/2019				0.00059 (J)		
8/20/2019	0.00044 (J)	0.00075 (J)				0.00072 (J)
8/21/2019			0.00061 (J)		0.00094 (J)	
10/8/2019						0.00056 (J)
10/9/2019	<0.005	<0.005			0.0012 (J)	
10/10/2019			<0.005	<0.005		
3/17/2020	<0.005		0.0016 (J)			<0.005
3/18/2020		<0.005		<0.005	0.0008 (J)	
8/27/2020	0.0011 (J)				0.0016 (J)	0.0011 (J)
8/28/2020		<0.005	<0.005	<0.005		
9/22/2020	<0.005	<0.005	<0.005	<0.005		
9/23/2020					0.00092 (J)	<0.005
3/1/2021	0.0022 (J)	0.0011 (J)		<0.005		
3/2/2021			0.0017 (J)		0.0024 (J)	
3/3/2021						<0.005
8/18/2021	0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)	<0.005
2/8/2022	0.0026 (J)		0.0015 (J)	0.0013 (J)		<0.005
2/9/2022		<0.005			0.0034 (J)	
8/30/2022	0.0035 (J)		<0.005	<0.005	0.0035 (J)	<0.005
8/31/2022		<0.005				
Mean	0.004063	0.00476	0.004304	0.004625	0.003112	0.003968
Std. Dev.	0.001637	0.0009742	0.001418	0.001228	0.001849	0.001798
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0035	0.0011	0.0028	0.0013	0.0012	0.0023

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/2009						0.025
11/18/2009						0.025
1/5/2010						0.018
3/3/2010						0.022
9/7/2010						0.019
11/22/2010		0.12		0.03		
1/4/2011		0.1		0.065		
2/17/2011		0.1		0.061		
3/10/2011						0.017
3/11/2011		0.05		0.066		
3/28/2011		0.087		0.04		
9/7/2011		0.065	0.025	0.041	0.02	
9/8/2011	0.086					0.019
3/4/2012				0.046		
3/5/2012	0.044		0.014		0.048	0.027
3/6/2012		0.049				
9/5/2012	0.034		0.0095		0.07	0.04
9/10/2012				0.084		
9/11/2012		0.045				
2/5/2013	0.03				0.068	0.056
2/6/2013		0.05	0.0094	0.042		
8/13/2013	0.027	0.13	0.13			0.07
8/14/2013				0.042	0.036	
2/4/2014	0.037	0.08		0.046		0.051
2/5/2014			0.066		0.044	
8/4/2014			0.043	0.027	0.058	
8/5/2014	0.048	0.068				0.041
2/2/2015	0.069	0.066		0.02		
2/3/2015			0.031		0.033	0.04
8/3/2015			0.039 (D)	0.017 (D)	0.037 (D)	
8/4/2015	0.023 (D)	0.053				0.042
2/16/2016	0.044		0.038	0.032	0.04	0.068
2/17/2016		0.059				
8/31/2016	0.0711	0.0601	0.0286			
9/1/2016				0.0377	0.0345	0.0536
11/28/2016		0.0562				
11/29/2016	0.0754					0.0459
11/30/2016			0.0258	0.0148		
12/1/2016					0.0342	
2/22/2017		0.0481				
2/23/2017	0.0646		0.0278			0.0581
2/24/2017				0.029	0.0347	
5/9/2017	0.0463		0.0308			
5/10/2017		0.0563		0.0182	0.0363	0.0873
7/17/2017					0.0274	
7/18/2017	0.039	0.049	0.0407	0.0187		0.0994
10/16/2017					0.0151	
10/17/2017	0.0349	0.047		0.0157		
10/18/2017			0.049			0.0757
2/19/2018						0.0703
2/20/2018		0.0467		0.0151		
2/21/2018	0.0322		0.0285		0.0174	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018						0.076
8/7/2018	0.025		0.029		0.015	
8/8/2018		0.049		0.019		
2/25/2019						0.045
2/26/2019	0.028	0.056	0.026	0.017	0.014	
6/12/2019		0.046		0.017		
6/13/2019	0.033		0.021		0.014	0.062
8/19/2019				0.02		
8/20/2019	0.07	0.05				0.06
8/21/2019			0.02		0.014	
10/8/2019						0.054
10/9/2019	0.054	0.045			0.015	
10/10/2019			0.018	0.018		
3/17/2020	0.031		0.024			0.031
3/18/2020		0.04		0.038	0.015	
8/27/2020	0.072				0.013	0.045
8/28/2020		0.044	0.014	0.026		
9/22/2020	0.068	0.04	0.014	0.026		
9/23/2020					0.012	0.044
3/1/2021	0.063	0.043		0.035		
3/2/2021			0.015		0.011	
3/3/2021						0.043
8/18/2021	0.076	0.033	0.014	0.04	0.013	0.035
2/8/2022	0.066		0.013	0.031		0.03
2/9/2022		0.038			0.011	
8/30/2022	0.058		0.01	0.022	0.01	0.028
8/31/2022		0.026				
Mean	0.04998	0.05869	0.02945	0.03286	0.02795	0.04638
Std. Dev.	0.01885	0.02368	0.02337	0.01687	0.0174	0.02085
Upper Lim.	0.05862	0.06373	0.03407	0.03779	0.03084	0.05498
Lower Lim.	0.04135	0.0475	0.01888	0.0249	0.01773	0.03778

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.003		<0.003	
1/4/2011		<0.003		<0.003	
2/17/2011		<0.003		<0.003	
3/11/2011		<0.003		<0.003	
3/28/2011		<0.003		<0.003	
9/7/2011		<0.003	<0.003	<0.003	<0.003
9/8/2011	<0.003				
3/4/2012				<0.003	
3/5/2012	<0.003		<0.003		<0.003
3/6/2012		<0.003			
9/5/2012	<0.003		<0.003		<0.003
9/10/2012				<0.003	
9/11/2012		<0.003			
2/5/2013	<0.003				<0.003
2/6/2013		<0.003	<0.003	<0.003	
8/13/2013	<0.003	<0.003	<0.003		
8/14/2013				<0.003	<0.003
2/4/2014	<0.003	<0.003		<0.003	
2/5/2014			<0.003		<0.003
8/4/2014			0.0011 (J)	<0.003	0.00026 (J)
8/5/2014	7.5E-05 (J)	<0.003			
2/2/2015	0.00023 (J)	<0.003		<0.003	
2/3/2015			0.00061 (J)		0.00023 (J)
8/3/2015			0.00051 (JD)	<0.003 (D)	0.00046 (JD)
8/4/2015	<0.003 (D)	<0.003			
2/16/2016	<0.003		0.00084 (J)	<0.003	0.00048 (J)
2/17/2016		<0.003			
8/31/2016	0.0001 (J)	<0.003	0.0003 (J)		
9/1/2016				<0.003	0.0005 (J)
11/28/2016		<0.003			
11/29/2016	<0.003				
11/30/2016			0.0004 (J)	<0.003	
12/1/2016					0.0003 (J)
2/22/2017		<0.003			
2/23/2017	<0.003		0.0003 (J)		
2/24/2017				<0.003	0.0002 (J)
5/9/2017	8E-05 (J)		0.0002 (J)		
5/10/2017		<0.003		<0.003	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.003	<0.003	0.0002 (J)	<0.003	
10/16/2017					0.0006 (J)
10/17/2017	0.0001 (J)	<0.003		<0.003	
10/18/2017			0.0004 (J)		
2/20/2018		<0.003		<0.003	
2/21/2018	<0.003		<0.003		<0.003
8/7/2018	7.4E-05 (J)		0.00026 (J)		0.00096 (J)
8/8/2018		7E-05 (J)		<0.003	
2/26/2019	7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.003	0.0015 (J)
6/12/2019		<0.003		<0.003	
6/13/2019	<0.003		0.00051 (J)		0.0015 (J)
8/19/2019				<0.003	
8/20/2019	0.0001 (J)	0.00017 (J)			

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
8/21/2019			0.00046 (J)		0.0028 (J)
10/9/2019	0.00013 (J)	0.00014 (J)			0.0022 (J)
10/10/2019			0.00039 (J)	<0.003	
3/17/2020	7.6E-05 (J)		0.00095 (J)		
3/18/2020		0.00012 (J)		<0.003	0.0028 (J)
8/27/2020	0.00024 (J)				0.0023 (J)
8/28/2020		0.0002 (J)	0.0005 (J)	<0.003	
9/22/2020	0.00021 (J)	0.00021 (J)	0.00042 (J)	5.8E-05 (J)	
9/23/2020					0.0023 (J)
3/1/2021	0.00023 (J)	0.00032 (J)		6E-05 (J)	
3/2/2021			0.00081		0.0037
8/18/2021	0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033
2/8/2022	0.00032 (J)		0.001	8.5E-05 (J)	
2/9/2022		0.00023 (J)			0.0036
8/30/2022	0.00037 (J)		0.00056	7.2E-05 (J)	0.0032
8/31/2022		0.00023 (J)			
Mean	0.001438	0.002087	0.001145	0.00257	0.001893
Std. Dev.	0.001435	0.001341	0.001093	0.001051	0.001267
Upper Lim.	0.003	0.003	0.0011	0.003	0.003
Lower Lim.	0.00013	0.00023	0.0004	0.00011	0.00048

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.0005		<0.0005	
1/4/2011		<0.0005		<0.0005	
2/17/2011		<0.0005		<0.0005	
3/11/2011		<0.0005		<0.0005	
3/28/2011		<0.0005		<0.0005	
9/7/2011		<0.0005	<0.0005	<0.0005	<0.0005
9/8/2011	<0.0005				
3/4/2012				<0.0005	
3/5/2012	<0.0005		<0.0005		<0.0005
3/6/2012		<0.0005			
9/5/2012	<0.0005		<0.0005		<0.0005
9/10/2012				<0.0005	
9/11/2012		<0.0005			
2/5/2013	<0.0005				<0.0005
2/6/2013		<0.0005	<0.0005	<0.0005	
8/13/2013	<0.0005	<0.0005	<0.0005		
8/14/2013				<0.0005	<0.0005
2/4/2014	<0.0005	<0.0005		<0.0005	
2/5/2014			<0.0005		<0.0005
8/4/2014			0.00034 (J)	<0.0005	0.00045 (J)
8/5/2014	<0.0005	<0.0005			
2/2/2015	<0.0005	<0.0005		<0.0005	
2/3/2015			<0.0005		<0.0005
8/3/2015			<0.0005 (D)	<0.0005 (D)	0.00046 (JD)
8/4/2015	<0.0005 (D)	<0.0005			
2/16/2016	<0.0005		0.00025 (J)	<0.0005	0.00097 (J)
2/17/2016		<0.0005			
8/31/2016	<0.0005	0.0001 (J)	<0.0005		
9/1/2016				0.0001 (J)	0.0005 (J)
11/28/2016		0.0001 (J)			
11/29/2016	8E-05 (J)				
11/30/2016			<0.0005	<0.0005	
12/1/2016					0.0004 (J)
2/22/2017		<0.0005			
2/23/2017	<0.0005		<0.0005		
2/24/2017				<0.0005	0.0003 (J)
5/9/2017	<0.0005		<0.0005		
5/10/2017		<0.0005		<0.0005	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	
10/16/2017					0.0006 (J)
10/17/2017	<0.0005	<0.0005		<0.0005	
10/18/2017			<0.0005		
2/20/2018		<0.0005		<0.0005	
2/21/2018	<0.0005		<0.0005		<0.0005
8/7/2018	<0.0005		<0.0005		0.00083 (J)
8/8/2018		<0.0005		<0.0005	
2/26/2019	<0.0005	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)
6/12/2019		<0.0005		<0.0005	
6/13/2019	<0.0005		0.00021 (J)		0.00073 (J)
8/19/2019				<0.0005	
8/20/2019	<0.0005	<0.0005			

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
8/21/2019			<0.0005		0.0012 (J)
10/9/2019	<0.0005	<0.0005			0.0011 (J)
10/10/2019			0.00018 (J)	<0.0005	
3/17/2020	<0.0005		0.00037 (J)		
3/18/2020		<0.0005		<0.0005	0.0012 (J)
8/27/2020	0.00012 (J)				0.00091 (J)
8/28/2020		0.00015 (J)	0.00014 (J)	<0.0005	
9/22/2020	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005	
9/23/2020					0.00094 (J)
3/1/2021	0.00013 (J)	0.00016 (J)		<0.0005	
3/2/2021			0.00021 (J)		0.0011
8/18/2021	0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001
2/8/2022	0.00019 (J)		0.00018 (J)	<0.0005	
2/9/2022		<0.0005			0.001
8/30/2022	0.00026 (J)		0.00016 (J)	0.00011 (J)	0.00098
8/31/2022		0.00012 (J)			
Mean	0.0004176	0.000425	0.0003793	0.0004768	0.0006959
Std. Dev.	0.0001511	0.00015	0.0001545	9.435E-05	0.0002849
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.00097
Lower Lim.	0.00026	0.00016	0.00021	0.00011	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/2009						<0.005
11/18/2009						<0.005
1/5/2010						<0.005
3/3/2010						<0.005
9/7/2010						<0.005
11/22/2010		<0.005		<0.005		
1/4/2011		<0.005		0.0062		
2/17/2011		<0.005		<0.005		
3/10/2011						<0.005
3/11/2011		<0.005		<0.005		
3/28/2011		<0.005		<0.005		
9/7/2011		<0.005	<0.005	<0.005	<0.005	
9/8/2011	<0.005					0.0018
3/4/2012				<0.005		
3/5/2012	<0.005		<0.005		<0.005	<0.005
3/6/2012		<0.005				
9/5/2012	<0.005		<0.005		<0.005	0.0013
9/10/2012				<0.005		
9/11/2012		<0.005				
2/5/2013	<0.005				<0.005	<0.005
2/6/2013		<0.005	<0.005	<0.005		
8/13/2013	<0.005	0.0017	0.0019			0.0025
8/14/2013				<0.005	0.0016	
2/4/2014	<0.005	<0.005		<0.005		0.0013
2/5/2014			0.0023		0.0018	
8/4/2014			0.002	<0.005	0.0029	
8/5/2014	<0.005	<0.005				0.0018
2/2/2015	0.0028	<0.005		<0.005		
2/3/2015			0.0014		0.0017	0.0015
8/3/2015			0.0012 (JD)	<0.005 (D)	0.0028 (D)	
8/4/2015	<0.005 (D)	<0.005				0.0028
2/16/2016	<0.005		0.0017	<0.005	0.0028	0.001 (J)
2/17/2016		<0.005				
8/31/2016	0.0012 (J)	<0.005	0.0013 (J)			
9/1/2016				<0.005	0.0021 (J)	0.0015 (J)
11/28/2016		<0.005				
11/29/2016	0.0009 (J)					0.0014 (J)
11/30/2016			0.001 (J)	0.0013 (J)		
12/1/2016					0.0017 (J)	
2/22/2017		<0.005				
2/23/2017	0.001 (J)		0.0012 (J)			0.0017 (J)
2/24/2017				<0.005	0.0018 (J)	
5/9/2017	0.0011 (J)		0.0016 (J)			
5/10/2017		0.0008 (J)		0.0007 (J)	0.0024 (J)	0.0015 (J)
7/17/2017					0.0017 (J)	
7/18/2017	0.0008 (J)	<0.005	0.0009 (J)	0.0011 (J)		0.0012 (J)
10/16/2017					0.0023 (J)	
10/17/2017	0.001 (J)	<0.005		<0.005		
10/18/2017			0.001 (J)			0.0012 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		0.0024 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						<0.005
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.0019 (J)	
6/12/2019		<0.005		<0.005		
6/13/2019	0.0009 (J)		0.00073 (J)		0.0018 (J)	0.00089 (J)
8/19/2019				0.00051 (J)		
8/20/2019	0.0011 (J)	<0.005				0.0017 (J)
8/21/2019			0.001 (J)		0.0024 (J)	
10/8/2019						0.0014 (J)
10/9/2019	0.0012 (J)	0.00059 (J)			0.0024 (J)	
10/10/2019			0.0014 (J)	0.00057 (J)		
3/17/2020	0.001 (J)		0.0013 (J)			0.0013 (J)
3/18/2020		0.0004 (J)		<0.005	0.0023 (J)	
8/27/2020	0.0013 (J)				0.0022 (J)	0.0012 (J)
8/28/2020		0.00057 (J)	0.00088 (J)	<0.005		
9/22/2020	0.0012 (J)	<0.005	0.0011 (J)	<0.005		
9/23/2020					0.002 (J)	0.0015 (J)
3/1/2021	0.0012 (J)	<0.005		<0.005		
3/2/2021			0.001 (J)		0.0021 (J)	
3/3/2021						0.0014 (J)
8/18/2021	0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)	0.0015 (J)
2/8/2022	0.002 (J)		0.0011 (J)	<0.005		0.0017 (J)
2/9/2022		<0.005			0.0022 (J)	
8/30/2022	0.0015 (J)		<0.005	<0.005	0.0019 (J)	0.0016 (J)
8/31/2022		<0.005				
Mean	0.002817	0.004384	0.002449	0.004423	0.002638	0.00262
Std. Dev.	0.001902	0.001516	0.001775	0.00153	0.001147	0.001671
Upper Lim.	0.005	0.005	0.0023	0.005	0.0028	0.0028
Lower Lim.	0.0011	0.0017	0.0011	0.0013	0.0019	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/2009						<0.005
11/18/2009						<0.005
1/5/2010						<0.005
3/3/2010						<0.005
9/7/2010						<0.005
11/22/2010		0.038		<0.005		
1/4/2011		0.049		0.0036		
2/17/2011		0.044		0.0035		
3/10/2011						<0.005
3/11/2011		0.038		0.0053		
3/28/2011		0.029		<0.005		
9/7/2011		0.031	<0.005	0.0033	<0.005	
9/8/2011	0.015					<0.005
3/4/2012				0.0032		
3/5/2012	<0.005		<0.005		<0.005	<0.005
3/6/2012		0.021				
9/5/2012	0.0018		<0.005		<0.005	<0.005
9/10/2012				0.0067		
9/11/2012		0.017				
2/5/2013	0.0013				<0.005	<0.005
2/6/2013		0.025	<0.005	0.0024		
8/13/2013	<0.005	0.023	<0.005			<0.005
8/14/2013				0.0014	<0.005	
2/4/2014	<0.005	0.019		<0.005		<0.005
2/5/2014			<0.005		<0.005	
8/4/2014			<0.005	<0.005	<0.005	
8/5/2014	<0.005	0.023				<0.005
2/2/2015	0.0015	0.022		<0.005		
2/3/2015			<0.005		<0.005	<0.005
8/3/2015			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015	<0.005 (D)	0.021				0.0014
2/16/2016	<0.005		<0.005	0.0082	<0.005	<0.005
2/17/2016		0.024				
8/31/2016	0.0006 (J)	0.0239	<0.005			
9/1/2016				0.0023 (J)	<0.005	<0.005
11/28/2016		0.0189				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	0.0008 (J)		
12/1/2016					<0.005	
2/22/2017		0.0184				
2/23/2017	0.0009 (J)		<0.005			<0.005
2/24/2017				0.0025 (J)	<0.005	
5/9/2017	0.0008 (J)		<0.005			
5/10/2017		0.0213		<0.005	<0.005	<0.005
7/17/2017					<0.005	
7/18/2017	0.0032 (J)	0.0261	<0.005	0.0005 (J)		<0.005
10/16/2017					<0.005	
10/17/2017	0.0007 (J)	0.0182		0.0006 (J)		
10/18/2017			<0.005			<0.005
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		<0.005	
8/8/2018		0.014		0.001 (J)		
2/25/2019						<0.005
2/26/2019	<0.005	0.029	<0.005	<0.005	<0.005	
6/12/2019		0.013		0.00078 (J)		
6/13/2019	0.00033 (J)		0.01		<0.005	<0.005
8/19/2019				0.001 (J)		
8/20/2019	0.00079 (J)	0.014				<0.005
8/21/2019			0.0016 (J)		0.00034 (J)	
10/8/2019						<0.005
10/9/2019	0.00064 (J)	0.024			0.00031 (J)	
10/10/2019			<0.005	0.00099 (J)		
3/17/2020	0.00054 (J)		0.011			<0.005
3/18/2020		0.019		0.0031 (J)	0.00044 (J)	
8/27/2020	0.00081 (J)				<0.005	<0.005
8/28/2020		0.0072	0.0041 (J)	0.00049 (J)		
9/22/2020	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)		
9/23/2020					<0.005	<0.005
3/1/2021	0.00083 (J)	0.00074 (J)		0.0016 (J)		
3/2/2021			0.0086		0.00039 (J)	
3/3/2021						<0.005
8/18/2021	0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)	<0.005
2/8/2022	0.0019 (J)		0.0074	0.0034 (J)		<0.005
2/9/2022		0.00085 (J)			0.00064 (J)	
8/30/2022	0.00087 (J)		0.0021 (J)	0.002 (J)	0.00077 (J)	<0.005
8/31/2022		0.0036 (J)				
Mean	0.002921	0.02021	0.00541	0.00314	0.003911	0.004897
Std. Dev.	0.00303	0.01181	0.002147	0.002029	0.001966	0.0006085
Upper Lim.	0.005	0.02517	0.0074	0.004654	0.005	0.005
Lower Lim.	0.0008	0.01526	0.0041	0.002487	0.00077	0.005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
11/28/2016		0.387 (U)				
11/29/2016	0.551 (U)					0.232 (U)
11/30/2016			0.0236 (U)	0.477 (U)		
12/1/2016					0.0588 (U)	
2/22/2017		0.739 (U)				
2/23/2017	0.504 (U)		0.728 (U)			1.18 (U)
2/24/2017				0.305 (U)	0.487 (U)	
5/9/2017	0.434 (U)		0.0367 (U)			
5/10/2017		0.458 (U)		0.0659 (U)	0.289 (U)	0.658 (U)
7/17/2017					0.528 (U)	
7/18/2017	1.37	0.708 (U)	0.237 (U)	0.199 (U)		0.797 (U)
10/16/2017					0.558 (U)	
10/17/2017	0.937 (U)	0.402 (U)		0.294 (U)		
10/18/2017			0.706 (U)			0.239 (U)
2/19/2018						0.973 (D)
2/20/2018		1.64 (D)		1.03 (UD)		
2/21/2018	0.817 (UD)		0.526 (UD)		1.13 (UD)	
8/6/2018						0.866 (U)
8/7/2018	0.578 (U)		0.376 (U)		0.51 (U)	
8/8/2018		2.01		0.0378 (U)		
8/19/2019				0.637 (U)		
8/20/2019	1.25 (U)	1.22				0.409 (U)
8/21/2019			0.774 (U)		1.82	
10/8/2019						0.91 (U)
10/9/2019	0.482 (U)	0.71 (U)			0.498 (U)	
10/10/2019			0.433 (U)	0.525 (U)		
3/17/2020	1.4		2.84			2.5
3/18/2020		1.3		0.866 (U)	0.788 (U)	
8/27/2020	0.413 (U)				0.691 (U)	0.514 (U)
8/28/2020		1.52 (U)	0.494 (U)	0.336 (U)		
9/22/2020	0.7 (U)	2.09	1.24 (U)	0.509 (U)		
9/23/2020					0 (U)	0.96 (U)
3/1/2021	0.966 (U)	0.976		0.349 (U)		
3/2/2021			1.13 (U)		0.686 (U)	
3/3/2021						0.721 (U)
8/18/2021	0.713 (U)	0.583 (U)	0.544 (U)	0.109 (U)	0.437 (U)	0.352 (U)
2/8/2022	0.649 (U)		0.389 (U)	0.319 (U)		0.413 (U)
2/9/2022		0.42 (U)			0.48 (U)	
8/30/2022	0.476 (U)		0.884 (U)	0.433 (U)	1.36	0.861 (U)
8/31/2022		1.55				
Mean	0.765	1.045	0.7101	0.4057	0.6451	0.7866
Std. Dev.	0.331	0.5815	0.6621	0.2715	0.4615	0.5389
Upper Lim.	0.9498	1.423	1.003	0.5824	0.9013	1.046
Lower Lim.	0.5466	0.6662	0.2829	0.2291	0.283	0.452

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.05 (J)	0.08 (J)	0.07 (J)			
9/1/2016				0.15 (J)	0.03 (J)	0.28 (J)
11/28/2016		0.03 (J)				
11/29/2016	0.04 (J)					0.05 (J)
11/30/2016			0.03 (J)	0.11 (J)		
12/1/2016					<0.1	
2/22/2017		0.04 (J)				
2/23/2017	0.06 (J)		0.04 (J)			0.07 (J)
2/24/2017				0.08 (J)	0.03 (J)	
5/9/2017	0.06 (J)		<0.1			
5/10/2017		0.05 (J)		0.04 (J)	<0.1	0.02 (J)
7/17/2017					0.37	
7/18/2017	<0.1	<0.1	<0.1	<0.1		<0.1
10/16/2017					<0.1	
10/17/2017	<0.1	<0.1		<0.1		
10/18/2017			0.22 (J)			<0.1
2/19/2018						<0.1
2/20/2018		<0.1		<0.1		
2/21/2018	<0.1		<0.1		<0.1	
8/6/2018						<0.1
8/7/2018	<0.1		<0.1		<0.1	
8/8/2018		<0.1		<0.1		
2/25/2019						<0.1
2/26/2019	<0.1	<0.1	<0.1	<0.1	0.035 (J)	
6/12/2019		0.58		<0.1		
6/13/2019	<0.1		0.58		<0.1	<0.1
8/19/2019				<0.1		
8/20/2019	<0.1	<0.1				<0.1
8/21/2019			0.037 (J)		<0.1	
10/8/2019						<0.1
10/9/2019	<0.1	<0.1			0.35	
10/10/2019			<0.1	<0.1		
3/17/2020	<0.1		0.1 (J)			<0.1
3/18/2020		<0.1		<0.1	<0.1	
8/27/2020	<0.1				0.064 (J)	<0.1
8/28/2020		<0.1	0.097 (J)	<0.1		
9/22/2020	<0.1	<0.1	<0.1	<0.1		
9/23/2020					<0.1	<0.1
3/1/2021	<0.1	<0.1		<0.1		
3/2/2021			0.15		0.094 (J)	
3/3/2021						<0.1
8/18/2021	<0.1	<0.1	0.16	<0.1	0.056 (J)	<0.1
2/8/2022	<0.1		0.16	<0.1		<0.1
2/9/2022		<0.1			0.053 (J)	
8/30/2022	<0.1		0.14	0.05 (J)	0.11	0.064 (J)
8/31/2022		<0.1				
Mean	0.09	0.1147	0.1307	0.09632	0.1101	0.09916
Std. Dev.	0.02028	0.1149	0.1182	0.02216	0.09221	0.04915
Upper Lim.	0.1	0.58	0.15	0.11	0.11	0.28
Lower Lim.	0.06	0.08	0.07	0.08	0.053	0.07

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.001		<0.001	
1/4/2011		<0.001		<0.001	
2/17/2011		<0.001		<0.001	
3/11/2011		<0.001		<0.001	
3/28/2011		<0.001		<0.001	
9/7/2011		<0.001	<0.001	<0.001	<0.001
9/8/2011	<0.001				
3/4/2012				<0.001	
3/5/2012	<0.001		<0.001		<0.001
3/6/2012		<0.001			
9/5/2012	<0.001		<0.001		<0.001
9/10/2012				<0.001	
9/11/2012		<0.001			
2/5/2013	<0.001				<0.001
2/6/2013		<0.001	<0.001	<0.001	
8/13/2013	<0.001	<0.001	<0.001		
8/14/2013				<0.001	<0.001
2/4/2014	<0.001	<0.001		<0.001	
2/5/2014			<0.001		<0.001
8/4/2014			<0.001	<0.001	<0.001
8/5/2014	<0.001	<0.001			
2/2/2015	<0.001	<0.001		<0.001	
2/3/2015			<0.001		<0.001
8/3/2015			<0.001 (D)	<0.001 (D)	<0.001 (D)
8/4/2015	<0.001 (D)	<0.001			
2/16/2016	<0.001		<0.001	<0.001	<0.001
2/17/2016		<0.001			
8/31/2016	<0.001	<0.001	0.0001 (J)		
9/1/2016				<0.001	<0.001
11/28/2016		<0.001			
11/29/2016	<0.001				
11/30/2016			<0.001	<0.001	
12/1/2016					<0.001
2/22/2017		<0.001			
2/23/2017	<0.001		<0.001		
2/24/2017				<0.001	<0.001
5/9/2017	<0.001		<0.001		
5/10/2017		0.0001 (J)		<0.001	<0.001
7/17/2017					<0.001
7/18/2017	<0.001	7E-05 (J)	<0.001	<0.001	
10/16/2017					<0.001
10/17/2017	<0.001	<0.001		<0.001	
10/18/2017			8E-05 (J)		
2/20/2018		<0.001		<0.001	
2/21/2018	<0.001		<0.001		<0.001
8/7/2018	<0.001		<0.001		<0.001
8/8/2018		<0.001		<0.001	
2/26/2019	<0.001	<0.001	<0.001	<0.001	<0.001
6/12/2019		<0.001		<0.001	
6/13/2019	<0.001		<0.001		<0.001
8/19/2019				<0.001	
8/20/2019	<0.001	6.1E-05 (J)			

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
8/21/2019			8.2E-05 (J)		7E-05 (J)
10/9/2019	5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)
10/10/2019			<0.001	<0.001	
3/17/2020	<0.001		0.00015 (J)		
3/18/2020		<0.001		<0.001	7.9E-05 (J)
8/27/2020	6.7E-05 (J)				4.9E-05 (J)
8/28/2020		8.4E-05 (J)	5.4E-05 (J)	<0.001	
9/22/2020	<0.001	8.2E-05 (J)	6.4E-05 (J)	4.1E-05 (J)	
9/23/2020					0.00019 (J)
3/1/2021	<0.001	7E-05 (J)		<0.001	
3/2/2021			9.6E-05 (J)		5.4E-05 (J)
8/18/2021	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2022	<0.001		<0.001	<0.001	
2/9/2022		<0.001			<0.001
8/30/2022	<0.001		<0.001	<0.001	<0.001
8/31/2022		<0.001			
Mean	0.0009351	0.0008095	0.0007802	0.0009718	0.0008104
Std. Dev.	0.0002425	0.0003798	0.0003968	0.0001645	0.0003785
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	6.7E-05	0.0001	0.00015	0.001	0.00019

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0024 (J)	<0.03	<0.03			
9/1/2016				<0.03	<0.03	<0.03
11/28/2016		<0.03				
11/29/2016	<0.03					<0.03
11/30/2016			<0.03	<0.03		
12/1/2016					<0.03	
2/22/2017		0.0036 (J)				
2/23/2017	<0.03		<0.03			0.0028 (J)
2/24/2017				<0.03	<0.03	
5/9/2017	0.002 (J)		<0.03			
5/10/2017		0.0035 (J)		<0.03	<0.03	0.0054 (J)
7/17/2017					<0.03	
7/18/2017	<0.03	0.0035 (J)	<0.03	<0.03		0.002 (J)
10/16/2017					<0.03	
10/17/2017	0.0016 (J)	0.0035 (J)		<0.03		
10/18/2017			<0.03			0.0026 (J)
2/19/2018						<0.03
2/20/2018		<0.03		<0.03		
2/21/2018	0.0014 (J)		<0.03		<0.03	
8/6/2018						<0.03
8/7/2018	0.001 (J)		<0.03		<0.03	
8/8/2018		0.0031 (J)		<0.03		
8/19/2019				0.00094 (J)		
8/20/2019	0.0012 (J)	0.0043 (J)				0.002 (J)
8/21/2019			<0.03		0.0015 (J)	
10/8/2019						0.0021 (J)
10/9/2019	0.0013 (J)	0.0047 (J)			0.0014 (J)	
10/10/2019			<0.03	0.0013 (J)		
3/17/2020	0.00094 (J)		0.0012 (J)			0.0018 (J)
3/18/2020		0.0053 (J)		<0.03	0.0017 (J)	
8/27/2020	0.0017 (J)				0.0013 (J)	0.0083 (J)
8/28/2020		0.0047 (J)	<0.03	0.0011 (J)		
9/22/2020	0.0015 (J)	0.0042 (J)	<0.03	0.0013 (J)		
9/23/2020					0.0012 (J)	0.0023 (J)
3/1/2021	0.0015 (J)	0.0039 (J)		<0.03		
3/2/2021			0.00088 (J)		0.0016 (J)	
3/3/2021						0.0018 (J)
8/18/2021	0.0019 (J)	0.0049 (J)	0.001 (J)	0.00085 (J)	0.0016 (J)	0.0016 (J)
2/8/2022	0.0018 (J)		0.00094 (J)	<0.03		0.0016 (J)
2/9/2022		0.0042 (J)			0.0018 (J)	
8/30/2022	0.0019 (J)		<0.03	<0.03	0.0014 (J)	0.0013 (J)
8/31/2022		0.0042 (J)				
Mean	0.006596	0.008682	0.02318	0.0215	0.01491	0.009153
Std. Dev.	0.01117	0.01019	0.01268	0.01357	0.01466	0.01204
Upper Lim.	0.0024	0.0053	0.03	0.03	0.03	0.03
Lower Lim.	0.0013	0.0035	0.0012	0.0011	0.0014	0.0018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/2009						<0.0002
11/18/2009						<0.0002
1/5/2010						<0.0002
3/3/2010						<0.0002
9/7/2010						<0.0002
11/22/2010		<0.0002		<0.0002		
1/4/2011		<0.0002		<0.0002		
2/17/2011		<0.0002		<0.0002		
3/10/2011						<0.0002
3/11/2011		<0.0002		<0.0002		
3/28/2011		<0.0002		<0.0002		
9/7/2011		<0.0002	<0.0002	<0.0002	<0.0002	
9/8/2011	<0.0002					<0.0002
3/4/2012				<0.0002		
3/5/2012	<0.0002		<0.0002		<0.0002	<0.0002
3/6/2012		<0.0002				
9/5/2012	<0.0002		<0.0002		<0.0002	<0.0002
9/10/2012				<0.0002		
9/11/2012		<0.0002				
2/5/2013	<0.0002				<0.0002	<0.0002
2/6/2013		<0.0002	<0.0002	0.00014		
8/13/2013	<0.0002	<0.0002	<0.0002			<0.0002
8/14/2013				<0.0002	<0.0002	
2/4/2014	<0.0002	<0.0002		<0.0002		<0.0002
2/5/2014			<0.0002		<0.0002	
8/4/2014			<0.0002	<0.0002	<0.0002	
8/5/2014	<0.0002	<0.0002				<0.0002
2/2/2015	<0.0002	<0.0002		<0.0002		
2/3/2015			<0.0002		<0.0002	<0.0002
8/3/2015			<0.0002 (D)	<0.0002 (D)	<0.0002 (D)	
8/4/2015	<0.0002 (D)	<0.0002				<0.0002
2/16/2016	<0.0002		1.34E-05 (J)	<0.0002	<0.0002	1.13E-05 (J)
2/17/2016		<0.0002				
8/31/2016	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
11/28/2016		<0.0002				
11/29/2016	<0.0002					<0.0002
11/30/2016			<0.0002	<0.0002		
12/1/2016					<0.0002	
2/22/2017		<0.0002				
2/23/2017	<0.0002		<0.0002			<0.0002
2/24/2017				<0.0002	<0.0002	
5/9/2017	<0.0002		<0.0002			
5/10/2017		<0.0002		<0.0002	<0.0002	<0.0002
7/17/2017					<0.0002	
7/18/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/16/2017					<0.0002	
10/17/2017	<0.0002	<0.0002		<0.0002		
10/18/2017			<0.0002			<0.0002
2/19/2018						<0.0002
2/20/2018		<0.0002		<0.0002		
2/21/2018	<0.0002		<0.0002		<0.0002	

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018						<0.0002
8/7/2018	<0.0002		<0.0002		<0.0002	
8/8/2018		<0.0002		<0.0002		
2/25/2019						6.7E-05 (J)
2/26/2019	5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	
6/12/2019		<0.0002		<0.0002		
6/13/2019	<0.0002		<0.0002		<0.0002	<0.0002
8/19/2019				<0.0002		
8/20/2019	<0.0002	<0.0002				<0.0002
8/21/2019			<0.0002		<0.0002	
10/8/2019						<0.0002
10/9/2019	<0.0002	<0.0002			<0.0002	
10/10/2019			0.00043 (J)	<0.0002		
5/6/2020	<0.0002					<0.0002
5/7/2020		<0.0002	<0.0002	<0.0002	<0.0002	
8/27/2020	<0.0002				<0.0002	<0.0002
8/28/2020		<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/23/2020					<0.0002	<0.0002
3/1/2021	<0.0002	<0.0002		<0.0002		
3/2/2021			<0.0002		<0.0002	
3/3/2021						<0.0002
8/18/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2022	<0.0002		<0.0002	<0.0002		<0.0002
2/9/2022		<0.0002			<0.0002	
8/30/2022	<0.0002		<0.0002	0.00014 (J)	<0.0002	<0.0002
8/31/2022		<0.0002				
Mean	0.0001951	0.0001962	0.0001968	0.0001923	0.0001952	0.0001908
Std. Dev.	2.618E-05	2.212E-05	6.15E-05	2.771E-05	2.6E-05	3.848E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.9E-05	0.0002	6.4E-05	0.00014	6E-05	0.0002

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/2009						<0.005
11/18/2009						<0.005
1/5/2010						<0.005
3/3/2010						<0.005
9/7/2010						<0.005
11/22/2010		<0.005		<0.005		
1/4/2011		<0.005		<0.005		
2/17/2011		<0.005		<0.005		
3/10/2011						<0.005
3/11/2011		<0.005		<0.005		
3/28/2011		<0.005		<0.005		
9/7/2011		<0.005	<0.005	<0.005	<0.005	
9/8/2011	<0.005					<0.005
3/4/2012				<0.005		
3/5/2012	<0.005		<0.005		0.014	<0.005
3/6/2012		<0.005				
9/5/2012	<0.005		<0.005		0.012	<0.005
9/10/2012				0.011		
9/11/2012		<0.005				
2/5/2013	<0.005				0.011	<0.005
2/6/2013		<0.005	<0.005	0.011		
8/13/2013	<0.005	<0.005	0.0057			<0.005
8/14/2013				0.013	0.025	
2/4/2014	<0.005	<0.005		0.017		<0.005
2/5/2014			<0.005		0.02	
8/4/2014			<0.005	0.0085	0.032	
8/5/2014	<0.005	<0.005				<0.005
2/2/2015	<0.005	<0.005		0.0089		
2/3/2015			<0.005		0.011	<0.005
8/3/2015			<0.005 (D)	0.0067 (D)	0.046 (D)	
8/4/2015	<0.005 (D)	<0.005				<0.005
2/16/2016	<0.005		<0.005	0.0047 (J)	0.022	<0.005
2/17/2016		<0.005				
8/31/2016	0.0039 (J)	0.0029 (J)	0.0038 (J)			
9/1/2016				0.0132	0.0212	0.002 (J)
11/28/2016		0.0019 (J)				
11/29/2016	0.0033 (J)					0.0017 (J)
11/30/2016			0.0054 (J)	0.0046 (J)		
12/1/2016					0.0234	
2/22/2017		0.0015 (J)				
2/23/2017	0.0097 (J)		0.002 (J)			0.0018 (J)
2/24/2017				0.0108	0.0154	
5/9/2017	0.0066 (J)		<0.005			
5/10/2017		0.0016 (J)		0.0054 (J)	0.0152	0.0023 (J)
7/17/2017					0.0136	
7/18/2017	0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)
10/16/2017					0.0242	
10/17/2017	0.003 (J)	0.0028 (J)		0.004 (J)		
10/18/2017			0.0047 (J)			0.0037 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.0127	

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018						0.0047 (J)
8/7/2018	<0.005		0.0016 (J)		0.021	
8/8/2018		0.0025 (J)		0.0041 (J)		
2/25/2019						0.0051 (J)
2/26/2019	0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024	
6/12/2019		0.0034 (J)		0.0029 (J)		
6/13/2019	<0.005		0.0089 (J)		0.027	0.0048 (J)
8/19/2019				0.003 (J)		
8/20/2019	0.0022 (J)	0.0032 (J)				0.0039 (J)
8/21/2019			0.004 (J)		0.037	
10/8/2019						0.0031 (J)
10/9/2019	0.0023 (J)	0.0026 (J)			0.034	
10/10/2019			0.0021 (J)	0.0024 (J)		
3/17/2020	0.0017 (J)		0.0096 (J)			0.0026 (J)
3/18/2020		0.0032 (J)		0.0046 (J)	0.028	
8/27/2020	0.011				0.021	0.0027 (J)
8/28/2020		0.0037 (J)	0.0045 (J)	0.0031 (J)		
9/22/2020	0.012	0.0056 (J)	0.0091 (J)	0.0032 (J)		
9/23/2020					0.026	0.0031 (J)
3/1/2021	0.011	0.0043 (J)		0.0041 (J)		
3/2/2021			0.012		0.019	
3/3/2021						0.002 (J)
8/18/2021	0.019	0.0042 (J)	0.017	0.0046 (J)	0.017	0.0016 (J)
2/8/2022	0.02		0.0091	0.0044 (J)		<0.005
2/9/2022		0.0042 (J)			0.017	
8/30/2022	0.03		0.0068	0.0038 (J)	0.019	<0.005
8/31/2022		0.0042 (J)				
Mean	0.007041	0.004035	0.005724	0.006071	0.02116	0.004134
Std. Dev.	0.006342	0.001197	0.003261	0.003502	0.008738	0.001251
Upper Lim.	0.0066	0.005	0.0057	0.0054	0.02517	0.005
Lower Lim.	0.0039	0.0032	0.0045	0.0041	0.01716	0.0037

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	<0.001
3/5/2012		<0.001
3/6/2012	<0.001	
9/5/2012		<0.001
9/11/2012	<0.001	
2/5/2013		<0.001
2/6/2013	<0.001	
8/13/2013	<0.001	
8/14/2013		<0.001
2/4/2014	<0.001	
2/5/2014		<0.001
8/4/2014		<0.001
2/2/2015	<0.001	
2/3/2015		<0.001
2/16/2016		<0.001
2/17/2016	7E-05 (J)	
8/31/2016	<0.001	
9/1/2016		<0.001
11/28/2016	<0.001	
12/1/2016		<0.001
2/22/2017	<0.001	
2/24/2017		<0.001
5/10/2017	<0.001	<0.001
7/17/2017		<0.001
7/18/2017	<0.001	
10/16/2017		<0.001
10/17/2017	<0.001	
2/20/2018	<0.001	
2/21/2018		<0.001
8/7/2018		<0.001
8/8/2018	<0.001	
2/26/2019	<0.001	<0.001
6/12/2019	<0.001	
6/13/2019		<0.001
8/20/2019	<0.001	
8/21/2019		5.3E-05 (J)
10/9/2019	<0.001	<0.001
3/18/2020	<0.001	<0.001
8/27/2020		<0.001
8/28/2020	<0.001	
9/22/2020	<0.001	
9/23/2020		<0.001
3/1/2021	<0.001	
3/2/2021		<0.001
8/18/2021	<0.001	<0.001
2/9/2022	<0.001	<0.001
8/30/2022		<0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
8/31/2022	<0.001	
Mean	0.0009709	0.0009662
Std. Dev.	0.0001644	0.000179
Upper Lim.	0.001	0.001
Lower Lim.	0.001	5.3E-05

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